

Appendix B
Air Quality Data

Air Quality and GHG Appendix

Year 2012/2014, Year 2020 and Year 2035 Land Use Data
(Provided by DKS Associates Based on Region-Wide Employment Data)

LU	Description		(5)	(8)	(90)
			17,808	19,149	32,474
			DU12	DU20	DU35
RE	Rural Estates	SF	107	107	113
RR	Rural Residential	SF	305	305	375
LR	Low Density Residential	SF	8453	8,528	9,707
MR	Medium Density Residential	SF	3665	3,716	4,911
HR	High Density Residential	MF	3226	3,451	5,257
HRR	High Rise Residential	MF	6	6	50
			0	-	-
MU	Mixed Use	MU	0	-	-
RMU	Riverfront Mixed Use	RMU	1009	1,999	8,687
			-	-	-
NC	Neighborhood Commercial		31	31	260
CC	Community Commercial		276	276	801
HSC	Highway Service Commercial		-	-	-
WRC	Water Related Commercial		-	-	-
GC	General Commercial		52	52	320
CBD	Central Business District		296	296	939
			-	-	-
O	Office		-	-	-
BP	Business Park		-	-	-
			-	-	-
MCI	Mixed Commercial Industrial		-	-	-
LI	Light Industrial		320	320	834
HI	Heavy Industrial		2	2	2
WRI	Water Related Industrial		-	-	-
			-	-	-
PQP	Public Quasi Public		3	3	17
RP	Recreation and Parks		1	1	85
			-	-	-
AG	Agriculture	SF	46	46	44
OS	Open Space		10	10	72

				Citywide Total					
		Assumptions		Employment			Resultant Square Footage		
EMP	Gen	SF/EMP	KSF/EMP	2012	2020	2035	2012	2020	2035
EMPEDU_P	Education	1250	12.5	1,001	1,001	1,569	1,250,713	1,250,713	1,961,238
EMPFODP	Retail	100	1.0	1,458	1,498	2,147	145,824	149,756	214,735
EMPGOV_P	Office	300	3.0	1,598	1,690	5,031	479,418	507,072	1,509,237
EMPOFC_P	Office	300	3.0	4,929	5,314	13,985	1,478,712	1,594,212	4,195,395
EMPOTH_P	Other	800	8.0	-	-	-	-	-	-
EMPRET_P	Retail	500	5.0	2,615	2,772	4,384	1,307,390	1,386,240	2,191,815
EMPSVC_P	Retail	300	3.0	3,443	3,909	9,288	1,032,762	1,172,592	2,786,430
EMPMED_P	Office	300	3.0	616	687	1,867	184,914	206,079	559,977
EMPIND_P	Industrial	800	8.0	9,548	10,219	15,364	time	8,175,184	12,291,536
Total				25,208	27,089	53,635	5,879,733	14,441,848	25,710,363

**CalEEMod Land Use Assumptions
(Based on DKS Land Use Data)**

CalEEMod Input Data - Existing

		Existing			
CalEEMod Inputs	Land Use Sub Type	Unit Amount	Size metric		
Commercial	Government Office Building	479	1000 Sqft		
Commercial	General Office Building	1,479	1000 Sqft		Included all "EMPOFC_P" as general office building
Commercial	Medical Office Building	184.91	1000 Sqft		
Recreational	Fast Food w Drive through	72.91	1000 Sqft	145.824	Note: EMPFOODP, split between fast foot and high-turn over restaurants (under recreational)
Recreational	High turnover restaurant	72.91	1000 Sqft		
Industrial	Industrial Park	7,638.44	1000 Sqft		Included all EMPIND_P as industrial park
Retail	Supermarket	653.70	1000 Sqft	1307.390	EMPRET_P divided by two
Retail	Free Standing Discount Store	653.70	1000 Sqft		EMPRET_P divided by two
Retail	Strip Mall	516.38	1000 Sqft	1032.76	EMPSVC_P divided by two
Retail	Home Improvement Super Store	516.38	1000 Sqft		EMPSVC_P divided by two
<i>Residential</i>	<i>Single Family Housing</i>	<i>107</i>	<i>DU</i>	<i>SF</i>	<i>Rural Estates</i>
<i>Residential</i>	<i>Single Family Housing</i>	<i>305</i>	<i>DU</i>	<i>SF</i>	<i>Rural Residential</i>
<i>Residential</i>	<i>Single Family Housing</i>	<i>8453</i>	<i>DU</i>	<i>SF</i>	<i>Low Density Residential</i>
<i>Residential</i>	<i>Condo/Townhouse</i>	<i>3665</i>	<i>DU</i>	<i>SF</i>	<i>Medium Density Residential</i>
<i>Residential</i>	<i>Apartment Low Rise</i>	<i>3226</i>	<i>DU</i>	<i>MF</i>	<i>High Density Residential (5257 DUS)</i>
<i>Residential</i>	<i>Apartment Mid Rise</i>	<i>6</i>	<i>DU</i>	<i>MF</i>	<i>High Rise Residential</i>
<i>Residential</i>	<i>Apartments Mid Rise</i>	<i>1009</i>	<i>DU</i>	<i>MF</i>	<i>Riverfront Mixed Use</i>
Educational	High School	367.86	1000 Sqft		based on calculations from "schools" tab
Educational	Elementary School	882.86	1000 Sqft		based on calculations from "schools" tab

PQP and RP Don't Use

Residential Totals	Single Family Housing	8865
	Condo/Townhouse	3665
	Apartment Low Rise	3226
	Apartment Mid Rise	1015

Residential *Single Family Housing* 1,037.00 New total Single Fam --> 9,902.00 **Additional Single Family DUs from other land use types (including light industry, agriculture, etc., from DKS LU data based on SACOG info)*

Total Residential 17808

CalEEMod Input Data - Year 2020

Year 2020

CalEEMod Inputs	Land Use Sub Type	Unit Amount	Size metric			
Commercial	Government Office Building	507.07	1000 Sqft			
Commercial	General Office Building	1,594.21	1000 Sqft			Included all "EMPOFC_P" as general office building
Commercial	Medical Office Building	206.08	1000 Sqft			
Recreational	Fast Food w Drive through	74.88	1000 Sqft	149.756		Note: EMPfood, split between fast foot and high-turn over restaurants (under recreational)
Recreational	High turnover restaurant	74.88	1000 Sqft			Note: EMPfood, split between fast foot and high-turn over restaurants (under recreational)
Industrial	Industrial Park	8,175.18	1000 Sqft			Included all EMPIND_P as industrial park
Retail	Supermarket	693.12	1000 Sqft	693.120		EMPRET_P divided by two
Retail	Free Standing Discount Store	693.12	1000 Sqft			EMPRET_P divided by two
Retail	Strip Mall	586.30	1000 Sqft	586.296		EMPSVC_P divided by two
Retail	Home Improvement Super Store	586.30	1000 Sqft			EMPSVC_P divided by two
<i>Residential</i>	<i>Single Family Housing</i>	<i>107</i>	<i>DU</i>	<i>SF</i>		<i>Rural Estates</i>
<i>Residential</i>	<i>Single Family Housing</i>	<i>305</i>	<i>DU</i>	<i>SF</i>		<i>Rural Residential</i>
<i>Residential</i>	<i>Single Family Housing</i>	<i>8528</i>	<i>DU</i>	<i>SF</i>		<i>Low Density Residential</i>
<i>Residential</i>	<i>Condo/Townhouse</i>	<i>3716</i>	<i>DU</i>	<i>SF</i>		<i>Medium Density Residential</i>
<i>Residential</i>	<i>Apartment Low Rise</i>	<i>3451</i>	<i>DU</i>	<i>MF</i>		<i>High Density Residential (5257 DUS)</i>
<i>Residential</i>	<i>Apartment Mid Rise</i>	<i>6</i>	<i>DU</i>	<i>MF</i>		<i>High Rise Residential</i>
<i>Residential</i>	<i>Apartments Mid Rise</i>	<i>1999</i>	<i>DU</i>	<i>MF</i>		<i>Riverfront Mixed Use</i>
Educational	High School	591.00	1000 Sqft			Same as 2035 because only one "Future" scenario - which was 2019
Educational	Elementary School	1,370.23	1000 Sqft			Same as 2035 because only one "Future" scenario - which was 2019
PQP and RP	Don't Use					
Residential Totals	Single Family Housing	8940				
	Condo/Townhouse	3716				
	Apartment Low Rise	3451				
	Apartment Mid Rise	2005				
Residential	Single Family Housing	1037	New total Single Fam -->	9,977.00		<i>*Additional Single Family DUs from other land use types (including light industry, agriculture, etc., from DKS LU data based on SACOG info)</i>
	Total Residential	19149				

CalEEMod Input Data - Year 2035

Year 2035

CalEEMod Inputs	Land Use Sub Type	Unit Amount	Size metric			
Commercial	Government Office Building	1,509.24	1000 Sqft			
Commercial	General Office Building	4195.935	1000 Sqft			Included all "EMPOFC_P" as general office building
Commercial	Medical Office Building	560	1000 Sqft			
Recreational	Fast Food w Drive through	107.37	1000 Sqft			Note: EMPfood, split between fast foot and high-turn over restaurants (under recreational)
Recreational	High turnover restaurant	107.37	1000 Sqft			
Industrial	Industrial Park	12,291.54	1000 Sqft			
Retail	Supermarket	1,095.91	1000 Sqft	2191.815	EMPRET_P divided by two	
Retail	Free Standing Discount Store	1,095.91	1000 Sqft		EMPRET_P divided by two	
Retail	Strip Mall	1,393.22	1000 Sqft	2786.430	EMPSVC_P divided by two	
Retail	Home Improvement Super Store	1,393.22	1000 Sqft		EMPSVC_P divided by two	
Residential	Single Family Housing	113	DU	SF		Rural Estates
Residential	Single Family Housing	375	DU	SF		Rural Residential
Residential	Single Family Housing	9707	DU	SF		Low Density Residential
Residential	Condo/Townhouse	4911	DU	SF		Medium Density Residential
Residential	Apartment Low Rise	5258	DU	MF		High Density Residential (5257 DUS)
Residential	Apartment Mid Rise	50	DU	MF		High Rise Residential
Residential	Apartments Mid Rise	8687	DU	MF		Riverfront Mixed Use
Educational	High School	591.00	1000 Sqft			Same as 2020 because only one "Future" scenario - which was 2019
Educational	Elementary School	1,370.23	1000 Sqft			Same as 2020 because only one "Future" scenario - which was 2019
PQP and RP	Don't Use					
Residential Totals	Single Family Housing	10195				
	Condo/Townhouse	4911				
	Apartment Low Rise	5258				
	Apartment Mid Rise	8737				
Residential	Single Family Housing	3374	New total Single Fam -->	13,569.00		<i>*Additional Single Family DUs from other land use types (including light industry, agriculture, etc., from DKS LU data based on SACOG info)</i>
	Total Residential	32475		29101		

Calculate SF of Schools Based on Enrollment Data

School	Grades	Address	Current/Projected Enrollment ^a	Projected Enrollment	Capacity
Bridgeway Island Elementary	K-8	3255 Half Moon Bay Cir.	966	1008	1,052
Elkhorn Village Elementary	K-8	750 Cummins Wy	568	569	830
Bryte Elementary	K-2	637 Todhunter Ave.			
Riverbank Elementary	K-8	1100 Carrie St.	836	804	1,085
Southport Elementary	K-8	2747 Linden Rd.	842	881	999
Stonegate Elementary	K-8	2500 La Jolla St.	794	906	992
Westfield Village Elementary	K-5	508 Poplar Ave.	416	379	615
Westmore Oaks Elementary	K-8	1100 Clarendon St.	833	994	1,297
Evergreen Middle	4-10		25	28	215 Note: didn't include in HS calcs
River City High School	9-12	1 Raider Lane	2,070	2263	2,706 HS
Washington Adult School		919 Westacre Rd.			
Yolo Education Center (Continuation HS)		919 Westacre Rd.	130	139	575 HS
West Sacramento Early College Prep Charter	6-8	1504 Fallbrook St.	http://www.westsacprep.org/		
			Opened fall 2015. Currently serving		
Lighthouse Charter School	K-2	1500 Park Blvd.	K-2 with plans to add a grade per year until		NA
		1511 Delaware Ave.	K-8.		

Source: Washington Unified School District 2014.

^a Current enrollment is based on 2014-2015; projected enrollment is based on year 2019/2020.

	Existing	Future
Total Students	7480	7971
HS students	2,200	2,402
"Elementary School" for CalEEMod	5,280	5,569
Total Sqft	1,250,712.50	1,961,237.50
Ratio of HS to Elemn	0.294117647	0.301342366
	Existing (2012)	Future (2035 and 2020 estimate, although future is based on 2019)
Multiply Total Sqft by Ratio = HS sqft	367,856.62	591,003.95
Subtract HS sqft from Total Sqft = Element SF	882,855.88	1,370,233.55

CalEEMod Outputs - West Sacramento General Plan

**CalEEMod Outputs - West Sacramento General Plan
Existing Annual**

West Sac General Plan - 2014
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,478.71	1000sqft	33.95	1,478,710.00	0
Government Office Building	479.42	1000sqft	11.01	479,420.00	0
Medical Office Building	184.91	1000sqft	4.24	184,910.00	0
Elementary School	882.86	1000sqft	20.27	882,860.00	0
High School	367.86	1000sqft	8.44	367,860.00	0
Industrial Park	7,638.44	1000sqft	175.35	7,638,440.00	0
Fast Food Restaurant with Drive Thru	72.91	1000sqft	1.67	72,910.00	0
High Turnover (Sit Down Restaurant)	72.91	1000sqft	1.67	72,910.00	0
Apartments Low Rise	3,226.00	Dwelling Unit	201.63	3,226,000.00	9226
Apartments Mid Rise	1,015.00	Dwelling Unit	26.71	1,015,000.00	2903
Condo/Townhouse	3,665.00	Dwelling Unit	229.06	3,665,000.00	10482
Single Family Housing	9,902.00	Dwelling Unit	3,214.94	17,823,600.00	28320
Free-Standing Discount Superstore	653.70	1000sqft	15.01	653,700.00	0
Supermarket	653.70	1000sqft	15.01	653,700.00	0
Strip Mall	516.38	1000sqft	11.85	516,380.00	0
Home Improvement Superstore	516.38	1000sqft	11.85	516,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year		2014	
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac using DKS provided VMT)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	55.80	0.00

tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,331.010 2	16.7668	1,512.083 6	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.91 08	7,930.788 4	26,325.69 92	17.2065	1.4469	27,135.57 35
Energy	3.7640	32.8867	18.9817	0.2053		2.6006	2.6006		2.6006	2.6006	0.0000	118,216.7 970	118,216.7 970	4.3750	1.4404	118,755.1 919
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	8,747.501 7	0.0000	8,747.501 7	516.9625	0.0000	19,603.71 51
Water						0.0000	0.0000		0.0000	0.0000	1,140.683 0	6,814.839 7	7,955.522 8	117.4672	2.8301	11,299.67 64
Total	1,334.774 2	49.6535	1,531.065 3	0.7500	0.0000	196.7098	196.7098	0.0000	196.7041	196.7041	28,283.09 56	132,962.4 251	161,245.5 207	656.0113	5.7174	176,794.1 570

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,331.010 2	16.7668	1,512.083 6	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.91 08	7,930.788 4	26,325.69 92	17.2065	1.4469	27,135.57 35
Energy	3.7640	32.8867	18.9817	0.2053		2.6006	2.6006		2.6006	2.6006	0.0000	118,216.7 970	118,216.7 970	4.3750	1.4404	118,755.1 919
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	8,747.501 7	0.0000	8,747.501 7	516.9625	0.0000	19,603.71 51
Water						0.0000	0.0000		0.0000	0.0000	1,140.683 0	6,814.839 7	7,955.522 8	117.4459	2.8257	11,297.85 66
Total	1,334.774 2	49.6535	1,531.065 3	0.7500	0.0000	196.7098	196.7098	0.0000	196.7041	196.7041	28,283.09 56	132,962.4 251	161,245.5 207	655.9899	5.7130	176,792.3 372

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463574	0.061821	0.180608	0.156819	0.058166	0.007499	0.018436	0.038959	0.001840	0.001721	0.006978	0.000714	0.002865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	80,966.6006	80,966.6006	3.6611	0.7575	81,278.2971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	80,966.6006	80,966.6006	3.6611	0.7575	81,278.2971
NaturalGas Mitigated	3.7640	32.8867	18.9817	0.2053		2.6006	2.6006		2.6006	2.6006	0.0000	37,250.1964	37,250.1964	0.7140	0.6829	37,476.8948
NaturalGas Unmitigated	3.7640	32.8867	18.9817	0.2053		2.6006	2.6006		2.6006	2.6006	0.0000	37,250.1964	37,250.1964	0.7140	0.6829	37,476.8948

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.01271e+007	0.0546	0.4666	0.1986	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.4223	540.4223	0.0104	9.9100e-003	543.7113
Condo/Townhouse	8.03067e+007	0.4330	3.7004	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992	0.0000	4,285.4739	4,285.4739	0.0821	0.0786	4,311.5545
Elementary School	8.77563e+006	0.0473	0.4302	0.3614	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.3010	468.3010	8.9800e-003	8.5900e-003	471.1510
Fast Food Restaurant with Drive Thru	8.13238e+006	0.0439	0.3987	0.3349	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.9748	433.9748	8.3200e-003	7.9600e-003	436.6159
Free-Standing Discount Superstore	8.03397e+006	0.0433	0.3938	0.3308	2.3600e-003		0.0299	0.0299		0.0299	0.0299	0.0000	428.7234	428.7234	8.2200e-003	7.8600e-003	431.3325
General Office Building	2.55817e+007	0.1379	1.2540	1.0534	7.5200e-003		0.0953	0.0953		0.0953	0.0953	0.0000	1,365.1360	1,365.1360	0.0262	0.0250	1,373.4440
Government Office Building	8.29397e+006	0.0447	0.4066	0.3415	2.4400e-003		0.0309	0.0309		0.0309	0.0309	0.0000	442.5976	442.5976	8.4800e-003	8.1100e-003	445.2912
High School	3.65653e+006	0.0197	0.1792	0.1506	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.1263	195.1263	3.7400e-003	3.5800e-003	196.3138
High Turnover (Sit Down Restaurant)	8.13238e+006	0.0439	0.3987	0.3349	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.9748	433.9748	8.3200e-003	7.9600e-003	436.6159
Home Improvement Superstore	6.34631e+006	0.0342	0.3111	0.2613	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6633	338.6633	6.4900e-003	6.2100e-003	340.7243
Apartments Low Rise	4.37641e+007	0.2360	2.0166	0.8581	0.0129		0.1630	0.1630		0.1630	0.1630	0.0000	2,335.4196	2,335.4196	0.0448	0.0428	2,349.6325
Industrial Park	1.32145e+008	0.7126	6.4777	5.4413	0.0389		0.4923	0.4923		0.4923	0.4923	0.0000	7,051.7611	7,051.7611	0.1352	0.1293	7,094.6769
Medical Office Building	3.19894e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7078	170.7078	3.2700e-003	3.1300e-003	171.7467
Single Family Housing	3.18367e+008	1.7167	14.6698	6.2425	0.0936		1.1861	1.1861		1.1861	1.1861	0.0000	16,989.2663	16,989.2663	0.3256	0.3115	17,092.6601
Strip Mall	6.34631e+006	0.0342	0.3111	0.2613	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6633	338.6633	6.4900e-003	6.2100e-003	340.7243
Supermarket	2.68344e+007	0.1447	1.3154	1.1050	7.8900e-003		0.1000	0.1000		0.1000	0.1000	0.0000	1,431.9850	1,431.9850	0.0275	0.0263	1,440.6998
Total		3.7640	32.8867	18.9817	0.2053		2.6005	2.6005		2.6005	2.6005	0.0000	37,250.1964	37,250.1964	0.7140	0.6829	37,476.8948

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.01271e+007	0.0546	0.4666	0.1986	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.4223	540.4223	0.0104	9.9100e-003	543.7113
Condo/Townhouse	8.03067e+007	0.4330	3.7004	1.5746	0.0236		0.2992	0.2992		0.2992	0.2992	0.0000	4,285.4739	4,285.4739	0.0821	0.0786	4,311.5545
Elementary School	8.77563e+006	0.0473	0.4302	0.3614	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.3010	468.3010	8.9800e-003	8.5900e-003	471.1510
Fast Food Restaurant with Drive Thru	8.13238e+006	0.0439	0.3987	0.3349	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.9748	433.9748	8.3200e-003	7.9600e-003	436.6159
Free-Standing Discount Superstore	8.03397e+006	0.0433	0.3938	0.3308	2.3600e-003		0.0299	0.0299		0.0299	0.0299	0.0000	428.7234	428.7234	8.2200e-003	7.8600e-003	431.3325
General Office Building	2.55817e+007	0.1379	1.2540	1.0534	7.5200e-003		0.0953	0.0953		0.0953	0.0953	0.0000	1,365.1360	1,365.1360	0.0262	0.0250	1,373.4440
Government Office Building	8.29397e+006	0.0447	0.4066	0.3415	2.4400e-003		0.0309	0.0309		0.0309	0.0309	0.0000	442.5976	442.5976	8.4800e-003	8.1100e-003	445.2912
High School	3.65653e+006	0.0197	0.1792	0.1506	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.1263	195.1263	3.7400e-003	3.5800e-003	196.3138
High Turnover (Sit Down Restaurant)	8.13238e+006	0.0439	0.3987	0.3349	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.9748	433.9748	8.3200e-003	7.9600e-003	436.6159
Home Improvement Superstore	6.34631e+006	0.0342	0.3111	0.2613	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6633	338.6633	6.4900e-003	6.2100e-003	340.7243
Industrial Park	1.32145e+008	0.7126	6.4777	5.4413	0.0389		0.4923	0.4923		0.4923	0.4923	0.0000	7,051.7611	7,051.7611	0.1352	0.1293	7,094.6769
Apartments Low Rise	4.37641e+007	0.2360	2.0166	0.8581	0.0129		0.1630	0.1630		0.1630	0.1630	0.0000	2,335.4196	2,335.4196	0.0448	0.0428	2,349.6325
Medical Office Building	3.19894e+006	0.0173	0.1568	0.1317	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.7078	170.7078	3.2700e-003	3.1300e-003	171.7467
Single Family Housing	3.18367e+008	1.7167	14.6698	6.2425	0.0936		1.1861	1.1861		1.1861	1.1861	0.0000	16,989.2663	16,989.2663	0.3256	0.3115	17,092.6601
Strip Mall	6.34631e+006	0.0342	0.3111	0.2613	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6633	338.6633	6.4900e-003	6.2100e-003	340.7243
Supermarket	2.68344e+007	0.1447	1.3154	1.1050	7.8900e-003		0.1000	0.1000		0.1000	0.1000	0.0000	1,431.9850	1,431.9850	0.0275	0.0263	1,440.6998
Total		3.7640	32.8867	18.9817	0.2053		2.6005	2.6005		2.6005	2.6005	0.0000	37,250.1964	37,250.1964	0.7140	0.6829	37,476.8948

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.22274e+007	3,557.1035	0.1608	0.0333	3,570.7972
Apartments Mid Rise	3.67267e+006	1,068.4206	0.0483	0.0100	1,072.5337
Condo/Townhouse	1.6229e+007	4,721.1983	0.2135	0.0442	4,739.3734
Elementary School	5.66796e+006	1,648.8749	0.0746	0.0154	1,655.2226
Fast Food Restaurant with Drive Thru	2.45051e+006	712.8800	0.0322	6.6700e-003	715.6244
Free-Standing Discount Superstore	8.75304e+006	2,546.3606	0.1151	0.0238	2,556.1633
General Office Building	1.65172e+007	4,805.0402	0.2173	0.0450	4,823.5381
Government Office Building	5.35512e+006	1,557.8662	0.0704	0.0146	1,563.8635
High School	2.36166e+006	687.0343	0.0311	6.4300e-003	689.6792
High Turnover (Sit Down Restaurant)	2.45051e+006	712.8800	0.0322	6.6700e-003	715.6244
Home Improvement Superstore	6.91433e+006	2,011.4574	0.0910	0.0188	2,019.2009
Industrial Park	8.53214e+007	24,820.9663	1.1223	0.2322	24,916.5193
Medical Office Building	2.06544e+006	600.8616	0.0272	5.6200e-003	603.1747
Single Family Housing	7.36441e+007	21,423.9261	0.9687	0.2004	21,506.4016
Strip Mall	6.91433e+006	2,011.4574	0.0910	0.0188	2,019.2009
Supermarket	2.77757e+007	8,080.2734	0.3654	0.0756	8,111.3800
Total		80,966.6006	3.6611	0.7575	81,278.2971

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.22274e+007	3,557.1035	0.1608	0.0333	3,570.7972
Apartments Mid Rise	3.67267e+006	1,068.4206	0.0483	0.0100	1,072.5337
Condo/Townhouse	1.6229e+007	4,721.1983	0.2135	0.0442	4,739.3734
Elementary School	5.66796e+006	1,648.8749	0.0746	0.0154	1,655.2226
Fast Food Restaurant with Drive Thru	2.45051e+006	712.8800	0.0322	6.6700e-003	715.6244
Free-Standing Discount Superstore	8.75304e+006	2,546.3606	0.1151	0.0238	2,556.1633
General Office Building	1.65172e+007	4,805.0402	0.2173	0.0450	4,823.5381
Government Office Building	5.35512e+006	1,557.8662	0.0704	0.0146	1,563.8635
High School	2.36166e+006	687.0343	0.0311	6.4300e-003	689.6792
High Turnover (Sit Down Restaurant)	2.45051e+006	712.8800	0.0322	6.6700e-003	715.6244
Home Improvement Superstore	6.91433e+006	2,011.4574	0.0910	0.0188	2,019.2009
Industrial Park	8.53214e+007	24,820.9663	1.1223	0.2322	24,916.5193
Medical Office Building	2.06544e+006	600.8616	0.0272	5.6200e-003	603.1747
Single Family Housing	7.36441e+007	21,423.9261	0.9687	0.2004	21,506.4016
Strip Mall	6.91433e+006	2,011.4574	0.0910	0.0188	2,019.2009
Supermarket	2.77757e+007	8,080.2734	0.3654	0.0756	8,111.3800
Total		80,966.6006	3.6611	0.7575	81,278.2971

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,331.010 2	16.7668	1,512.083 6	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.91 08	7,930.788 4	26,325.69 92	17.2065	1.4469	27,135.57 35
Unmitigated	1,331.010 2	16.7668	1,512.083 6	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.91 08	7,930.788 4	26,325.69 92	17.2065	1.4469	27,135.57 35

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	55.9133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	153.2822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,117.384 2	15.1599	1,376.497 4	0.5377		193.3895	193.3895		193.3839	193.3839	18,394.91 08	7,714.557 3	26,109.46 81	16.9755	1.4469	26,914.49 11
Landscaping	4.4305	1.6069	135.5862	6.9900e-003		0.7197	0.7197		0.7197	0.7197	0.0000	216.2311	216.2311	0.2310	0.0000	221.0824
Total	1,331.010 2	16.7668	1,512.083 6	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.91 08	7,930.788 4	26,325.69 92	17.2065	1.4469	27,135.57 35

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	55.9133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	153.2822					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,117.3842	15.1599	1,376.4974	0.5377		193.3895	193.3895		193.3839	193.3839	18,394.9108	7,714.5573	26,109.4681	16.9755	1.4469	26,914.4911
Landscaping	4.4305	1.6069	135.5862	6.9900e-003		0.7197	0.7197		0.7197	0.7197	0.0000	216.2311	216.2311	0.2310	0.0000	221.0824
Total	1,331.0102	16.7668	1,512.0836	0.5447		194.1093	194.1093		194.1036	194.1036	18,394.9108	7,930.7884	26,325.6992	17.2065	1.4469	27,135.5735

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7,955.5228	117.4459	2.8257	11,297.8566
Unmitigated	7,955.5228	117.4672	2.8301	11,299.6764

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	210.187 / 132.509	532.4619	6.8700	0.1661	728.2155
Apartments Mid Rise	66.1313 / 41.6915	167.5291	2.1615	0.0523	229.1193
Condo/Townhouse	238.79 / 150.541	604.9203	7.8049	0.1887	827.3124
Elementary School	25.6002 / 65.8291	115.4462	0.8390	0.0207	139.4833
Fast Food Restaurant with Drive Thru	22.1306 / 1.41259	43.2957	0.7228	0.0174	63.8575
Free-Standing Discount Superstore	48.4212 / 29.6775	121.8001	1.5826	0.0383	166.8929
General Office Building	262.817 / 161.081	661.0964	8.5900	0.2076	905.8477
Government Office Building	95.2414 / 58.3738	239.5729	3.1129	0.0752	328.2677
High School	12.2147 / 31.4091	55.0830	0.4003	9.8800e-003	66.5518
High Turnover (Sit Down Restaurant)	22.1306 / 1.41259	43.2957	0.7228	0.0174	63.8575
Home Improvement Superstore	38.2496 / 23.4433	96.2140	1.2502	0.0302	131.8344
Industrial Park	1766.39 / 0	3,340.9059	57.6835	1.3851	4,981.6343
Medical Office Building	23.2026 / 4.41954	48.3848	0.7579	0.0182	69.9541
Single Family Housing	645.155 / 406.728	1,634.3576	21.0870	0.5098	2,235.2107
Strip Mall	38.2496 / 23.4433	96.2140	1.2502	0.0302	131.8344
Supermarket	80.5804 / 2.49218	154.9454	2.6316	0.0632	229.8031
Total		7,955.5228	117.4672	2.8302	11,299.6764

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	210.187 / 132.509	532.4619	6.8688	0.1658	728.1091
Apartments Mid Rise	66.1313 / 41.6915	167.5291	2.1611	0.0522	229.0858
Condo/Townhouse	238.79 / 150.541	604.9203	7.8035	0.1884	827.1915
Elementary School	25.6002 / 65.8291	115.4462	0.8389	0.0207	139.4703
Fast Food Restaurant with Drive Thru	22.1306 / 1.41259	43.2957	0.7226	0.0173	63.8463
Free-Standing Discount Superstore	48.4212 / 29.6775	121.8001	1.5823	0.0382	166.8684
General Office Building	262.817 / 161.081	661.0964	8.5885	0.2073	905.7147
Government Office Building	95.2414 / 58.3738	239.5729	3.1123	0.0751	328.2195
High School	12.2147 / 31.4091	55.0830	0.4003	9.8600e-003	66.5456
High Turnover (Sit Down Restaurant)	22.1306 / 1.41259	43.2957	0.7226	0.0173	63.8463
Home Improvement Superstore	38.2496 / 23.4433	96.2140	1.2499	0.0302	131.8151
Industrial Park	1766.39 / 0	3,340.9059	57.6730	1.3829	4,980.7403
Medical Office Building	23.2026 / 4.41954	48.3848	0.7578	0.0182	69.9423
Single Family Housing	645.155 / 406.728	1,634.3576	21.0832	0.5090	2,234.8842
Strip Mall	38.2496 / 23.4433	96.2140	1.2499	0.0302	131.8151
Supermarket	80.5804 / 2.49218	154.9454	2.6311	0.0631	229.7623
Total		7,955.5228	117.4459	2.8257	11,297.8566

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	8,747.5017	516.9625	0.0000	19,603.7151
Mitigated	8,747.5017	516.9625	0.0000	19,603.7151

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1483.96	301.2305	17.8022	0.0000	675.0769
Apartments Mid Rise	466.9	94.7765	5.6011	0.0000	212.4002
Condo/Townhouse	1685.9	342.2225	20.2248	0.0000	766.9426
Elementary School	1147.72	232.9768	13.7685	0.0000	522.1160
Fast Food Restaurant with Drive Thru	839.84	170.4799	10.0751	0.0000	382.0565
Free-Standing Discount Superstore	2811.37	570.6827	33.7264	0.0000	1,278.9367
General Office Building	1375.2	279.1532	16.4975	0.0000	625.6003
Government Office Building	445.86	90.5056	5.3487	0.0000	202.8288
High School	478.22	97.0743	5.7369	0.0000	217.5499
High Turnover (Sit Down Restaurant)	867.63	176.1211	10.4085	0.0000	394.6986
Home Improvement Superstore	5726.22	1,162.3709	68.6942	0.0000	2,604.9481
Industrial Park	9471.67	1,922.6634	113.6262	0.0000	4,308.8126
Medical Office Building	1997.03	405.3790	23.9572	0.0000	908.4806
Single Family Housing	10066.5	2,043.4024	120.7616	0.0000	4,579.3966
Strip Mall	542.2	110.0617	6.5045	0.0000	246.6554
Supermarket	3686.87	748.4013	44.2293	0.0000	1,677.2155
Total		8,747.5017	516.9625	0.0000	19,603.7151

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1483.96	301.2305	17.8022	0.0000	675.0769
Apartments Mid Rise	466.9	94.7765	5.6011	0.0000	212.4002
Condo/Townhouse	1685.9	342.2225	20.2248	0.0000	766.9426
Elementary School	1147.72	232.9768	13.7685	0.0000	522.1160
Fast Food Restaurant with Drive Thru	839.84	170.4799	10.0751	0.0000	382.0565
Free-Standing Discount Superstore	2811.37	570.6827	33.7264	0.0000	1,278.9367
General Office Building	1375.2	279.1532	16.4975	0.0000	625.6003
Government Office Building	445.86	90.5056	5.3487	0.0000	202.8288
High School	478.22	97.0743	5.7369	0.0000	217.5499
High Turnover (Sit Down Restaurant)	867.63	176.1211	10.4085	0.0000	394.6986
Home Improvement Superstore	5726.22	1,162.3709	68.6942	0.0000	2,604.9481
Industrial Park	9471.67	1,922.6634	113.6262	0.0000	4,308.8126
Medical Office Building	1997.03	405.3790	23.9572	0.0000	908.4806
Single Family Housing	10066.5	2,043.4024	120.7616	0.0000	4,579.3966
Strip Mall	542.2	110.0617	6.5045	0.0000	246.6554
Supermarket	3686.87	748.4013	44.2293	0.0000	1,677.2155
Total		8,747.5017	516.9625	0.0000	19,603.7151

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Existing Summer**

West Sac General Plan - 2014
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,478.71	1000sqft	33.95	1,478,710.00	0
Government Office Building	479.42	1000sqft	11.01	479,420.00	0
Medical Office Building	184.91	1000sqft	4.24	184,910.00	0
Elementary School	882.86	1000sqft	20.27	882,860.00	0
High School	367.86	1000sqft	8.44	367,860.00	0
Industrial Park	7,638.44	1000sqft	175.35	7,638,440.00	0
Fast Food Restaurant with Drive Thru	72.91	1000sqft	1.67	72,910.00	0
High Turnover (Sit Down Restaurant)	72.91	1000sqft	1.67	72,910.00	0
Apartments Low Rise	3,226.00	Dwelling Unit	201.63	3,226,000.00	9226
Apartments Mid Rise	1,015.00	Dwelling Unit	26.71	1,015,000.00	2903
Condo/Townhouse	3,665.00	Dwelling Unit	229.06	3,665,000.00	10482
Single Family Housing	9,902.00	Dwelling Unit	3,214.94	17,823,600.00	28320
Free-Standing Discount Superstore	653.70	1000sqft	15.01	653,700.00	0
Supermarket	653.70	1000sqft	15.01	653,700.00	0
Strip Mall	516.38	1000sqft	11.85	516,380.00	0
Home Improvement Superstore	516.38	1000sqft	11.85	516,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year		2014	
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac using DKS provided VMT)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	55.80	0.00

tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608
Energy	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	28,469.4023	567.8089	35,183.6289	14.3163	0.0000	4,739.0644	4,739.0644	0.0000	4,738.9261	4,738.9261	494,558.9809	435,052.6960	929,611.6769	463.5377	43.0257	952,683.9284

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608
Energy	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	28,469.4023	567.8089	35,183.6289	14.3163	0.0000	4,739.0644	4,739.0644	0.0000	4,738.9261	4,738.9261	494,558.9809	435,052.6960	929,611.6769	463.5377	43.0257	952,683.9284

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463574	0.061821	0.180608	0.156819	0.058166	0.007499	0.018436	0.038959	0.001840	0.001721	0.006978	0.000714	0.002865

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
NaturalGas Unmitigated	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	27745.6	0.2992	2.5569	1.0881	0.0163		0.2067	0.2067		0.2067	0.2067		3,264.1844	3,264.1844	0.0626	0.0598	3,284.0497
Condo/Townhouse	220018	2.3728	20.2762	8.6282	0.1294		1.6394	1.6394		1.6394	1.6394		25,884.5276	25,884.5276	0.4961	0.4746	26,042.0566
Elementary School	24042.8	0.2593	2.3571	1.9800	0.0141		0.1791	0.1791		0.1791	0.1791		2,828.5668	2,828.5668	0.0542	0.0519	2,845.7810
Fast Food Restaurant with Drive Thru	22280.5	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Free-Standing Discount Superstore	22010.9	0.2374	2.1579	1.8127	0.0130		0.1640	0.1640		0.1640	0.1640		2,589.5159	2,589.5159	0.0496	0.0475	2,605.2752
General Office Building	70086.8	0.7558	6.8713	5.7719	0.0412		0.5222	0.5222		0.5222	0.5222		8,245.5062	8,245.5062	0.1580	0.1512	8,295.6870
Government Office Building	22723.2	0.2451	2.2278	1.8713	0.0134		0.1693	0.1693		0.1693	0.1693		2,673.3170	2,673.3170	0.0512	0.0490	2,689.5864
High School	10017.9	0.1080	0.9822	0.8250	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,178.5748	1,178.5748	0.0226	0.0216	1,185.7474
High Turnover (Sit Down Restaurant)	22280.5	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Home Improvement Superstore	17387.2	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Apartments Low Rise	119902	1.2931	11.0498	4.7020	0.0705		0.8934	0.8934		0.8934	0.8934		14,106.0788	14,106.0788	0.2704	0.2586	14,191.9261
Industrial Park	362041	3.9044	35.4942	29.8152	0.2130		2.6976	2.6976		2.6976	2.6976		42,593.0740	42,593.0740	0.8164	0.7809	42,852.2883
Medical Office Building	8764.23	0.0945	0.8592	0.7218	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.0856	1,031.0856	0.0198	0.0189	1,037.3606
Single Family Housing	872238	9.4065	80.3827	34.2054	0.5131		6.4990	6.4990		6.4990	6.4990		102,616.2213	102,616.2213	1.9668	1.8813	103,240.7265
Strip Mall	17387.2	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Supermarket	73518.9	0.7929	7.2077	6.0545	0.0433		0.5478	0.5478		0.5478	0.5478		8,649.2780	8,649.2780	0.1658	0.1586	8,701.9161
Total		20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4946	224,993.4946	4.3124	4.1249	226,362.7676

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	27.7456	0.2992	2.5569	1.0881	0.0163		0.2067	0.2067		0.2067	0.2067		3,264.1844	3,264.1844	0.0626	0.0598	3,284.0497
Condo/Townhouse	220.018	2.3728	20.2762	8.6282	0.1294		1.6394	1.6394		1.6394	1.6394		25,884.5276	25,884.5276	0.4961	0.4746	26,042.0566
Elementary School	24.0428	0.2593	2.3571	1.9800	0.0141		0.1791	0.1791		0.1791	0.1791		2,828.5668	2,828.5668	0.0542	0.0519	2,845.7810
Fast Food Restaurant with Drive Thru	22.2805	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Free-Standing Discount Superstore	22.0109	0.2374	2.1579	1.8127	0.0130		0.1640	0.1640		0.1640	0.1640		2,589.5159	2,589.5159	0.0496	0.0475	2,605.2752
General Office Building	70.0868	0.7558	6.8713	5.7719	0.0412		0.5222	0.5222		0.5222	0.5222		8,245.5062	8,245.5062	0.1580	0.1512	8,295.6870
Government Office Building	22.7232	0.2451	2.2278	1.8713	0.0134		0.1693	0.1693		0.1693	0.1693		2,673.3170	2,673.3170	0.0512	0.0490	2,689.5864
High School	10.0179	0.1080	0.9822	0.8250	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,178.5748	1,178.5748	0.0226	0.0216	1,185.7474
High Turnover (Sit Down Restaurant)	22.2805	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Home Improvement Superstore	17.3872	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Industrial Park	362.041	3.9044	35.4942	29.8152	0.2130		2.6976	2.6976		2.6976	2.6976		42,593.0740	42,593.0740	0.8164	0.7809	42,852.2883
Apartments Low Rise	119.902	1.2931	11.0498	4.7020	0.0705		0.8934	0.8934		0.8934	0.8934		14,106.0788	14,106.0788	0.2704	0.2586	14,191.9261
Medical Office Building	8.76423	0.0945	0.8592	0.7218	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.0856	1,031.0856	0.0198	0.0189	1,037.3606
Single Family Housing	872.238	9.4065	80.3827	34.2054	0.5131		6.4990	6.4990		6.4990	6.4990		102,616.2213	102,616.2213	1.9668	1.8813	103,240.7265
Strip Mall	17.3872	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Supermarket	73.5189	0.7929	7.2077	6.0545	0.0433		0.5478	0.5478		0.5478	0.5478		8,649.2780	8,649.2780	0.1658	0.1586	8,701.9161
Total		20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4946	224,993.4946	4.3124	4.1249	226,362.7676

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608
Unmitigated	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	306.3744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	839.9025					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27,253.27 35	369.7540	33,573.10 61	13.1136		4,716.817 8	4,716.817 8		4,716.679 5	4,716.6795	494,558.9 809	207,410.8 235	701,969.8 044	456.3959	38.9008	723,613.3 646
Landscaping	49.2275	17.8539	1,506.513 5	0.0777		7.9970	7.9970		7.9970	7.9970		2,648.377 8	2,648.377 8	2.8295		2,707.796 2
Total	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	306.3744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	839.9025					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27,253.2735	369.7540	33,573.1061	13.1136		4,716.8178	4,716.8178		4,716.6795	4,716.6795	494,558.9809	207,410.8235	701,969.8044	456.3959	38.9008	723,613.3646
Landscaping	49.2275	17.8539	1,506.5135	0.0777		7.9970	7.9970		7.9970	7.9970		2,648.3778	2,648.3778	2.8295		2,707.7962
Total	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Existing Winter**

West Sac General Plan - 2014
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,478.71	1000sqft	33.95	1,478,710.00	0
Government Office Building	479.42	1000sqft	11.01	479,420.00	0
Medical Office Building	184.91	1000sqft	4.24	184,910.00	0
Elementary School	882.86	1000sqft	20.27	882,860.00	0
High School	367.86	1000sqft	8.44	367,860.00	0
Industrial Park	7,638.44	1000sqft	175.35	7,638,440.00	0
Fast Food Restaurant with Drive Thru	72.91	1000sqft	1.67	72,910.00	0
High Turnover (Sit Down Restaurant)	72.91	1000sqft	1.67	72,910.00	0
Apartments Low Rise	3,226.00	Dwelling Unit	201.63	3,226,000.00	9226
Apartments Mid Rise	1,015.00	Dwelling Unit	26.71	1,015,000.00	2903
Condo/Townhouse	3,665.00	Dwelling Unit	229.06	3,665,000.00	10482
Single Family Housing	9,902.00	Dwelling Unit	3,214.94	17,823,600.00	28320
Free-Standing Discount Superstore	653.70	1000sqft	15.01	653,700.00	0
Supermarket	653.70	1000sqft	15.01	653,700.00	0
Strip Mall	516.38	1000sqft	11.85	516,380.00	0
Home Improvement Superstore	516.38	1000sqft	11.85	516,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year		2014	
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac using DKS provided VMT)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	55.80	0.00

tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608
Energy	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	28,469.4023	567.8089	35,183.6289	14.3163	0.0000	4,739.0644	4,739.0644	0.0000	4,738.9261	4,738.9261	494,558.9809	435,052.6960	929,611.6769	463.5377	43.0257	952,683.9284

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608
Energy	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	28,469.4023	567.8089	35,183.6289	14.3163	0.0000	4,739.0644	4,739.0644	0.0000	4,738.9261	4,738.9261	494,558.9809	435,052.6960	929,611.6769	463.5377	43.0257	952,683.9284

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463574	0.061821	0.180608	0.156819	0.058166	0.007499	0.018436	0.038959	0.001840	0.001721	0.006978	0.000714	0.002865

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676
NaturalGas Unmitigated	20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4947	224,993.4947	4.3124	4.1249	226,362.7676

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	27745.6	0.2992	2.5569	1.0881	0.0163		0.2067	0.2067		0.2067	0.2067		3,264.1844	3,264.1844	0.0626	0.0598	3,284.0497
Condo/Townhouse	220018	2.3728	20.2762	8.6282	0.1294		1.6394	1.6394		1.6394	1.6394		25,884.5276	25,884.5276	0.4961	0.4746	26,042.0566
Elementary School	24042.8	0.2593	2.3571	1.9800	0.0141		0.1791	0.1791		0.1791	0.1791		2,828.5668	2,828.5668	0.0542	0.0519	2,845.7810
Fast Food Restaurant with Drive Thru	22280.5	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Free-Standing Discount Superstore	22010.9	0.2374	2.1579	1.8127	0.0130		0.1640	0.1640		0.1640	0.1640		2,589.5159	2,589.5159	0.0496	0.0475	2,605.2752
General Office Building	70086.8	0.7558	6.8713	5.7719	0.0412		0.5222	0.5222		0.5222	0.5222		8,245.5062	8,245.5062	0.1580	0.1512	8,295.6870
Government Office Building	22723.2	0.2451	2.2278	1.8713	0.0134		0.1693	0.1693		0.1693	0.1693		2,673.3170	2,673.3170	0.0512	0.0490	2,689.5864
High School	10017.9	0.1080	0.9822	0.8250	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,178.5748	1,178.5748	0.0226	0.0216	1,185.7474
High Turnover (Sit Down Restaurant)	22280.5	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Home Improvement Superstore	17387.2	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Apartments Low Rise	119902	1.2931	11.0498	4.7020	0.0705		0.8934	0.8934		0.8934	0.8934		14,106.0788	14,106.0788	0.2704	0.2586	14,191.9261
Industrial Park	362041	3.9044	35.4942	29.8152	0.2130		2.6976	2.6976		2.6976	2.6976		42,593.0740	42,593.0740	0.8164	0.7809	42,852.2883
Medical Office Building	8764.23	0.0945	0.8592	0.7218	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.0856	1,031.0856	0.0198	0.0189	1,037.3606
Single Family Housing	872238	9.4065	80.3827	34.2054	0.5131		6.4990	6.4990		6.4990	6.4990		102,616.2213	102,616.2213	1.9668	1.8813	103,240.7265
Strip Mall	17387.2	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Supermarket	73518.9	0.7929	7.2077	6.0545	0.0433		0.5478	0.5478		0.5478	0.5478		8,649.2780	8,649.2780	0.1658	0.1586	8,701.9161
Total		20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4946	224,993.4946	4.3124	4.1249	226,362.7676

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	27.7456	0.2992	2.5569	1.0881	0.0163		0.2067	0.2067		0.2067	0.2067		3,264.1844	3,264.1844	0.0626	0.0598	3,284.0497
Condo/Townhouse	220.018	2.3728	20.2762	8.6282	0.1294		1.6394	1.6394		1.6394	1.6394		25,884.5276	25,884.5276	0.4961	0.4746	26,042.0566
Elementary School	24.0428	0.2593	2.3571	1.9800	0.0141		0.1791	0.1791		0.1791	0.1791		2,828.5668	2,828.5668	0.0542	0.0519	2,845.7810
Fast Food Restaurant with Drive Thru	22.2805	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Free-Standing Discount Superstore	22.0109	0.2374	2.1579	1.8127	0.0130		0.1640	0.1640		0.1640	0.1640		2,589.5159	2,589.5159	0.0496	0.0475	2,605.2752
General Office Building	70.0868	0.7558	6.8713	5.7719	0.0412		0.5222	0.5222		0.5222	0.5222		8,245.5062	8,245.5062	0.1580	0.1512	8,295.6870
Government Office Building	22.7232	0.2451	2.2278	1.8713	0.0134		0.1693	0.1693		0.1693	0.1693		2,673.3170	2,673.3170	0.0512	0.0490	2,689.5864
High School	10.0179	0.1080	0.9822	0.8250	5.8900e-003		0.0746	0.0746		0.0746	0.0746		1,178.5748	1,178.5748	0.0226	0.0216	1,185.7474
High Turnover (Sit Down Restaurant)	22.2805	0.2403	2.1844	1.8349	0.0131		0.1660	0.1660		0.1660	0.1660		2,621.2349	2,621.2349	0.0502	0.0481	2,637.1873
Home Improvement Superstore	17.3872	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Apartments Low Rise	119.902	1.2931	11.0498	4.7020	0.0705		0.8934	0.8934		0.8934	0.8934		14,106.0788	14,106.0788	0.2704	0.2586	14,191.9261
Industrial Park	362.041	3.9044	35.4942	29.8152	0.2130		2.6976	2.6976		2.6976	2.6976		42,593.0740	42,593.0740	0.8164	0.7809	42,852.2883
Medical Office Building	8.76423	0.0945	0.8592	0.7218	5.1600e-003		0.0653	0.0653		0.0653	0.0653		1,031.0856	1,031.0856	0.0198	0.0189	1,037.3606
Single Family Housing	872.238	9.4065	80.3827	34.2054	0.5131		6.4990	6.4990		6.4990	6.4990		102,616.2213	102,616.2213	1.9668	1.8813	103,240.7265
Strip Mall	17.3872	0.1875	1.7046	1.4319	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.5472	2,045.5472	0.0392	0.0375	2,057.9961
Supermarket	73.5189	0.7929	7.2077	6.0545	0.0433		0.5478	0.5478		0.5478	0.5478		8,649.2780	8,649.2780	0.1658	0.1586	8,701.9161
Total		20.6244	180.2010	104.0094	1.1250		14.2496	14.2496		14.2496	14.2496		224,993.4946	224,993.4946	4.3124	4.1249	226,362.7676

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608
Unmitigated	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	306.3744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	839.9025					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27,253.27 35	369.7540	33,573.10 61	13.1136		4,716.817 8	4,716.817 8		4,716.679 5	4,716.6795	494,558.9 809	207,410.8 235	701,969.8 044	456.3959	38.9008	723,613.3 646
Landscaping	49.2275	17.8539	1,506.513 5	0.0777		7.9970	7.9970		7.9970	7.9970		2,648.377 8	2,648.377 8	2.8295		2,707.796 2
Total	28,448.77 79	387.6079	35,079.61 95	13.1913		4,724.814 8	4,724.814 8		4,724.676 5	4,724.6765	494,558.9 809	210,059.2 014	704,618.1 822	459.2253	38.9008	726,321.1 608

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	306.3744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	839.9025					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27,253.2735	369.7540	33,573.1061	13.1136		4,716.8178	4,716.8178		4,716.6795	4,716.6795	494,558.9809	207,410.8235	701,969.8044	456.3959	38.9008	723,613.3646
Landscaping	49.2275	17.8539	1,506.5135	0.0777		7.9970	7.9970		7.9970	7.9970		2,648.3778	2,648.3778	2.8295		2,707.7962
Total	28,448.7779	387.6079	35,079.6195	13.1913		4,724.8148	4,724.8148		4,724.6765	4,724.6765	494,558.9809	210,059.2014	704,618.1822	459.2253	38.9008	726,321.1608

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2020 Annual**

West Sac General Plan - 2020
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,594.21	1000sqft	36.60	1,594,212.00	0
Government Office Building	507.07	1000sqft	11.64	507,070.00	0
Medical Office Building	206.08	1000sqft	4.73	206,080.00	0
Office Park	1,376.68	1000sqft	31.60	1,376,680.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	8,175.18	1000sqft	187.68	8,175,180.00	0
Fast Food Restaurant with Drive Thru	74.88	1000sqft	1.72	74,880.00	0
High Turnover (Sit Down Restaurant)	74.88	1000sqft	1.72	74,880.00	0
Apartments Low Rise	3,451.00	Dwelling Unit	215.69	3,451,000.00	9870
Apartments Mid Rise	2,005.00	Dwelling Unit	52.76	2,005,000.00	5734
Condo/Townhouse	3,716.00	Dwelling Unit	232.25	3,716,000.00	10628
Single Family Housing	9,977.00	Dwelling Unit	3,239.29	17,958,600.00	28534
Free-Standing Discount Superstore	693.12	1000sqft	15.91	693,120.00	0
Supermarket	693.12	1000sqft	15.91	693,120.00	0
Strip Mall	586.30	1000sqft	13.46	586,300.00	0
Home Improvement Superstore	586.30	1000sqft	13.46	586,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year			2020

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00

tblLandUse	LandUseSquareFeet	1,594,210.00	1,594,212.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00

tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615
Energy	4.0644	35.5694	20.9209	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	132,202.9821	132,202.9821	4.9300	1.5979	132,801.8679
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	9,798.2824	0.0000	9,798.2824	579.0619	0.0000	21,958.5824
Water						0.0000	0.0000		0.0000	0.0000	1,307.4722	7,932.8487	9,240.3209	134.6486	3.2451	13,073.9201
Total	1,442.0562	53.5223	1,643.8819	0.8074	0.0000	211.5455	211.5455	0.0000	211.5394	211.5394	30,885.8617	148,663.8689	179,549.7305	737.1216	6.3989	197,012.9319

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615
Energy	4.0644	35.5694	20.9209	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	132,202.9821	132,202.9821	4.9300	1.5979	132,801.8679
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	9,798.2824	0.0000	9,798.2824	579.0619	0.0000	21,958.5824
Water						0.0000	0.0000		0.0000	0.0000	1,307.4722	7,932.8487	9,240.3209	134.6241	3.2400	13,071.8342
Total	1,442.0562	53.5223	1,643.8819	0.8074	0.0000	211.5455	211.5455	0.0000	211.5394	211.5394	30,885.8617	148,663.8689	179,549.7305	737.0971	6.3938	197,010.8460

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.461412	0.061542	0.181462	0.153657	0.057057	0.007302	0.019991	0.043491	0.001830	0.001664	0.007061	0.000672	0.002859

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	91,979.6299	91,979.6299	4.1591	0.8605	92,333.7232
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	91,979.6299	91,979.6299	4.1591	0.8605	92,333.7232
NaturalGas Mitigated	4.0644	35.5694	20.9209	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	40,223.3522	40,223.3522	0.7710	0.7374	40,468.1448
NaturalGas Unmitigated	4.0644	35.5694	20.9209	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	40,223.3522	40,223.3522	0.7710	0.7374	40,468.1448

5.2 Energy by Land Use - NaturalGas
Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.00048e+007	0.1079	0.9218	0.3923	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,067.5338	1,067.5338	0.0205	0.0196	1,074.0306
Condo/Townhouse	8.14242e+007	0.4391	3.7519	1.5966	0.0240		0.3034	0.3034		0.3034	0.3034	0.0000	4,345.1080	4,345.1080	0.0833	0.0797	4,371.5516
Elementary School	1.36201e+007	0.0734	0.6677	0.5608	4.0100e-003		0.0507	0.0507		0.0507	0.0507	0.0000	726.8197	726.8197	0.0139	0.0133	731.2430
Fast Food Restaurant with Drive Thru	8.35212e+006	0.0450	0.4094	0.3439	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.7007	445.7007	8.5400e-003	8.1700e-003	448.4131
Free-Standing Discount Superstore	8.51844e+006	0.0459	0.4176	0.3508	2.5100e-003		0.0317	0.0317		0.0317	0.0317	0.0000	454.5767	454.5767	8.7100e-003	8.3300e-003	457.3431
General Office Building	2.75799e+007	0.1487	1.3520	1.1356	8.1100e-003		0.1028	0.1028		0.1028	0.1028	0.0000	1,471.7668	1,471.7668	0.0282	0.0270	1,480.7237
Government Office Building	8.77231e+006	0.0473	0.4300	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.1239	468.1239	8.9700e-003	8.5800e-003	470.9729
High School	5.87454e+006	0.0317	0.2880	0.2419	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.4878	313.4878	6.0100e-003	5.7500e-003	315.3957
High Turnover (Sit Down Restaurant)	8.35212e+006	0.0450	0.4094	0.3439	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.7007	445.7007	8.5400e-003	8.1700e-003	448.4131
Home Improvement Superstore	7.20563e+006	0.0389	0.3532	0.2967	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.5197	384.5197	7.3700e-003	7.0500e-003	386.8598
Apartments Low Rise	4.68165e+007	0.2524	2.1572	0.9180	0.0138		0.1744	0.1744		0.1744	0.1744	0.0000	2,498.3053	2,498.3053	0.0479	0.0458	2,513.5096
Industrial Park	1.41431e+008	0.7626	6.9329	5.8236	0.0416		0.5269	0.5269		0.5269	0.5269	0.0000	7,547.2762	7,547.2762	0.1447	0.1384	7,593.2076
Medical Office Building	3.56518e+006	0.0192	0.1748	0.1468	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.2518	190.2518	3.6500e-003	3.4900e-003	191.4096
Office Park	1.58043e+007	0.0852	0.7747	0.6508	4.6500e-003		0.0589	0.0589		0.0589	0.0589	0.0000	843.3769	843.3769	0.0162	0.0155	848.5096
Single Family Housing	3.20778e+008	1.7297	14.7810	6.2898	0.0944		1.1951	1.1951		1.1951	1.1951	0.0000	17,117.9469	17,117.9469	0.3281	0.3138	17,222.1238
Strip Mall	7.20563e+006	0.0389	0.3532	0.2967	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.5197	384.5197	7.3700e-003	7.0500e-003	386.8598
Supermarket	2.84526e+007	0.1534	1.3947	1.1716	8.3700e-003		0.1060	0.1060		0.1060	0.1060	0.0000	1,518.3378	1,518.3378	0.0291	0.0278	1,527.5782
Total		4.0644	35.5694	20.9208	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	40,223.3522	40,223.3522	0.7709	0.7374	40,468.1448

5.2 Energy by Land Use - Natural Gas
Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.00048e+007	0.1079	0.9218	0.3923	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,067.5338	1,067.5338	0.0205	0.0196	1,074.0306
Condo/Townhouse	8.14242e+007	0.4391	3.7519	1.5966	0.0240		0.3034	0.3034		0.3034	0.3034	0.0000	4,345.1080	4,345.1080	0.0833	0.0797	4,371.5516
Elementary School	1.36201e+007	0.0734	0.6677	0.5608	4.0100e-003		0.0507	0.0507		0.0507	0.0507	0.0000	726.8197	726.8197	0.0139	0.0133	731.2430
Fast Food Restaurant with Drive Thru	8.35212e+006	0.0450	0.4094	0.3439	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.7007	445.7007	8.5400e-003	8.1700e-003	448.4131
Free-Standing Discount Superstore	8.51844e+006	0.0459	0.4176	0.3508	2.5100e-003		0.0317	0.0317		0.0317	0.0317	0.0000	454.5767	454.5767	8.7100e-003	8.3300e-003	457.3431
General Office Building	2.75799e+007	0.1487	1.3520	1.1356	8.1100e-003		0.1028	0.1028		0.1028	0.1028	0.0000	1,471.7668	1,471.7668	0.0282	0.0270	1,480.7237
Government Office Building	8.77231e+006	0.0473	0.4300	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.1239	468.1239	8.9700e-003	8.5800e-003	470.9729
High School	5.87454e+006	0.0317	0.2880	0.2419	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.4878	313.4878	6.0100e-003	5.7500e-003	315.3957
High Turnover (Sit Down Restaurant)	8.35212e+006	0.0450	0.4094	0.3439	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.7007	445.7007	8.5400e-003	8.1700e-003	448.4131
Home Improvement Superstore	7.20563e+006	0.0389	0.3532	0.2967	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.5197	384.5197	7.3700e-003	7.0500e-003	386.8598
Industrial Park	1.41431e+008	0.7626	6.9329	5.8236	0.0416		0.5269	0.5269		0.5269	0.5269	0.0000	7,547.2762	7,547.2762	0.1447	0.1384	7,593.2076
Apartments Low Rise	4.68165e+007	0.2524	2.1572	0.9180	0.0138		0.1744	0.1744		0.1744	0.1744	0.0000	2,498.3053	2,498.3053	0.0479	0.0458	2,513.5096
Medical Office Building	3.56518e+006	0.0192	0.1748	0.1468	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.2518	190.2518	3.6500e-003	3.4900e-003	191.4096
Office Park	1.58043e+007	0.0852	0.7747	0.6508	4.6500e-003		0.0589	0.0589		0.0589	0.0589	0.0000	843.3769	843.3769	0.0162	0.0155	848.5096
Single Family Housing	3.20778e+008	1.7297	14.7810	6.2898	0.0944		1.1951	1.1951		1.1951	1.1951	0.0000	17,117.9469	17,117.9469	0.3281	0.3138	17,222.1238
Strip Mall	7.20563e+006	0.0389	0.3532	0.2967	2.1200e-003		0.0268	0.0268		0.0268	0.0268	0.0000	384.5197	384.5197	7.3700e-003	7.0500e-003	386.8598
Supermarket	2.84526e+007	0.1534	1.3947	1.1716	8.3700e-003		0.1060	0.1060		0.1060	0.1060	0.0000	1,518.3378	1,518.3378	0.0291	0.0278	1,527.5782
Total		4.0644	35.5694	20.9208	0.2217		2.8081	2.8081		2.8081	2.8081	0.0000	40,223.3522	40,223.3522	0.7709	0.7374	40,468.1448

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.30803e+007	3,805.1965	0.1721	0.0356	3,819.8454
Apartments Mid Rise	7.25487e+006	2,110.5254	0.0954	0.0197	2,118.6503
Condo/Townhouse	1.64548e+007	4,786.8957	0.2165	0.0448	4,805.3238
Elementary School	8.79688e+006	2,559.1123	0.1157	0.0239	2,568.9641
Fast Food Restaurant with Drive Thru	2.51672e+006	732.1418	0.0331	6.8500e-003	734.9603
Free-Standing Discount Superstore	9.28088e+006	2,699.9135	0.1221	0.0253	2,710.3073
General Office Building	1.78073e+007	5,180.3617	0.2342	0.0485	5,200.3045
Government Office Building	5.66397e+006	1,647.7144	0.0745	0.0154	1,654.0576
High School	3.79422e+006	1,103.7821	0.0499	0.0103	1,108.0313
High Turnover (Sit Down Restaurant)	2.51672e+006	732.1418	0.0331	6.8500e-003	734.9603
Home Improvement Superstore	7.85056e+006	2,283.8171	0.1033	0.0214	2,292.6090
Industrial Park	9.13168e+007	26,565.0927	1.2012	0.2485	26,667.3602
Medical Office Building	2.30191e+006	669.6531	0.0303	6.2600e-003	672.2310
Office Park	1.60383e+007	4,665.7318	0.2110	0.0437	4,683.6934
Single Family Housing	7.42019e+007	21,586.1958	0.9761	0.2019	21,669.2960
Strip Mall	7.85056e+006	2,283.8171	0.1033	0.0214	2,292.6090
Supermarket	2.94507e+007	8,567.5373	0.3874	0.0802	8,600.5196
Total		91,979.6299	4.1591	0.8605	92,333.7232

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.30803e+007	3,805.1965	0.1721	0.0356	3,819.8454
Apartments Mid Rise	7.25487e+006	2,110.5254	0.0954	0.0197	2,118.6503
Condo/Townhouse	1.64548e+007	4,786.8957	0.2165	0.0448	4,805.3238
Elementary School	8.79688e+006	2,559.1123	0.1157	0.0239	2,568.9641
Fast Food Restaurant with Drive Thru	2.51672e+006	732.1418	0.0331	6.8500e-003	734.9603
Free-Standing Discount Superstore	9.28088e+006	2,699.9135	0.1221	0.0253	2,710.3073
General Office Building	1.78073e+007	5,180.3617	0.2342	0.0485	5,200.3045
Government Office Building	5.66397e+006	1,647.7144	0.0745	0.0154	1,654.0576
High School	3.79422e+006	1,103.7821	0.0499	0.0103	1,108.0313
High Turnover (Sit Down Restaurant)	2.51672e+006	732.1418	0.0331	6.8500e-003	734.9603
Home Improvement Superstore	7.85056e+006	2,283.8171	0.1033	0.0214	2,292.6090
Industrial Park	9.13168e+007	26,565.0927	1.2012	0.2485	26,667.3602
Medical Office Building	2.30191e+006	669.6531	0.0303	6.2600e-003	672.2310
Office Park	1.60383e+007	4,665.7318	0.2110	0.0437	4,683.6934
Single Family Housing	7.42019e+007	21,586.1958	0.9761	0.2019	21,669.2960
Strip Mall	7.85056e+006	2,283.8171	0.1033	0.0214	2,292.6090
Supermarket	2.94507e+007	8,567.5373	0.3874	0.0802	8,600.5196
Total		91,979.6299	4.1591	0.8605	92,333.7232

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615
Unmitigated	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	61.5938					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	170.5128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,201.5269	16.3015	1,480.1521	0.5782		207.9524	207.9524		207.9463	207.9463	19,780.1071	8,295.4884	28,075.5955	18.2538	1.5559	28,941.2393
Landscaping	4.3584	1.6514	142.8090	7.5200e-003		0.7850	0.7850		0.7850	0.7850	0.0000	232.5497	232.5497	0.2273	0.0000	237.3222
Total	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	61.5938					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	170.5128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1,201.5269	16.3015	1,480.1521	0.5782		207.9524	207.9524		207.9463	207.9463	19,780.1071	8,295.4884	28,075.5955	18.2538	1.5559	28,941.2393
Landscaping	4.3584	1.6514	142.8090	7.5200e-003		0.7850	0.7850		0.7850	0.7850	0.0000	232.5497	232.5497	0.2273	0.0000	237.3222
Total	1,437.9918	17.9529	1,622.9611	0.5857		208.7374	208.7374		208.7313	208.7313	19,780.1071	8,528.0381	28,308.1452	18.4810	1.5559	29,178.5615

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9,240.3209	134.6241	3.2400	13,071.8342
Unmitigated	9,240.3209	134.6486	3.2451	13,073.9201

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	224.847 / 141.751	569.5989	7.3492	0.1777	779.0055
Apartments Mid Rise	130.634 / 82.3561	330.9318	4.2698	0.1032	452.5952
Condo/Townhouse	242.112 / 152.636	613.3380	7.9135	0.1913	838.8248
Elementary School	39.7324 / 102.169	179.1766	1.3022	0.0321	216.4830
Fast Food Restaurant with Drive Thru	22.7286 / 1.45076	44.4655	0.7423	0.0178	65.5829
Free-Standing Discount Superstore	51.3411 / 31.4672	129.1450	1.6781	0.0406	176.9570
General Office Building	283.345 / 173.663	712.7337	9.2610	0.2238	976.6022
Government Office Building	100.734 / 61.7404	253.3900	3.2924	0.0796	347.2002
High School	19.6239 / 50.4616	88.4957	0.6432	0.0159	106.9214
High Turnover (Sit Down Restaurant)	22.7286 / 1.45076	44.4655	0.7423	0.0178	65.5829
Home Improvement Superstore	43.4287 / 26.6176	109.2418	1.4194	0.0343	149.6854
Industrial Park	1890.51 / 0	3,575.6656	61.7369	1.4824	5,331.6852
Medical Office Building	25.859 / 4.92553	53.9243	0.8447	0.0203	77.9630
Office Park	244.682 / 149.967	615.4812	7.9973	0.1933	843.3448
Single Family Housing	650.042 / 409.809	1,646.7366	21.2468	0.5136	2,252.1407
Strip Mall	43.4287 / 26.6176	109.2418	1.4194	0.0343	149.6854
Supermarket	85.4397 / 2.64246	164.2891	2.7903	0.0670	243.6609
Total		9,240.3209	134.6486	3.2451	13,073.9201

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	224.847 / 141.751	569.5989	7.3478	0.1774	778.8917
Apartments Mid Rise	130.634 / 82.3561	330.9318	4.2690	0.1031	452.5291
Condo/Townhouse	242.112 / 152.636	613.3380	7.9121	0.1910	838.7022
Elementary School	39.7324 / 102.169	179.1766	1.3020	0.0321	216.4629
Fast Food Restaurant with Drive Thru	22.7286 / 1.45076	44.4655	0.7422	0.0178	65.5714
Free-Standing Discount Superstore	51.3411 / 31.4672	129.1450	1.6778	0.0405	176.9310
General Office Building	283.345 / 173.663	712.7337	9.2593	0.2235	976.4588
Government Office Building	100.734 / 61.7404	253.3900	3.2918	0.0795	347.1492
High School	19.6239 / 50.4616	88.4957	0.6431	0.0158	106.9115
High Turnover (Sit Down Restaurant)	22.7286 / 1.45076	44.4655	0.7422	0.0178	65.5714
Home Improvement Superstore	43.4287 / 26.6176	109.2418	1.4192	0.0343	149.6634
Industrial Park	1890.51 / 0	3,575.6656	61.7256	1.4801	5,330.7283
Medical Office Building	25.859 / 4.92553	53.9243	0.8445	0.0203	77.9499
Office Park	244.682 / 149.967	615.4812	7.9959	0.1930	843.2209
Single Family Housing	650.042 / 409.809	1,646.7366	21.2429	0.5128	2,251.8117
Strip Mall	43.4287 / 26.6176	109.2418	1.4192	0.0343	149.6634
Supermarket	85.4397 / 2.64246	164.2891	2.7898	0.0669	243.6177
Total		9,240.3209	134.6241	3.2400	13,071.8342

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	9,798.282 4	579.0619	0.0000	21,958.58 24
Mitigated	9,798.282 4	579.0619	0.0000	21,958.58 24

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1587.46	322.2400	19.0438	0.0000	722.1607
Apartments Mid Rise	922.3	187.2186	11.0643	0.0000	419.5689
Condo/Townhouse	1709.36	346.9846	20.5062	0.0000	777.6149
Elementary School	1781.3	361.5878	21.3692	0.0000	810.3416
Fast Food Restaurant with Drive Thru	862.54	175.0878	10.3474	0.0000	392.3831
Free-Standing Discount Superstore	2980.9	605.0958	35.7601	0.0000	1,356.0586
General Office Building	1482.62	300.9585	17.7861	0.0000	674.4673
Government Office Building	471.58	95.7265	5.6573	0.0000	214.5292
High School	768.3	155.9580	9.2169	0.0000	349.5118
High Turnover (Sit Down Restaurant)	891.07	180.8792	10.6897	0.0000	405.3619
Home Improvement Superstore	6501.57	1,319.7600	77.9956	0.0000	2,957.6671
Industrial Park	10137.2	2,057.7641	121.6104	0.0000	4,611.5819
Medical Office Building	2225.66	451.7889	26.7000	0.0000	1,012.4880
Office Park	1280.31	259.8914	15.3591	0.0000	582.4333
Single Family Housing	10142.5	2,058.8440	121.6742	0.0000	4,614.0020
Strip Mall	615.62	124.9653	7.3852	0.0000	280.0553
Supermarket	3909.2	793.5323	46.8964	0.0000	1,778.3570
Total		9,798.2824	579.0619	0.0000	21,958.5824

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1587.46	322.2400	19.0438	0.0000	722.1607
Apartments Mid Rise	922.3	187.2186	11.0643	0.0000	419.5689
Condo/Townhouse	1709.36	346.9846	20.5062	0.0000	777.6149
Elementary School	1781.3	361.5878	21.3692	0.0000	810.3416
Fast Food Restaurant with Drive Thru	862.54	175.0878	10.3474	0.0000	392.3831
Free-Standing Discount Superstore	2980.9	605.0958	35.7601	0.0000	1,356.0586
General Office Building	1482.62	300.9585	17.7861	0.0000	674.4673
Government Office Building	471.58	95.7265	5.6573	0.0000	214.5292
High School	768.3	155.9580	9.2169	0.0000	349.5118
High Turnover (Sit Down Restaurant)	891.07	180.8792	10.6897	0.0000	405.3619
Home Improvement Superstore	6501.57	1,319.7600	77.9956	0.0000	2,957.6671
Industrial Park	10137.2	2,057.7641	121.6104	0.0000	4,611.5819
Medical Office Building	2225.66	451.7889	26.7000	0.0000	1,012.4880
Office Park	1280.31	259.8914	15.3591	0.0000	582.4333
Single Family Housing	10142.5	2,058.8440	121.6742	0.0000	4,614.0020
Strip Mall	615.62	124.9653	7.3852	0.0000	280.0553
Supermarket	3909.2	793.5323	46.8964	0.0000	1,778.3570
Total		9,798.2824	579.0619	0.0000	21,958.5824

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2020 Summer**

West Sac General Plan - 2020
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,594.21	1000sqft	36.60	1,594,212.00	0
Government Office Building	507.07	1000sqft	11.64	507,070.00	0
Medical Office Building	206.08	1000sqft	4.73	206,080.00	0
Office Park	1,376.68	1000sqft	31.60	1,376,680.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	8,175.18	1000sqft	187.68	8,175,180.00	0
Fast Food Restaurant with Drive Thru	74.88	1000sqft	1.72	74,880.00	0
High Turnover (Sit Down Restaurant)	74.88	1000sqft	1.72	74,880.00	0
Apartments Low Rise	3,451.00	Dwelling Unit	215.69	3,451,000.00	9870
Apartments Mid Rise	2,005.00	Dwelling Unit	52.76	2,005,000.00	5734
Condo/Townhouse	3,716.00	Dwelling Unit	232.25	3,716,000.00	10628
Single Family Housing	9,977.00	Dwelling Unit	3,239.29	17,958,600.00	28534
Free-Standing Discount Superstore	693.12	1000sqft	15.91	693,120.00	0
Supermarket	693.12	1000sqft	15.91	693,120.00	0
Strip Mall	586.30	1000sqft	13.46	586,300.00	0
Home Improvement Superstore	586.30	1000sqft	13.46	586,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year			2020

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00

tblLandUse	LandUseSquareFeet	1,594,210.00	1,594,212.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00

tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Energy	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5 400	242,951.5 400	4.6566	4.4541	244,430.1 026
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	30,648.04 69	610.8469	37,802.67 11	15.3995	0.0000	5,096.118 2	5,096.118 2	0.0000	5,095.969 5	5,095.9695	531,800.8 718	468,829.3 155	1,000,630. 1873	498.2040	46.2843	1,025,440. 5935

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Energy	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5 400	242,951.5 400	4.6566	4.4541	244,430.1 026
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	30,648.04 69	610.8469	37,802.67 11	15.3995	0.0000	5,096.118 2	5,096.118 2	0.0000	5,095.969 5	5,095.9695	531,800.8 718	468,829.3 155	1,000,630. 1873	498.2040	46.2843	1,025,440. 5935

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.461412	0.061542	0.181462	0.153657	0.057057	0.007302	0.019991	0.043491	0.001830	0.001664	0.007061	0.000672	0.002859

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026
NaturalGas Unmitigated	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	54807.7	0.5911	5.0509	2.1493	0.0322		0.4084	0.4084		0.4084	0.4084		6,447.9701	6,447.9701	0.1236	0.1182	6,487.2114
Condo/Townhouse	223080	2.4058	20.5584	8.7482	0.1312		1.6622	1.6622		1.6622	1.6622		26,244.7216	26,244.7216	0.5030	0.4812	26,404.4426
Elementary School	37315.3	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	22882.5	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Free-Standing Discount Superstore	23338.2	0.2517	2.2881	1.9220	0.0137		0.1739	0.1739		0.1739	0.1739		2,745.6712	2,745.6712	0.0526	0.0503	2,762.3809
General Office Building	75561.3	0.8149	7.4080	6.2227	0.0445		0.5630	0.5630		0.5630	0.5630		8,889.5625	8,889.5625	0.1704	0.1630	8,943.6629
Government Office Building	24033.7	0.2592	2.3563	1.9793	0.0141		0.1791	0.1791		0.1791	0.1791		2,827.4975	2,827.4975	0.0542	0.0518	2,844.7052
High School	16094.6	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	22882.5	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Home Improvement Superstore	19741.4	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Apartments Low Rise	128264	1.3832	11.8204	5.0300	0.0755		0.9557	0.9557		0.9557	0.9557		15,089.9188	15,089.9188	0.2892	0.2767	15,181.7535
Industrial Park	387481	4.1787	37.9884	31.9102	0.2279		2.8871	2.8871		2.8871	2.8871		45,586.0158	45,586.0158	0.8737	0.8357	45,863.4447
Medical Office Building	9767.63	0.1053	0.9576	0.8044	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1326	1,149.1326	0.0220	0.0211	1,156.1261
Office Park	43299.4	0.4670	4.2450	3.5658	0.0255		0.3226	0.3226		0.3226	0.3226		5,094.0488	5,094.0488	0.0976	0.0934	5,125.0503
Single Family Housing	878844	9.4777	80.9915	34.4645	0.5170		6.5483	6.5483		6.5483	6.5483		103,393.4599	103,393.4599	1.9817	1.8956	104,022.6953
Strip Mall	19741.4	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Supermarket	77952.3	0.8407	7.6424	6.4196	0.0459		0.5808	0.5808		0.5808	0.5808		9,170.8545	9,170.8545	0.1758	0.1681	9,226.6668
Total		22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

5.2 Energy by Land Use - Natural Gas
Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	54.8077	0.5911	5.0509	2.1493	0.0322		0.4084	0.4084		0.4084	0.4084		6,447.9701	6,447.9701	0.1236	0.1182	6,487.2114
Condo/Townhouse	223.08	2.4058	20.5584	8.7482	0.1312		1.6622	1.6622		1.6622	1.6622		26,244.7216	26,244.7216	0.5030	0.4812	26,404.4426
Elementary School	37.3153	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	22.8825	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Free-Standing Discount Superstore	23.3382	0.2517	2.2881	1.9220	0.0137		0.1739	0.1739		0.1739	0.1739		2,745.6712	2,745.6712	0.0526	0.0503	2,762.3809
General Office Building	75.5613	0.8149	7.4080	6.2227	0.0445		0.5630	0.5630		0.5630	0.5630		8,889.5625	8,889.5625	0.1704	0.1630	8,943.6629
Government Office Building	24.0337	0.2592	2.3563	1.9793	0.0141		0.1791	0.1791		0.1791	0.1791		2,827.4975	2,827.4975	0.0542	0.0518	2,844.7052
High School	16.0946	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	22.8825	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Home Improvement Superstore	19.7414	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Industrial Park	387.481	4.1787	37.9884	31.9102	0.2279		2.8871	2.8871		2.8871	2.8871		45,586.0158	45,586.0158	0.8737	0.8357	45,863.4447
Apartments Low Rise	128.264	1.3832	11.8204	5.0300	0.0755		0.9557	0.9557		0.9557	0.9557		15,089.9188	15,089.9188	0.2892	0.2767	15,181.7535
Medical Office Building	9.76763	0.1053	0.9576	0.8044	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1326	1,149.1326	0.0220	0.0211	1,156.1261
Office Park	43.2994	0.4670	4.2450	3.5658	0.0255		0.3226	0.3226		0.3226	0.3226		5,094.0488	5,094.0488	0.0976	0.0934	5,125.0503
Single Family Housing	878.844	9.4777	80.9915	34.4645	0.5170		6.5483	6.5483		6.5483	6.5483		103,393.4599	103,393.4599	1.9817	1.8956	104,022.6953
Strip Mall	19.7414	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Supermarket	77.9523	0.8407	7.6424	6.4196	0.0459		0.5808	0.5808		0.5808	0.5808		9,170.8545	9,170.8545	0.1758	0.1681	9,226.6668
Total		22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Unmitigated	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	337.5001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	934.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29,305.53 32	397.5977	36,101.26 95	14.1011		5,072.009 4	5,072.009 4		5,071.860 7	5,071.8607	531,800.8 718	223,029.5 294	754,830.4 012	490.7640	41.8302	778,103.7 915
Landscaping	48.4265	18.3484	1,586.766 7	0.0836		8.7219	8.7219		8.7219	8.7219		2,848.246 1	2,848.246 1	2.7835		2,906.699 5
Total	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5474	41.8302	781,010.4 909

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	337.5001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	934.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29,305.5332	397.5977	36,101.2695	14.1011		5,072.0094	5,072.0094		5,071.8607	5,071.8607	531,800.8718	223,029.5294	754,830.4012	490.7640	41.8302	778,103.7915
Landscaping	48.4265	18.3484	1,586.7667	0.0836		8.7219	8.7219		8.7219	8.7219		2,848.2461	2,848.2461	2.7835		2,906.6995
Total	30,625.7764	415.9461	37,688.0363	14.1847		5,080.7313	5,080.7313		5,080.5826	5,080.5826	531,800.8718	225,877.7755	757,678.6473	493.5474	41.8302	781,010.4909

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2020 Winter**

West Sac General Plan - 2020
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,594.21	1000sqft	36.60	1,594,212.00	0
Government Office Building	507.07	1000sqft	11.64	507,070.00	0
Medical Office Building	206.08	1000sqft	4.73	206,080.00	0
Office Park	1,376.68	1000sqft	31.60	1,376,680.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	8,175.18	1000sqft	187.68	8,175,180.00	0
Fast Food Restaurant with Drive Thru	74.88	1000sqft	1.72	74,880.00	0
High Turnover (Sit Down Restaurant)	74.88	1000sqft	1.72	74,880.00	0
Apartments Low Rise	3,451.00	Dwelling Unit	215.69	3,451,000.00	9870
Apartments Mid Rise	2,005.00	Dwelling Unit	52.76	2,005,000.00	5734
Condo/Townhouse	3,716.00	Dwelling Unit	232.25	3,716,000.00	10628
Single Family Housing	9,977.00	Dwelling Unit	3,239.29	17,958,600.00	28534
Free-Standing Discount Superstore	693.12	1000sqft	15.91	693,120.00	0
Supermarket	693.12	1000sqft	15.91	693,120.00	0
Strip Mall	586.30	1000sqft	13.46	586,300.00	0
Home Improvement Superstore	586.30	1000sqft	13.46	586,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year			2020

Utility Company Pacific Gas & Electric Company

CO2 Intensity (lb/MWhr) 641.35 **CH4 Intensity (lb/MWhr)** 0.029 **N2O Intensity (lb/MWhr)** 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 = existing year

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults

Energy Use - defaults

Water And Wastewater - defaults

Solid Waste - defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00

tblLandUse	LandUseSquareFeet	1,594,210.00	1,594,212.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00

tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Energy	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5 400	242,951.5 400	4.6566	4.4541	244,430.1 026
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	30,648.04 69	610.8469	37,802.67 11	15.3995	0.0000	5,096.118 2	5,096.118 2	0.0000	5,095.969 5	5,095.9695	531,800.8 718	468,829.3 155	1,000,630. 1873	498.2040	46.2843	1,025,440. 5935

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Energy	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5 400	242,951.5 400	4.6566	4.4541	244,430.1 026
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	30,648.04 69	610.8469	37,802.67 11	15.3995	0.0000	5,096.118 2	5,096.118 2	0.0000	5,095.969 5	5,095.9695	531,800.8 718	468,829.3 155	1,000,630. 1873	498.2040	46.2843	1,025,440. 5935

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.461412	0.061542	0.181462	0.153657	0.057057	0.007302	0.019991	0.043491	0.001830	0.001664	0.007061	0.000672	0.002859

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026
NaturalGas Unmitigated	22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	54807.7	0.5911	5.0509	2.1493	0.0322		0.4084	0.4084		0.4084	0.4084		6,447.9701	6,447.9701	0.1236	0.1182	6,487.2114
Condo/Townhouse	223080	2.4058	20.5584	8.7482	0.1312		1.6622	1.6622		1.6622	1.6622		26,244.7216	26,244.7216	0.5030	0.4812	26,404.4426
Elementary School	37315.3	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	22882.5	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Free-Standing Discount Superstore	23338.2	0.2517	2.2881	1.9220	0.0137		0.1739	0.1739		0.1739	0.1739		2,745.6712	2,745.6712	0.0526	0.0503	2,762.3809
General Office Building	75561.3	0.8149	7.4080	6.2227	0.0445		0.5630	0.5630		0.5630	0.5630		8,889.5625	8,889.5625	0.1704	0.1630	8,943.6629
Government Office Building	24033.7	0.2592	2.3563	1.9793	0.0141		0.1791	0.1791		0.1791	0.1791		2,827.4975	2,827.4975	0.0542	0.0518	2,844.7052
High School	16094.6	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	22882.5	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Home Improvement Superstore	19741.4	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Apartments Low Rise	128264	1.3832	11.8204	5.0300	0.0755		0.9557	0.9557		0.9557	0.9557		15,089.9188	15,089.9188	0.2892	0.2767	15,181.7535
Industrial Park	387481	4.1787	37.9884	31.9102	0.2279		2.8871	2.8871		2.8871	2.8871		45,586.0158	45,586.0158	0.8737	0.8357	45,863.4447
Medical Office Building	9767.63	0.1053	0.9576	0.8044	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1326	1,149.1326	0.0220	0.0211	1,156.1261
Office Park	43299.4	0.4670	4.2450	3.5658	0.0255		0.3226	0.3226		0.3226	0.3226		5,094.0488	5,094.0488	0.0976	0.0934	5,125.0503
Single Family Housing	878844	9.4777	80.9915	34.4645	0.5170		6.5483	6.5483		6.5483	6.5483		103,393.4599	103,393.4599	1.9817	1.8956	104,022.6953
Strip Mall	19741.4	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Supermarket	77952.3	0.8407	7.6424	6.4196	0.0459		0.5808	0.5808		0.5808	0.5808		9,170.8545	9,170.8545	0.1758	0.1681	9,226.6668
Total		22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

5.2 Energy by Land Use - Natural Gas
Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	54.8077	0.5911	5.0509	2.1493	0.0322		0.4084	0.4084		0.4084	0.4084		6,447.9701	6,447.9701	0.1236	0.1182	6,487.2114
Condo/Townhouse	223.08	2.4058	20.5584	8.7482	0.1312		1.6622	1.6622		1.6622	1.6622		26,244.7216	26,244.7216	0.5030	0.4812	26,404.4426
Elementary School	37.3153	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	22.8825	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Free-Standing Discount Superstore	23.3382	0.2517	2.2881	1.9220	0.0137		0.1739	0.1739		0.1739	0.1739		2,745.6712	2,745.6712	0.0526	0.0503	2,762.3809
General Office Building	75.5613	0.8149	7.4080	6.2227	0.0445		0.5630	0.5630		0.5630	0.5630		8,889.5625	8,889.5625	0.1704	0.1630	8,943.6629
Government Office Building	24.0337	0.2592	2.3563	1.9793	0.0141		0.1791	0.1791		0.1791	0.1791		2,827.4975	2,827.4975	0.0542	0.0518	2,844.7052
High School	16.0946	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	22.8825	0.2468	2.2434	1.8844	0.0135		0.1705	0.1705		0.1705	0.1705		2,692.0597	2,692.0597	0.0516	0.0494	2,708.4431
Home Improvement Superstore	19.7414	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Apartments Low Rise	128.264	1.3832	11.8204	5.0300	0.0755		0.9557	0.9557		0.9557	0.9557		15,089.9188	15,089.9188	0.2892	0.2767	15,181.7535
Industrial Park	387.481	4.1787	37.9884	31.9102	0.2279		2.8871	2.8871		2.8871	2.8871		45,586.0158	45,586.0158	0.8737	0.8357	45,863.4447
Medical Office Building	9.76763	0.1053	0.9576	0.8044	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1326	1,149.1326	0.0220	0.0211	1,156.1261
Office Park	43.2994	0.4670	4.2450	3.5658	0.0255		0.3226	0.3226		0.3226	0.3226		5,094.0488	5,094.0488	0.0976	0.0934	5,125.0503
Single Family Housing	878.844	9.4777	80.9915	34.4645	0.5170		6.5483	6.5483		6.5483	6.5483		103,393.4599	103,393.4599	1.9817	1.8956	104,022.6953
Strip Mall	19.7414	0.2129	1.9354	1.6258	0.0116		0.1471	0.1471		0.1471	0.1471		2,322.5228	2,322.5228	0.0445	0.0426	2,336.6573
Supermarket	77.9523	0.8407	7.6424	6.4196	0.0459		0.5808	0.5808		0.5808	0.5808		9,170.8545	9,170.8545	0.1758	0.1681	9,226.6668
Total		22.2706	194.9008	114.6349	1.2148		15.3869	15.3869		15.3869	15.3869		242,951.5400	242,951.5400	4.6566	4.4541	244,430.1026

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909
Unmitigated	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5475	41.8302	781,010.4 909

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	337.5001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	934.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29,305.53 32	397.5977	36,101.26 95	14.1011		5,072.009 4	5,072.009 4		5,071.860 7	5,071.8607	531,800.8 718	223,029.5 294	754,830.4 012	490.7640	41.8302	778,103.7 915
Landscaping	48.4265	18.3484	1,586.766 7	0.0836		8.7219	8.7219		8.7219	8.7219		2,848.246 1	2,848.246 1	2.7835		2,906.699 5
Total	30,625.77 64	415.9461	37,688.03 63	14.1847		5,080.731 3	5,080.731 3		5,080.582 6	5,080.5826	531,800.8 718	225,877.7 755	757,678.6 473	493.5474	41.8302	781,010.4 909

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	337.5001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	934.3166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	29,305.5332	397.5977	36,101.2695	14.1011		5,072.0094	5,072.0094		5,071.8607	5,071.8607	531,800.8718	223,029.5294	754,830.4012	490.7640	41.8302	778,103.7915
Landscaping	48.4265	18.3484	1,586.7667	0.0836		8.7219	8.7219		8.7219	8.7219		2,848.2461	2,848.2461	2.7835		2,906.6995
Total	30,625.7764	415.9461	37,688.0363	14.1847		5,080.7313	5,080.7313		5,080.5826	5,080.5826	531,800.8718	225,877.7755	757,678.6473	493.5474	41.8302	781,010.4909

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2035 Annual**

West Sac General Plan - 2035
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4,195.94	1000sqft	96.33	4,195,935.00	0
Government Office Building	1,509.24	1000sqft	34.65	1,509,240.00	0
Medical Office Building	559.98	1000sqft	12.86	559,980.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	12,291.54	1000sqft	282.17	12,291,500.00	0
Fast Food Restaurant with Drive Thru	107.37	1000sqft	2.46	107,370.00	0
High Turnover (Sit Down Restaurant)	107.37	1000sqft	2.46	107,370.00	0
Apartments Low Rise	5,258.00	Dwelling Unit	328.63	5,258,000.00	15038
Apartments Mid Rise	8,737.00	Dwelling Unit	229.92	8,737,000.00	24988
Condo/Townhouse	4,911.00	Dwelling Unit	306.94	4,911,000.00	14045
Single Family Housing	13,569.00	Dwelling Unit	4,405.52	24,424,200.00	38807
Free-Standing Discount Superstore	1,095.91	1000sqft	25.16	1,095,910.00	0
Supermarket	1,095.91	1000sqft	25.16	1,095,910.00	0
Strip Mall	1,393.22	1000sqft	31.98	1,393,220.00	0
Home Improvement Superstore	1,393.22	1000sqft	31.98	1,393,220.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year	2035		
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MW hr) 641.35 **CH4 Intensity** (lb/MW hr) 0.029 **N2O Intensity** (lb/MW hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w CT-emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults here

Water And Wastewater - Use defaults

Solid Waste - Use defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Energy Use - Use defaults

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	4,195,940.00	4,195,935.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00

tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074
Energy	6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	207,288.3371	207,288.3371	7.7610	2.4948	208,224.7022
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	16,636.4593	0.0000	16,636.4593	983.1866	0.0000	37,283.3774
Water						0.0000	0.0000		0.0000	0.0000	2,100.6463	12,790.4726	14,891.1189	216.3349	5.2141	21,050.5336
Total	2,418.3554	85.1954	2,783.3212	1.3343	0.0000	358.3267	358.3267	0.0000	358.3164	358.3164	52,282.4070	234,541.5618	286,823.9688	1,238.6153	10.3475	316,042.6206

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074
Energy	6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	207,288.3371	207,288.3371	7.7610	2.4948	208,224.7022
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	16,636.4593	0.0000	16,636.4593	983.1866	0.0000	37,283.3774
Water						0.0000	0.0000		0.0000	0.0000	2,100.6463	12,790.4726	14,891.1189	216.2955	5.2060	21,047.1823
Total	2,418.3554	85.1954	2,783.3212	1.3343	0.0000	358.3267	358.3267	0.0000	358.3164	358.3164	52,282.4070	234,541.5618	286,823.9688	1,238.5760	10.3394	316,039.2693

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463689	0.062577	0.178925	0.148500	0.056439	0.007303	0.020966	0.047601	0.001899	0.001593	0.007138	0.000568	0.002804

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145,409.9191	145,409.9191	6.5750	1.3604	145,969.7025
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145,409.9191	145,409.9191	6.5750	1.3604	145,969.7025
NaturalGas Mitigated	6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	61,878.4180	61,878.4180	1.1860	1.1344	62,254.9997
NaturalGas Unmitigated	6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	61,878.4180	61,878.4180	1.1860	1.1344	62,254.9997

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	8.71732e+007	0.4701	4.0168	1.7093	0.0256		0.3248	0.3248		0.3248	0.3248	0.0000	4,651.8916	4,651.8916	0.0892	0.0853	4,680.2022
Condo/Townhouse	1.07609e+008	0.5802	4.9585	2.1100	0.0317		0.4009	0.4009		0.4009	0.4009	0.0000	5,742.4180	5,742.4180	0.1101	0.1053	5,777.3654
Elementary School	1.36201e+007	0.0734	0.6677	0.5608	4.0100e-003		0.0507	0.0507		0.0507	0.0507	0.0000	726.8197	726.8197	0.0139	0.0133	731.2430
Fast Food Restaurant with Drive Thru	1.1976e+007	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0876	639.0876	0.0123	0.0117	642.9770
Free-Standing Discount Superstore	1.34687e+007	0.0726	0.6602	0.5546	3.9600e-003		0.0502	0.0502		0.0502	0.0502	0.0000	718.7429	718.7429	0.0138	0.0132	723.1171
General Office Building	7.25897e+007	0.3914	3.5583	2.9890	0.0214		0.2704	0.2704		0.2704	0.2704	0.0000	3,873.6615	3,873.6615	0.0743	0.0710	3,897.2360
Government Office Building	2.61099e+007	0.1408	1.2799	1.0751	7.6800e-003		0.0973	0.0973		0.0973	0.0973	0.0000	1,393.3211	1,393.3211	0.0267	0.0255	1,401.8007
High School	5.87454e+006	0.0317	0.2880	0.2419	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.4878	313.4878	6.0100e-003	5.7500e-003	315.3957
High Turnover (Sit Down Restaurant)	1.1976e+007	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0876	639.0876	0.0123	0.0117	642.9770
Home Improvement Superstore	1.71227e+007	0.0923	0.8394	0.7051	5.0400e-003		0.0638	0.0638		0.0638	0.0638	0.0000	913.7311	913.7311	0.0175	0.0168	919.2919
Apartments Low Rise	7.13303e+007	0.3846	3.2868	1.3986	0.0210		0.2657	0.2657		0.2657	0.2657	0.0000	3,806.4588	3,806.4588	0.0730	0.0698	3,829.6242
Industrial Park	2.12643e+008	1.1466	10.4237	8.7559	0.0625		0.7922	0.7922		0.7922	0.7922	0.0000	11,347.4376	11,347.4376	0.2175	0.2080	11,416.4962
Medical Office Building	9.68765e+006	0.0522	0.4749	0.3989	2.8500e-003		0.0361	0.0361		0.0361	0.0361	0.0000	516.9701	516.9701	9.9100e-003	9.4800e-003	520.1163
Single Family Housing	4.36267e+008	2.3524	20.1025	8.5543	0.1283		1.6253	1.6253		1.6253	1.6253	0.0000	23,280.8881	23,280.8881	0.4462	0.4268	23,422.5717
Strip Mall	1.71227e+007	0.0923	0.8394	0.7051	5.0400e-003		0.0638	0.0638		0.0638	0.0638	0.0000	913.7311	913.7311	0.0175	0.0168	919.2919
Supermarket	4.49871e+007	0.2426	2.2053	1.8524	0.0132		0.1676	0.1676		0.1676	0.1676	0.0000	2,400.6833	2,400.6833	0.0460	0.0440	2,415.2934
Total		6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	61,878.4180	61,878.4180	1.1860	1.1345	62,254.9997

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	8.71732e+007	0.4701	4.0168	1.7093	0.0256		0.3248	0.3248		0.3248	0.3248	0.0000	4,651.8916	4,651.8916	0.0892	0.0853	4,680.2022
Condo/Townhouse	1.07609e+008	0.5802	4.9585	2.1100	0.0317		0.4009	0.4009		0.4009	0.4009	0.0000	5,742.4180	5,742.4180	0.1101	0.1053	5,777.3654
Elementary School	1.36201e+007	0.0734	0.6677	0.5608	4.0100e-003		0.0507	0.0507		0.0507	0.0507	0.0000	726.8197	726.8197	0.0139	0.0133	731.2430
Fast Food Restaurant with Drive Thru	1.1976e+007	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0876	639.0876	0.0123	0.0117	642.9770
Free-Standing Discount Superstore	1.34687e+007	0.0726	0.6602	0.5546	3.9600e-003		0.0502	0.0502		0.0502	0.0502	0.0000	718.7429	718.7429	0.0138	0.0132	723.1171
General Office Building	7.25897e+007	0.3914	3.5583	2.9890	0.0214		0.2704	0.2704		0.2704	0.2704	0.0000	3,873.6615	3,873.6615	0.0743	0.0710	3,897.2360
Government Office Building	2.61099e+007	0.1408	1.2799	1.0751	7.6800e-003		0.0973	0.0973		0.0973	0.0973	0.0000	1,393.3211	1,393.3211	0.0267	0.0255	1,401.8007
High School	5.87454e+006	0.0317	0.2880	0.2419	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.4878	313.4878	6.0100e-003	5.7500e-003	315.3957
High Turnover (Sit Down Restaurant)	1.1976e+007	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0876	639.0876	0.0123	0.0117	642.9770
Home Improvement Superstore	1.71227e+007	0.0923	0.8394	0.7051	5.0400e-003		0.0638	0.0638		0.0638	0.0638	0.0000	913.7311	913.7311	0.0175	0.0168	919.2919
Industrial Park	2.12643e+008	1.1466	10.4237	8.7559	0.0625		0.7922	0.7922		0.7922	0.7922	0.0000	11,347.4376	11,347.4376	0.2175	0.2080	11,416.4962
Apartments Low Rise	7.13303e+007	0.3846	3.2868	1.3986	0.0210		0.2657	0.2657		0.2657	0.2657	0.0000	3,806.4588	3,806.4588	0.0730	0.0698	3,829.6242
Medical Office Building	9.68765e+006	0.0522	0.4749	0.3989	2.8500e-003		0.0361	0.0361		0.0361	0.0361	0.0000	516.9701	516.9701	9.9100e-003	9.4800e-003	520.1163
Single Family Housing	4.36267e+008	2.3524	20.1025	8.5543	0.1283		1.6253	1.6253		1.6253	1.6253	0.0000	23,280.8881	23,280.8881	0.4462	0.4268	23,422.5717
Strip Mall	1.71227e+007	0.0923	0.8394	0.7051	5.0400e-003		0.0638	0.0638		0.0638	0.0638	0.0000	913.7311	913.7311	0.0175	0.0168	919.2919
Supermarket	4.49871e+007	0.2426	2.2053	1.8524	0.0132		0.1676	0.1676		0.1676	0.1676	0.0000	2,400.6833	2,400.6833	0.0460	0.0440	2,415.2934
Total		6.2525	54.7752	32.5971	0.3411		4.3199	4.3199		4.3199	4.3199	0.0000	61,878.4180	61,878.4180	1.1860	1.1345	62,254.9997

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.99293e+007	5,797.6596	0.2622	0.0542	5,819.9788
Apartments Mid Rise	3.16139e+007	9,196.8383	0.4159	0.0860	9,232.2433
Condo/Townhouse	2.17464e+007	6,326.2769	0.2861	0.0592	6,350.6311
Elementary School	8.79688e+006	2,559.1123	0.1157	0.0239	2,568.9641
Fast Food Restaurant with Drive Thru	3.60871e+006	1,049.8139	0.0475	9.8200e-003	1,053.8553
Free-Standing Discount Superstore	1.46742e+007	4,268.9032	0.1930	0.0399	4,285.3372
General Office Building	4.68686e+007	13,634.6114	0.6165	0.1276	13,687.1005
Government Office Building	1.68582e+007	4,904.2468	0.2218	0.0459	4,923.1267
High School	3.79422e+006	1,103.7821	0.0499	0.0103	1,108.0313
High Turnover (Sit Down Restaurant)	3.60871e+006	1,049.8139	0.0475	9.8200e-003	1,053.8553
Home Improvement Superstore	1.86552e+007	5,427.0162	0.2454	0.0508	5,447.9085
Industrial Park	1.37296e+008	39,940.9967	1.8060	0.3737	40,094.7572
Medical Office Building	6.25498e+006	1,819.6444	0.0823	0.0170	1,826.6495
Single Family Housing	1.00917e+008	29,357.8321	1.3275	0.2747	29,470.8507
Strip Mall	1.86552e+007	5,427.0162	0.2454	0.0508	5,447.9085
Supermarket	4.65652e+007	13,546.3553	0.6125	0.1267	13,598.5045
Total		145,409.9191	6.5750	1.3604	145,969.7026

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.99293e+007	5,797.6596	0.2622	0.0542	5,819.9788
Apartments Mid Rise	3.16139e+007	9,196.8383	0.4159	0.0860	9,232.2433
Condo/Townhouse	2.17464e+007	6,326.2769	0.2861	0.0592	6,350.6311
Elementary School	8.79688e+006	2,559.1123	0.1157	0.0239	2,568.9641
Fast Food Restaurant with Drive Thru	3.60871e+006	1,049.8139	0.0475	9.8200e-003	1,053.8553
Free-Standing Discount Superstore	1.46742e+007	4,268.9032	0.1930	0.0399	4,285.3372
General Office Building	4.68686e+007	13,634.6114	0.6165	0.1276	13,687.1005
Government Office Building	1.68582e+007	4,904.2468	0.2218	0.0459	4,923.1267
High School	3.79422e+006	1,103.7821	0.0499	0.0103	1,108.0313
High Turnover (Sit Down Restaurant)	3.60871e+006	1,049.8139	0.0475	9.8200e-003	1,053.8553
Home Improvement Superstore	1.86552e+007	5,427.0162	0.2454	0.0508	5,447.9085
Industrial Park	1.37296e+008	39,940.9967	1.8060	0.3737	40,094.7572
Medical Office Building	6.25498e+006	1,819.6444	0.0823	0.0170	1,826.6495
Single Family Housing	1.00917e+008	29,357.8321	1.3275	0.2747	29,470.8507
Strip Mall	1.86552e+007	5,427.0162	0.2454	0.0508	5,447.9085
Supermarket	4.65652e+007	13,546.3553	0.6125	0.1267	13,598.5045
Total		145,409.9191	6.5750	1.3604	145,969.7026

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074
Unmitigated	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	97.5745					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	269.6400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2,037.6826	27.6459	2,510.2062	0.9805		352.6687	352.6687		352.6584	352.6584	33,545.3014	14,068.4102	47,613.7116	30.9568	2.6386	49,081.7665
Landscaping	7.2059	2.7743	240.5179	0.0128		1.3380	1.3380		1.3380	1.3380	0.0000	394.3420	394.3420	0.3761	0.0000	402.2409
Total	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	97.5745					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	269.6400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2,037.6826	27.6459	2,510.2062	0.9805		352.6687	352.6687		352.6584	352.6584	33,545.3014	14,068.4102	47,613.7116	30.9568	2.6386	49,081.7665
Landscaping	7.2059	2.7743	240.5179	0.0128		1.3380	1.3380		1.3380	1.3380	0.0000	394.3420	394.3420	0.3761	0.0000	402.2409
Total	2,412.1029	30.4202	2,750.7241	0.9932		354.0068	354.0068		353.9964	353.9964	33,545.3014	14,462.7522	48,008.0536	31.3329	2.6386	49,484.0074

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14,891.1189	216.2955	5.2060	21,047.1823
Unmitigated	14,891.1189	216.3349	5.2141	21,050.5336

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	342.58 / 215.974	867.8501	11.1973	0.2707	1,186.9055
Apartments Mid Rise	569.251 / 358.875	1,442.0705	18.6061	0.4498	1,972.2314
Condo/Townhouse	319.971 / 201.721	810.5767	10.4583	0.2528	1,108.5760
Elementary School	39.7324 / 102.169	179.1766	1.3022	0.0321	216.4830
Fast Food Restaurant with Drive Thru	32.5904 / 2.08024	63.7588	1.0644	0.0256	94.0389
Free-Standing Discount Superstore	81.1768 / 49.7535	204.1944	2.6532	0.0641	279.7914
General Office Building	745.76 / 457.079	1,875.9058	24.3747	0.5891	2,570.4042
Government Office Building	299.825 / 183.764	754.1885	9.7996	0.2369	1,033.4044
High School	19.6239 / 50.4616	88.4957	0.6432	0.0159	106.9214
High Turnover (Sit Down Restaurant)	32.5904 / 2.08024	63.7588	1.0644	0.0256	94.0389
Home Improvement Superstore	103.199 / 63.2512	259.5904	3.3730	0.0815	355.6961
Industrial Park	2842.41 / 0	5,376.0643	92.8223	2.2288	8,016.2649
Medical Office Building	70.2666 / 13.3841	146.5281	2.2953	0.0552	211.8484
Single Family Housing	884.075 / 557.352	2,239.6079	28.8962	0.6985	3,062.9745
Strip Mall	103.199 / 63.2512	259.5904	3.3730	0.0815	355.6961
Supermarket	135.091 / 4.17807	259.7617	4.4118	0.1060	385.2586
Total		14,891.1189	216.3349	5.2141	21,050.5336

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	342.58 / 215.974	867.8501	11.1953	0.2703	1,186.7321
Apartments Mid Rise	569.251 / 358.875	1,442.0705	18.6027	0.4491	1,971.9433
Condo/Townhouse	319.971 / 201.721	810.5767	10.4564	0.2524	1,108.4141
Elementary School	39.7324 / 102.169	179.1766	1.3020	0.0321	216.4629
Fast Food Restaurant with Drive Thru	32.5904 / 2.08024	63.7588	1.0642	0.0255	94.0224
Free-Standing Discount Superstore	81.1768 / 49.7535	204.1944	2.6527	0.0640	279.7503
General Office Building	745.76 / 457.079	1,875.9058	24.3703	0.5882	2,570.0268
Government Office Building	299.825 / 183.764	754.1885	9.7978	0.2365	1,033.2527
High School	19.6239 / 50.4616	88.4957	0.6431	0.0158	106.9115
High Turnover (Sit Down Restaurant)	32.5904 / 2.08024	63.7588	1.0642	0.0255	94.0224
Home Improvement Superstore	103.199 / 63.2512	259.5904	3.3724	0.0814	355.6439
Industrial Park	2842.41 / 0	5,376.0643	92.8054	2.2253	8,014.8262
Medical Office Building	70.2666 / 13.3841	146.5281	2.2948	0.0551	211.8128
Single Family Housing	884.075 / 557.352	2,239.6079	28.8909	0.6975	3,062.5271
Strip Mall	103.199 / 63.2512	259.5904	3.3724	0.0814	355.6439
Supermarket	135.091 / 4.17807	259.7617	4.4109	0.1058	385.1902
Total		14,891.1189	216.2955	5.2060	21,047.1823

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	16,636.45 93	983.1866	0.0000	37,283.37 74
Mitigated	16,636.45 93	983.1866	0.0000	37,283.37 74

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2418.68	490.9702	29.0155	0.0000	1,100.2958
Apartments Mid Rise	4019.02	815.8247	48.2139	0.0000	1,828.3158
Condo/Townhouse	2259.06	458.5688	27.1006	0.0000	1,027.6822
Elementary School	1781.3	361.5878	21.3692	0.0000	810.3416
Fast Food Restaurant with Drive Thru	1236.79	251.0572	14.8371	0.0000	562.6354
Free-Standing Discount Superstore	4713.18	956.7330	56.5413	0.0000	2,144.1002
General Office Building	3902.22	792.1154	46.8127	0.0000	1,775.1817
Government Office Building	1403.59	284.9161	16.8381	0.0000	638.5153
High School	768.3	155.9580	9.2169	0.0000	349.5118
High Turnover (Sit Down Restaurant)	1277.7	259.3616	15.3278	0.0000	581.2460
Home Improvement Superstore	15449.6	3,136.1373	185.3404	0.0000	7,028.2858
Industrial Park	15241.5	3,093.8786	182.8430	0.0000	6,933.5814
Medical Office Building	6047.78	1,227.6447	72.5517	0.0000	2,751.2309
Single Family Housing	13794.1	2,800.0817	165.4801	0.0000	6,275.1635
Strip Mall	1462.88	296.9514	17.5493	0.0000	665.4873
Supermarket	6180.93	1,254.6729	74.1491	0.0000	2,811.8029
Total		16,636.4593	983.1866	0.0000	37,283.3774

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2418.68	490.9702	29.0155	0.0000	1,100.2958
Apartments Mid Rise	4019.02	815.8247	48.2139	0.0000	1,828.3158
Condo/Townhouse	2259.06	458.5688	27.1006	0.0000	1,027.6822
Elementary School	1781.3	361.5878	21.3692	0.0000	810.3416
Fast Food Restaurant with Drive Thru	1236.79	251.0572	14.8371	0.0000	562.6354
Free-Standing Discount Superstore	4713.18	956.7330	56.5413	0.0000	2,144.1002
General Office Building	3902.22	792.1154	46.8127	0.0000	1,775.1817
Government Office Building	1403.59	284.9161	16.8381	0.0000	638.5153
High School	768.3	155.9580	9.2169	0.0000	349.5118
High Turnover (Sit Down Restaurant)	1277.7	259.3616	15.3278	0.0000	581.2460
Home Improvement Superstore	15449.6	3,136.1373	185.3404	0.0000	7,028.2858
Industrial Park	15241.5	3,093.8786	182.8430	0.0000	6,933.5814
Medical Office Building	6047.78	1,227.6447	72.5517	0.0000	2,751.2309
Single Family Housing	13794.1	2,800.0817	165.4801	0.0000	6,275.1635
Strip Mall	1462.88	296.9514	17.5493	0.0000	665.4873
Supermarket	6180.93	1,254.6729	74.1491	0.0000	2,811.8029
Total		16,636.4593	983.1866	0.0000	37,283.3774

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2035 Summer**

West Sac General Plan - 2035
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4,195.94	1000sqft	96.33	4,195,935.00	0
Government Office Building	1,509.24	1000sqft	34.65	1,509,240.00	0
Medical Office Building	559.98	1000sqft	12.86	559,980.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	12,291.54	1000sqft	282.17	12,291,500.00	0
Fast Food Restaurant with Drive Thru	107.37	1000sqft	2.46	107,370.00	0
High Turnover (Sit Down Restaurant)	107.37	1000sqft	2.46	107,370.00	0
Apartments Low Rise	5,258.00	Dwelling Unit	328.63	5,258,000.00	15038
Apartments Mid Rise	8,737.00	Dwelling Unit	229.92	8,737,000.00	24988
Condo/Townhouse	4,911.00	Dwelling Unit	306.94	4,911,000.00	14045
Single Family Housing	13,569.00	Dwelling Unit	4,405.52	24,424,200.00	38807
Free-Standing Discount Superstore	1,095.91	1000sqft	25.16	1,095,910.00	0
Supermarket	1,095.91	1000sqft	25.16	1,095,910.00	0
Strip Mall	1,393.22	1000sqft	31.98	1,393,220.00	0
Home Improvement Superstore	1,393.22	1000sqft	31.98	1,393,220.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year	2035		
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MW hr) 641.35 **CH4 Intensity** (lb/MW hr) 0.029 **N2O Intensity** (lb/MW hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w CT-emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults here

Water And Wastewater - Use defaults

Solid Waste - Use defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Energy Use - Use defaults

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	4,195,940.00	4,195,935.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00

tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	51,791.7753	705.1157	63,896.9620	24.0560		8,616.5436	8,616.5436		8,616.2915	8,616.2915	901,886.9555	383,068.0981	1,284,955.0536	836.8989	70.9402	1,324,521.3973
Energy	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	51,826.0357	1,005.2540	64,075.5764	25.9247	0.0000	8,640.2144	8,640.2144	0.0000	8,639.9623	8,639.9623	901,886.9555	756,817.5776	1,658,704.5331	844.0624	77.7923	1,700,545.4538

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	51,791.7753	705.1157	63,896.9620	24.0560		8,616.5436	8,616.5436		8,616.2915	8,616.2915	901,886.9555	383,068.0981	1,284,955.0536	836.8989	70.9402	1,324,521.3973
Energy	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	51,826.0357	1,005.2540	64,075.5764	25.9247	0.0000	8,640.2144	8,640.2144	0.0000	8,639.9623	8,639.9623	901,886.9555	756,817.5776	1,658,704.5331	844.0624	77.7923	1,700,545.4538

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463689	0.062577	0.178925	0.148500	0.056439	0.007303	0.020966	0.047601	0.001899	0.001593	0.007138	0.000568	0.002804

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565
NaturalGas Unmitigated	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	238831	2.5756	22.0099	9.3659	0.1405		1.7795	1.7795		1.7795	1.7795		28,097.7133	28,097.7133	0.5385	0.5151	28,268.7113
Condo/Townhouse	294819	3.1794	27.1696	11.5615	0.1734		2.1967	2.1967		2.1967	2.1967		34,684.5608	34,684.5608	0.6648	0.6359	34,895.6452
Elementary School	37315.3	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	32811.1	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Free-Standing Discount Superstore	36900.6	0.3980	3.6177	3.0389	0.0217		0.2750	0.2750		0.2750	0.2750		4,341.2519	4,341.2519	0.0832	0.0796	4,367.6720
General Office Building	198876	2.1447	19.4976	16.3780	0.1170		1.4818	1.4818		1.4818	1.4818		23,397.1557	23,397.1557	0.4485	0.4290	23,539.5469
Government Office Building	71533.8	0.7714	7.0131	5.8910	0.0421		0.5330	0.5330		0.5330	0.5330		8,415.7460	8,415.7460	0.1613	0.1543	8,466.9628
High School	16094.6	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	32811.1	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Home Improvement Superstore	46911.4	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Apartments Low Rise	195426	2.1075	18.0098	7.6638	0.1150		1.4561	1.4561		1.4561	1.4561		22,991.2469	22,991.2469	0.4407	0.4215	23,131.1678
Industrial Park	582583	6.2828	57.1160	47.9775	0.3427		4.3408	4.3408		4.3408	4.3408		68,539.2264	68,539.2264	1.3137	1.2566	68,956.3447
Medical Office Building	26541.5	0.2862	2.6021	2.1858	0.0156		0.1978	0.1978		0.1978	0.1978		3,122.5315	3,122.5315	0.0599	0.0573	3,141.5347
Single Family Housing	1.19525e+006	12.8900	110.1508	46.8727	0.7031		8.9058	8.9058		8.9058	8.9058		140,618.0071	140,618.0071	2.6952	2.5780	141,473.7849
Strip Mall	46911.4	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Supermarket	123252	1.3292	12.0836	10.1502	0.0725		0.9184	0.9184		0.9184	0.9184		14,500.2758	14,500.2758	0.2779	0.2658	14,588.5220
Total		34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1636	6.8521	376,024.0565

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	238.831	2.5756	22.0099	9.3659	0.1405		1.7795	1.7795		1.7795	1.7795		28,097.7133	28,097.7133	0.5385	0.5151	28,268.7113
Condo/Townhouse	294.819	3.1794	27.1696	11.5615	0.1734		2.1967	2.1967		2.1967	2.1967		34,684.5608	34,684.5608	0.6648	0.6359	34,895.6452
Elementary School	37.3153	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	32.8111	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Free-Standing Discount Superstore	36.9006	0.3980	3.6177	3.0389	0.0217		0.2750	0.2750		0.2750	0.2750		4,341.2519	4,341.2519	0.0832	0.0796	4,367.6720
General Office Building	198.876	2.1447	19.4976	16.3780	0.1170		1.4818	1.4818		1.4818	1.4818		23,397.1557	23,397.1557	0.4485	0.4290	23,539.5469
Government Office Building	71.5338	0.7714	7.0131	5.8910	0.0421		0.5330	0.5330		0.5330	0.5330		8,415.7460	8,415.7460	0.1613	0.1543	8,466.9628
High School	16.0946	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	32.8111	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Home Improvement Superstore	46.9114	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Industrial Park	582.583	6.2828	57.1160	47.9775	0.3427		4.3408	4.3408		4.3408	4.3408		68,539.2264	68,539.2264	1.3137	1.2566	68,956.3447
Apartments Low Rise	195.426	2.1075	18.0098	7.6638	0.1150		1.4561	1.4561		1.4561	1.4561		22,991.2469	22,991.2469	0.4407	0.4215	23,131.1678
Medical Office Building	26.5415	0.2862	2.6021	2.1858	0.0156		0.1978	0.1978		0.1978	0.1978		3,122.5315	3,122.5315	0.0599	0.0573	3,141.5347
Single Family Housing	1195.25	12.8900	110.1508	46.8727	0.7031		8.9058	8.9058		8.9058	8.9058		140,618.0071	140,618.0071	2.6952	2.5780	141,473.7849
Strip Mall	46.9114	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Supermarket	123.252	1.3292	12.0836	10.1502	0.0725		0.9184	0.9184		0.9184	0.9184		14,500.2758	14,500.2758	0.2779	0.2658	14,588.5220
Total		34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1636	6.8521	376,024.0565

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973
Unmitigated	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	534.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,477.479 2					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	49,699.57 65	674.2903	61,224.54 06	23.9143		8,601.676 6	8,601.676 6		8,601.424 5	8,601.4245	901,886.9 555	378,238.2 353	1,280,125. 1908	832.2920	70.9402	1,319,594. 7897
Landscaping	80.0650	30.8254	2,672.421 4	0.1417		14.8670	14.8670		14.8670	14.8670		4,829.862 8	4,829.862 8	4.6069		4,926.607 6
Total	51,791.77 53	705.1157	63,896.96 20	24.0559		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0537	836.8989	70.9402	1,324,521. 3973

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	534.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,477.4792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	49,699.5765	674.2903	61,224.5406	23.9143		8,601.6766	8,601.6766		8,601.4245	8,601.4245	901,886.9555	378,238.2353	1,280,125.1908	832.2920	70.9402	1,319,594.7897
Landscaping	80.0650	30.8254	2,672.4214	0.1417		14.8670	14.8670		14.8670	14.8670		4,829.8628	4,829.8628	4.6069		4,926.6076
Total	51,791.7753	705.1157	63,896.9620	24.0559		8,616.5436	8,616.5436		8,616.2915	8,616.2915	901,886.9555	383,068.0981	1,284,955.0537	836.8989	70.9402	1,324,521.3973

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

**CalEEMod Outputs - West Sacramento General Plan
Year 2035 Winter**

West Sac General Plan - 2035
Sacramento Valley Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4,195.94	1000sqft	96.33	4,195,935.00	0
Government Office Building	1,509.24	1000sqft	34.65	1,509,240.00	0
Medical Office Building	559.98	1000sqft	12.86	559,980.00	0
Elementary School	1,370.23	1000sqft	31.46	1,370,230.00	0
High School	591.00	1000sqft	13.57	591,000.00	0
Industrial Park	12,291.54	1000sqft	282.17	12,291,500.00	0
Fast Food Restaurant with Drive Thru	107.37	1000sqft	2.46	107,370.00	0
High Turnover (Sit Down Restaurant)	107.37	1000sqft	2.46	107,370.00	0
Apartments Low Rise	5,258.00	Dwelling Unit	328.63	5,258,000.00	15038
Apartments Mid Rise	8,737.00	Dwelling Unit	229.92	8,737,000.00	24988
Condo/Townhouse	4,911.00	Dwelling Unit	306.94	4,911,000.00	14045
Single Family Housing	13,569.00	Dwelling Unit	4,405.52	24,424,200.00	38807
Free-Standing Discount Superstore	1,095.91	1000sqft	25.16	1,095,910.00	0
Supermarket	1,095.91	1000sqft	25.16	1,095,910.00	0
Strip Mall	1,393.22	1000sqft	31.98	1,393,220.00	0
Home Improvement Superstore	1,393.22	1000sqft	31.98	1,393,220.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	2	Operational Year	2035		
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MW hr) 641.35 **CH4 Intensity** (lb/MW hr) 0.029 **N2O Intensity** (lb/MW hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - DKS land use data, with some variations and assumptions as described in appendix. Default SF for residences.

Construction Phase - Operational Emissions Only

Off-road Equipment - Operational only

Trips and VMT - Operational Only

On-road Fugitive Dust - Operational only

Vehicle Trips - Operational non-mobile source only (mobile source emissions calculated w CT-emfac)

Woodstoves - Use defaults for wood/gas stove and fire place etc.

Area Coating - Use defaults here

Water And Wastewater - Use defaults

Solid Waste - Use defaults

Sequestration -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - Defaults

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Energy Use - Use defaults

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	4,195,940.00	4,195,935.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	4.37	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	56.72	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.79	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.55	0.00

tblVehicleTrips	SU_TR	55.80	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	15.43	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	53.13	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	12.89	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	6.96	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	29.80	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973
Energy	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4 795	373,749.4 795	7.1635	6.8521	376,024.0 565
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	51,826.03 57	1,005.254 0	64,075.57 64	25.9247	0.0000	8,640.214 4	8,640.214 4	0.0000	8,639.962 3	8,639.9623	901,886.9 555	756,817.5 776	1,658,704. 5331	844.0624	77.7923	1,700,545. 4538

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973
Energy	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4 795	373,749.4 795	7.1635	6.8521	376,024.0 565
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	51,826.03 57	1,005.254 0	64,075.57 64	25.9247	0.0000	8,640.214 4	8,640.214 4	0.0000	8,639.962 3	8,639.9623	901,886.9 555	756,817.5 776	1,658,704. 5331	844.0624	77.7923	1,700,545. 4538

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	0.00	0.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

3.2 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
Free-Standing Discount Superstore	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
High School	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Home Improvement Superstore	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Condo/Townhouse	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Free-Standing Discount	9.50	7.30	7.30	13.20	67.80	19.00	47.5	35.5	17
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
High School	9.50	7.30	7.30	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Home Improvement Superstore	9.50	7.30	7.30	23.40	57.60	19.00	32	20	48
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463689	0.062577	0.178925	0.148500	0.056439	0.007303	0.020966	0.047601	0.001899	0.001593	0.007138	0.000568	0.002804

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565
NaturalGas Unmitigated	34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1635	6.8521	376,024.0565

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	238831	2.5756	22.0099	9.3659	0.1405		1.7795	1.7795		1.7795	1.7795		28,097.7133	28,097.7133	0.5385	0.5151	28,268.7113
Condo/Townhouse	294819	3.1794	27.1696	11.5615	0.1734		2.1967	2.1967		2.1967	2.1967		34,684.5608	34,684.5608	0.6648	0.6359	34,895.6452
Elementary School	37315.3	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	32811.1	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Free-Standing Discount Superstore	36900.6	0.3980	3.6177	3.0389	0.0217		0.2750	0.2750		0.2750	0.2750		4,341.2519	4,341.2519	0.0832	0.0796	4,367.6720
General Office Building	198876	2.1447	19.4976	16.3780	0.1170		1.4818	1.4818		1.4818	1.4818		23,397.1557	23,397.1557	0.4485	0.4290	23,539.5469
Government Office Building	71533.8	0.7714	7.0131	5.8910	0.0421		0.5330	0.5330		0.5330	0.5330		8,415.7460	8,415.7460	0.1613	0.1543	8,466.9628
High School	16094.6	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	32811.1	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Home Improvement Superstore	46911.4	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Apartments Low Rise	195426	2.1075	18.0098	7.6638	0.1150		1.4561	1.4561		1.4561	1.4561		22,991.2469	22,991.2469	0.4407	0.4215	23,131.1678
Industrial Park	582583	6.2828	57.1160	47.9775	0.3427		4.3408	4.3408		4.3408	4.3408		68,539.2264	68,539.2264	1.3137	1.2566	68,956.3447
Medical Office Building	26541.5	0.2862	2.6021	2.1858	0.0156		0.1978	0.1978		0.1978	0.1978		3,122.5315	3,122.5315	0.0599	0.0573	3,141.5347
Single Family Housing	1.19525e+006	12.8900	110.1508	46.8727	0.7031		8.9058	8.9058		8.9058	8.9058		140,618.0071	140,618.0071	2.6952	2.5780	141,473.7849
Strip Mall	46911.4	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Supermarket	123252	1.3292	12.0836	10.1502	0.0725		0.9184	0.9184		0.9184	0.9184		14,500.2758	14,500.2758	0.2779	0.2658	14,588.5220
Total		34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1636	6.8521	376,024.0565

5.2 Energy by Land Use - NaturalGas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	238.831	2.5756	22.0099	9.3659	0.1405		1.7795	1.7795		1.7795	1.7795		28,097.7133	28,097.7133	0.5385	0.5151	28,268.7113
Condo/Townhouse	294.819	3.1794	27.1696	11.5615	0.1734		2.1967	2.1967		2.1967	2.1967		34,684.5608	34,684.5608	0.6648	0.6359	34,895.6452
Elementary School	37.3153	0.4024	3.6584	3.0730	0.0220		0.2780	0.2780		0.2780	0.2780		4,390.0358	4,390.0358	0.0841	0.0805	4,416.7529
Fast Food Restaurant with Drive Thru	32.8111	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Free-Standing Discount Superstore	36.9006	0.3980	3.6177	3.0389	0.0217		0.2750	0.2750		0.2750	0.2750		4,341.2519	4,341.2519	0.0832	0.0796	4,367.6720
General Office Building	198.876	2.1447	19.4976	16.3780	0.1170		1.4818	1.4818		1.4818	1.4818		23,397.1557	23,397.1557	0.4485	0.4290	23,539.5469
Government Office Building	71.5338	0.7714	7.0131	5.8910	0.0421		0.5330	0.5330		0.5330	0.5330		8,415.7460	8,415.7460	0.1613	0.1543	8,466.9628
High School	16.0946	0.1736	1.5779	1.3254	9.4700e-003		0.1199	0.1199		0.1199	0.1199		1,893.4859	1,893.4859	0.0363	0.0347	1,905.0093
High Turnover (Sit Down Restaurant)	32.8111	0.3539	3.2168	2.7021	0.0193		0.2445	0.2445		0.2445	0.2445		3,860.1289	3,860.1289	0.0740	0.0708	3,883.6210
Home Improvement Superstore	46.9114	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Apartments Low Rise	195.426	2.1075	18.0098	7.6638	0.1150		1.4561	1.4561		1.4561	1.4561		22,991.2469	22,991.2469	0.4407	0.4215	23,131.1678
Industrial Park	582.583	6.2828	57.1160	47.9775	0.3427		4.3408	4.3408		4.3408	4.3408		68,539.2264	68,539.2264	1.3137	1.2566	68,956.3447
Medical Office Building	26.5415	0.2862	2.6021	2.1858	0.0156		0.1978	0.1978		0.1978	0.1978		3,122.5315	3,122.5315	0.0599	0.0573	3,141.5347
Single Family Housing	1195.25	12.8900	110.1508	46.8727	0.7031		8.9058	8.9058		8.9058	8.9058		140,618.0071	140,618.0071	2.6952	2.5780	141,473.7849
Strip Mall	46.9114	0.5059	4.5992	3.8633	0.0276		0.3495	0.3495		0.3495	0.3495		5,518.9924	5,518.9924	0.1058	0.1012	5,552.5800
Supermarket	123.252	1.3292	12.0836	10.1502	0.0725		0.9184	0.9184		0.9184	0.9184		14,500.2758	14,500.2758	0.2779	0.2658	14,588.5220
Total		34.2604	300.1383	178.6144	1.8688		23.6708	23.6708		23.6708	23.6708		373,749.4795	373,749.4795	7.1636	6.8521	376,024.0565

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973
Unmitigated	51,791.77 53	705.1157	63,896.96 20	24.0560		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0536	836.8989	70.9402	1,324,521. 3973

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	534.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,477.479 2					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	49,699.57 65	674.2903	61,224.54 06	23.9143		8,601.676 6	8,601.676 6		8,601.424 5	8,601.4245	901,886.9 555	378,238.2 353	1,280,125. 1908	832.2920	70.9402	1,319,594. 7897
Landscaping	80.0650	30.8254	2,672.421 4	0.1417		14.8670	14.8670		14.8670	14.8670		4,829.862 8	4,829.862 8	4.6069		4,926.607 6
Total	51,791.77 53	705.1157	63,896.96 20	24.0559		8,616.543 6	8,616.543 6		8,616.291 5	8,616.2915	901,886.9 555	383,068.0 981	1,284,955. 0537	836.8989	70.9402	1,324,521. 3973

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	534.6546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,477.4792					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	49,699.5765	674.2903	61,224.5406	23.9143		8,601.6766	8,601.6766		8,601.4245	8,601.4245	901,886.9555	378,238.2353	1,280,125.1908	832.2920	70.9402	1,319,594.7897
Landscaping	80.0650	30.8254	2,672.4214	0.1417		14.8670	14.8670		14.8670	14.8670		4,829.8628	4,829.8628	4.6069		4,926.6076
Total	51,791.7753	705.1157	63,896.9620	24.0559		8,616.5436	8,616.5436		8,616.2915	8,616.2915	901,886.9555	383,068.0981	1,284,955.0537	836.8989	70.9402	1,324,521.3973

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

Mobile Emissions Calculations

Based on EMFAC2014

Mobile Emissions Calculations

West Sacramento

Summary

Summary of West Sac Emissions

Based on Final VMT	ROG (tons/yr)	NOx (tons/yr)	CO (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)
Existing (2014)	128	1,003	2,479	90	59
2020	42	389	987	67	33
2035	39	245	806	98	40

Mobile Emissions Calculations - ROG

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

ROG Emissions All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														ALL SPEEDS
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	97.69	16.74	4.10	413
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	83.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,493
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	64.48	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,242
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,363
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,447
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	
Year	Vehicle Type	EMFAC2011 Vehicle Type		5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.4															

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6TS - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.44	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	268827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check		194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86	

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	9.68	10.79	16.51	18.55	2.12	0.71	97
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	89099.41	100808.50	112360.01	171867.32	193108.90	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	1,830
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,946
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9668.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055

VMT check | 712.68 | 6123.505 | 22675.305 | 154298.405 | 81264.315 | 125706.57 | 217971.84 | 185601.78 | 212234.53 | 242968.585 | 374146.69 | 422137.835 | 48270.03 | 16232.93

Emissions Summary - BAU

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)														0
				05 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	70 MPH	
2011	All Other Buses - DSL	ROG	CO	6.561089366	5.03760454	2.695997995	1.280975001	0.910561395	0.737422487	0.604081543	0.509417729	0.452527392	0.432647015	0.449096446	0.471218684	0.471218684	0	
2011	LDA - DSL	ROG	CO	0.504153492	0.354976976	0.244827922	0.176182175	0.138395342	0.100078524	0.091130836	0.086817385	0.08652927	0.090238207	0.091280508	0.11280508	0.122713628		
2011	LDA - GAS	ROG	CO	0.396279114	0.262581424	0.182929501	0.134426067	0.103756311	0.084097083	0.071536091	0.063885578	0.059576879	0.058656092	0.060342177	0.065081563	0.073738744	0.079929084	
2011	LD1 - DSL	ROG	CO	0.740375861	0.517949726	0.368592836	0.274358677	0.217499395	0.181232095	0.158069025	0.144269698	0.137778697	0.137678755	0.143963581	0.157601623	0.180596255	0.19662855	
2011	LD1 - GAS	ROG	CO	0.730629091	0.491940854	0.347717156	0.258245213	0.200947352	0.163887501	0.139924132	0.125118236	0.116493514	0.114397951	0.117233143	0.12568794	0.141302239	0.152330003	
2011	LD2 - DSL	ROG	CO	1.496097107	1.042521305	0.755929599	0.573575852	0.45700116	0.381357133	0.3303138	0.304337943	0.291029424	0.291223977	0.304952136	0.334189067	0.38326126	0.417475327	
2011	LD2 - GAS	ROG	CO	0.348293305	0.228436864	0.157152351	0.114545639	0.087732726	0.070397783	0.059305395	0.052474841	0.048669019	0.047410603	0.048205099	0.051546217	0.058034986	0.062692036	
2011	LHD1 - DSL	ROG	CO	0.721230718	0.507941553	0.349922735	0.251485664	0.197477372	0.164090553	0.142774755	0.129997874	0.123832722	0.12340904	0.128685109				
2011	LHD1 - GAS	ROG	CO	0.514937357	0.339177104	0.235802878	0.171928445	0.131473331	0.106320688	0.089693344	0.079539501	0.075091351	0.075064186	0.076283449				
2011	LHD2 - DSL	ROG	CO	0.690711407	0.489991673	0.325548491	0.224325999	0.174048489	0.144107278	0.12500115	0.113461737	0.107722872	0.1069755	0.111142412				
2011	LHD2 - GAS	ROG	CO	0.439249955	0.290231889	0.20230342	0.147937389	0.113495857	0.091978988	0.077846263	0.069243197	0.065395834	0.065283351	0.066635551				
2011	MCY - GAS	ROG	CO	13.69604547	9.194047004	6.544099277	4.837629227	3.753675245	3.081002194	2.65138693	2.391707836	2.234636733	2.229502686	2.337762258	2.549877091	2.903828214	3.195511061	
2011	MDV - DSL	ROG	CO	0.397972061	0.283857087	0.18342944	0.122096489	0.093753836	0.077382949	0.066940879	0.060593968	0.057359013	0.056780417	0.058797555	0.06306902	0.071817038	0.079209355	
2011	MDV - GAS	ROG	CO	0.456326977	0.296369657	0.201627629	0.145873824	0.111001155	0.088397654	0.073976947	0.065062587	0.062032674	0.058375063	0.059001563	0.062892944	0.070768816	0.076409917	
2011	MH - DSL	ROG	CO	1.286841665	0.983603852	0.571814829	0.239607945	0.170765751	0.140466727	0.116952582	0.099964388	0.089327818	0.08495995	0.086812615	0.094985158	0.109424531		
2011	MH - GAS	ROG	CO	1.994966091	1.364902329	0.971160689	0.729474171	0.574425456	0.475073123	0.411948667	0.374493777	0.35318971	0.355860838	0.372509528	0.406433066	0.462181426		
2011	Motor Coach - DSL	ROG	CO	10.52248535	8.001972733	4.147353785	1.927011687	1.370556478	1.085686258	0.867472675	0.713763212	0.622032146	0.589221894	0.61164189	0.648017632	0.648017632		
2011	OBUS - GAS	ROG	CO	1.362677048	0.871191597	0.588813396	0.418917184	0.314290969	0.248281974	0.206825653	0.181600294	0.167991789	0.163418236	0.167564986	0.180962157	0.205966147		
2011	PTO - DSL	ROG	CO			1.632326515												
2011	SBUS - DSL	ROG	CO	6.075382545	4.691205811	2.538114385	1.206024157	0.855904389	0.700840848	0.58062481	0.494738938	0.442694377	0.423995683	0.438114976	0.457959578			
2011	SBUS - GAS	ROG	CO	5.010367945	3.358987531	2.376854905	1.766028079	1.379615035	1.131131931	0.977097141	0.884030511	0.837405959	0.825102535	0.883164407	0.956058722			
2011	T6 Ag - DSL	ROG	CO	9.13166052	7.093032991	3.898083604	1.858330625	1.320773658	1.095766672	0.919680415	0.792331631	0.713460215	0.682717378	0.69965693	0.726603231	0.726603231		
2011	T6 CAIRP heavy - DSL	ROG	CO	5.388405274	4.097032971	2.135529852	0.998478579	0.718287986	0.581877954	0.476012401	0.400077467	0.353447016	0.335533918	0.345754142	0.361836708	0.361836708		
2011	T6 CAIRP small - DSL	ROG	CO	4.003405402	3.032084898	1.573921444	0.750658164	0.552984286	0.45348697	0.374937469	0.316427909	0.277224401	0.256704652	0.254311987	0.260144458	0.260144584		
2011	T6 instate construction heavy - DSL	ROG	CO	6.466456277	4.923731439	2.587309101	1.203789292	0.856387225	0.69059032	0.562977141	0.472907313	0.4119795301	0.403063621	0.422110947	0.454560651	0.454560651		
2011	T6 instate construction small - DSL	ROG	CO	4.405494302	3.343113811	1.741167469	0.825857998	0.60176724	0.498821748	0.402307676	0.338283223	0.296765556	0.277721116	0.279908192	0.289334111	0.289334111		
2011	T6 instate heavy - DSL	ROG	CO	6.309441986	4.834956646	2.570309147	1.213679775	0.869358234	0.710700188	0.587292164	0.498499994	0.443777139	0.426221876	0.434544804	0.452337357	0.452337357		
2011	T6 instate small - DSL	ROG	CO	4.240358529	3.222482829	1.687400501	0.807419799	0.59273489	0.487405683	0.404259312	0.342395873	0.301103001	0.279793913	0.277961712	0.284504887	0.284504887		
2011	T6 OOS heavy - DSL	ROG	CO	5.388405274	4.097032971	2.135529852	0.998478579	0.718287986	0.581877954	0.476012401	0.400077467	0.353447016	0.335533918	0.345754142	0.361836708	0.361836708		
2011	T6 OOS small - DSL	ROG	CO	4.003405402	3.032084898	1.573921444	0.750658164	0.552984286	0.45348697	0.374937469	0.316427909	0.277224401	0.256704652	0.254311987	0.260144458	0.260144584		
2011	T6 Public - DSL	ROG	CO	3.8513305	3.016788366	1.671687225	0.821716257	0.587787371	0.48773065	0.409342597	0.351885861	0.314794416	0.297622689	0.300008068	0.308575323	0.308575323		
2011	T6 utility - DSL	ROG	CO	1.513349382	1.154123338	0.624551504	0.322991104	0.23820959	0.191144003	0.154629571	0.127471318	0.106883384	0.097550161	0.093530797	0.094109897	0.094109897		
2011	T6TS - GAS	ROG	CO	3.47291408	2.317035466	1.623025991	1.198066746	0.929289541	0.758384196	0.650247992	0.585432466	0.515357709	0.548538644	0.571392728	0.621541669	0.705404026		
2011	T7 Ag - DSL	ROG	CO	16.17096461	12.59654062	6.902679162	3.282484771	2.318868089	1.90817791	1.590548682	1.360701764	1.21858509	1.161158628	1.184023102	1.232528152	1.232528152		
2011	T7 CAIRP - DSL	ROG	CO	11.41521133	8.644249088	4.46448557	2.100177934	1.529401114	1.239059057	1.012379566	0.847088766	0.741047728	0.692125104	0.69808189	0.732586574	0.732586574		
2011	T7 CAIRP construction - DSL	ROG	CO	9.963417625	7.52871954	3.888391432	1.866956142	1.401578556	1.168017956	0.979555671	0.834113715	0.729956777	0.665549791	0.639452983	0.641572609	0.641572609		
2011	T7 NOOS - DSL	ROG	CO	7.804533086	5.916858857	3.101278704	1.522984588	1.133230395	0.92982531	0.7686169	0.646420627	0.560698551	0.509340247	0.490501341	0.493909856	0.493909856		
2011	T7 NOOS - DSL	ROG	CO	11.41521133	8.644249088	4.46448557	2.100177934	1.529401114	1.239059057	1.012379566	0.847088766	0.741047728	0.692125104	0.69808189	0.732586574	0.732586574		
2011	T7 other port - DSL	ROG	CO	4.68611807	3.53149844	1.797207384	0.836237361	0.62491183	0.522019822	0.438842494	0.375251143	0.331057369	0.306004797	0.29976299	0.304142519	0.304142519		
2011	T7 POAK - DSL	ROG	CO	4.398985059	3.317408558	1.68731971	0.779113203	0.57649428	0.477302111	0.398011697	0.33853267	0.298667789	0.278107575	0.276426353	0.28329725	0.28329725		
2011	T7 Public - DSL	ROG	CO	4.56115662	3.590485597	2.070268494	1.073955591	0.773561924	0.638990701	0.533729562	0.455162139	0.40123206	0.370261987	0.360820865	0.364555959	0.364555959		
2011	T7 Single - DSL	ROG	CO	8.223029133	6.327103409	3.398952229	1.632326515	1.173678193	0.960654932	0.794264983	0.672961289	0.595200986	0.559341078	0.563561552	0.582528998	0.582528998		
2011	T7 single construction - DSL	ROG	CO	6.603735878	4.966307371	3.424487297	1.589894348	1.130211832	0.902528066	0.727244036	0.603116965	0.528346951	0.500496968	0.516433919	0.545038112	0.545038112		
2011	T7 SWCV - DSL	ROG	CO	0.338094181	0.258602033	0.139105866	0.069621824	0.04901815	0.03744364	0.028832713	0.022905447	0.019455118	0.018328829	0	0	0		
2011	T7 tractor - DSL	ROG	CO	13.7210711	10.47908819	5.472025807	2.57325223	1.782589737	1.41584643	1.135293645	0.93919133	0.824941459	0.788926627	0.826527945	0.879264391	0.879264391		
2011	T7 tractor construction - DSL	ROG	CO	13.01911124	9.917177282	5.158103871	2.397650525	1.724366799	1.369659829	1.141937058	0.958034423	0.843340302	0.795214693	0.810229659	0.846099272	0.846099272		
2011	T7 utility - DSL	ROG	CO	3.434983244	2.625452428	1.407288277	0.702823162	0.509037874	0.404609176	0.324334604	0.266018242	0.227824565	0.208127941	0.205401728	0.211258218	0.211258218		
2011	TBUS - GAS	ROG	CO	10.40034703	6.969565452	4.927165625	3.684029526	2.866678926	2.345981639	2.015287488	1.819716213	1.733312195	1.718038536	1.779006763	1.950165793	2.239466965		
2011	UBUS - DSL	ROG	CO	4.972238226	3.790008958	1.982285653	0.916875987	0.657508028	0.538616908	0.446000113	0.379518156	0.339103293	0.324719008	0.336344021				

2020	T6 instate construction small - DSL	ROG	0.885163551	0.681322553	0.390449225	0.225845868	0.171169741	0.137873489	0.111851288	0.091570063	0.075900013	0.064008512	0.055281923	0.05195929	0.05195929
2020	T6 instate heavy - DSL	ROG	0.373577532	0.300891588	0.207951179	0.147806107	0.108475099	0.080376164	0.059615631	0.044286759	0.032984414	0.024673117	0.018589792	0.016201598	0.016201598
2020	T6 instate small - DSL	ROG	0.658489418	0.509033531	0.297508276	0.176611571	0.13330744	0.106258737	0.085310216	0.069115587	0.05668273	0.047280525	0.040370189	0.037720951	0.037720951
2020	T6 OOS heavy - DSL	ROG	0.333963771	0.268649258	0.184526241	0.130408531	0.095722223	0.071023213	0.05276329	0.039278094	0.029341113	0.022048495	0.016734166	0.014659976	0.014659976
2020	T6 OOS small - DSL	ROG	0.585319209	0.453799619	0.268725329	0.162194108	0.122098319	0.096667996	0.077080562	0.062014534	0.050496076	0.04180754	0.035420072	0.032963088	0.032963088
2020	T6 Public - DSL	ROG	0.576194267	0.415643561	0.271651564	0.16019077	0.116489999	0.090252094	0.070497279	0.055994332	0.045827028	0.039317233	0.035961668	0.035359821	0.035359821
2020	T6 utility - DSL	ROG	0.182249274	0.147603061	0.103953428	0.07520215	0.055111457	0.040613179	0.029928992	0.022055514	0.016253327	0.011977533	0.00882658	0.007577135	0.007577135
2020	T6TS - GAS	ROG	0.771054599	0.494779431	0.336761469	0.240570151	0.181261291	0.143440784	0.119693081	0.105264896	0.09780731	0.09473744	0.096928977	0.105401017	0.102625637
2020	T7 Ag - DSL	ROG	0.962942026	0.706392772	0.393903667	0.1929473856	0.1372908673	0.117822239	0.936719479	0.797487498	0.70784628	0.665207379	0.6656569784	0.687094207	0.687094207
2020	T7 CAIRP - DSL	ROG	0.999345861	0.806097452	0.559382432	0.399225287	0.292898504	0.216756506	0.160533567	0.119038477	0.088445686	0.06593604	0.049432026	0.042936569	0.042936569
2020	T7 CAIRP construction - DSL	ROG	1.021564255	0.802024911	0.5881542	0.392140219	0.288251619	0.214596506	0.160046045	0.1196757	0.089854611	0.06790588	0.051855427	0.045576356	0.045576356
2020	T7 NNOOS - DSL	ROG	0.614590142	0.496590528	0.34681202	0.249034348	0.182683331	0.135003596	0.099819168	0.073855688	0.054700192	0.040574497	0.030168213	0.026047274	0.026047274
2020	T7 NNOOS - DSL	ROG	1.000678311	0.806352438	0.557439064	0.396404445	0.29088138	0.215471429	0.159763987	0.118639549	0.088325409	0.066041353	0.049738565	0.043341429	0.043341429
2020	T7 other port - DSL	ROG	1.278523731	1.034496424	0.726127083	0.52374821	0.383981299	0.283288105	0.209043755	0.154300663	0.113938957	0.084185659	0.062260357	0.053569975	0.053569975
2020	T7 POAK - DSL	ROG	1.446950849	1.170584243	0.821165545	0.591991431	0.434044141	0.320286685	0.236401509	0.174543829	0.128932603	0.095307617	0.070529403	0.060708958	0.060708958
2020	T7 Public - DSL	ROG	0.882703447	0.70374852	0.454796481	0.294409314	0.214909393	0.163427861	0.125014918	0.096653577	0.076107391	0.061711706	0.052219853	0.04908948	0.04908948
2020	T7 Single - DSL	ROG	0.755216895	0.604571902	0.406749774	0.281155766	0.206305189	0.153776254	0.114862024	0.086125749	0.065031199	0.049704844	0.038760595	0.034621287	0.034621287
2020	T7 single construction - DSL	ROG	0.837239983	0.667319204	0.440497356	0.298183292	0.218465921	0.163154016	0.122138271	0.091911424	0.069876151	0.054102423	0.043148701	0.039206919	0.039206919
2020	T7 SWCV - DSL	ROG	0.211096072	0.165180735	0.100707915	0.061483941	0.044287663	0.033076735	0.024791242	0.018847103	0.014813863	0.012374279			
2020	T7 tractor - DSL	ROG	1.204617546	0.962902875	0.66581329	0.470387894	0.34501814	0.255752322	0.189790249	0.14112425	0.105324542	0.079123719	0.060110358	0.052737055	0.052737055
2020	T7 tractor construction - DSL	ROG	1.20635296	0.962505967	0.639727641	0.437269815	0.321405565	0.240565438	0.180539859	0.136113241	0.103434764	0.079657475	0.062672323	0.056264725	0.056264725
2020	T7 utility - DSL	ROG	0.37091385	0.300405594	0.211568723	0.153053373	0.112164272	0.082657	0.060912263	0.044881956	0.033079194	0.024736987	0.017964085	0.015421182	0.015421182
2020	TYIS - GAS	ROG	3.444102336	2.208072575	1.491702207	0.958842844	0.795903583	0.60212896	0.525881225	0.461577439	0.426007890	0.415126099	0.426933931	0.46004765	0.52148705
2020	UBUS - DSL	ROG	3.397015526	2.585972317	1.348053316	0.62235754	0.447047641	0.366573108	0.303843821	0.258626577	0.230808345	0.220328803	0.227751068	0.251351579	0.232888433
2020	UBUS - GAS	ROG	2.377936758	1.629412712	1.172272018	0.882528678	0.70859983	0.584057596	0.504593168	0.458133105	0.437982622	0.429915745	0.445825884	0.487515422	0.565525607

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2025	All Other Buses - DSL	ROG	0.266665452	0.215970901	0.151210319	0.110038418	0.080638375	0.059424681	0.043791715	0.032271344	0.023781659	0.017525372	0.012914938	0.011086766	0.011086766	0	
2025	LDA - DSL	ROG	0.069289028	0.038975685	0.013371235	0.008091537	0.006133014	0.004893849	0.004051378	0.003449161	0.002833272	0.002659569	0.002538215	0.002566703	0.002586655	0	
2025	LDA - GAS	ROG	0.020076698	0.013287346	0.009362494	0.006930148	0.005447311	0.004429826	0.003820153	0.003563063	0.003421752	0.003477665	0.003665419	0.004180876	0.004550619	0	
2025	LDL1 - DSL	ROG	0.199774263	0.10000385	0.041663841	0.026131079	0.020098394	0.0162776	0.013714737	0.011942928	0.010715304	0.009899643	0.009591682	0.010280304	0.01062098	0	
2025	LDL1 - GAS	ROG	0.024313451	0.01616929	0.011440337	0.008497879	0.006696005	0.00545538	0.004707407	0.004385809	0.004204828	0.004261761	0.004477713	0.005083955	0.005520209	0	
2025	LDL2 - DSL	ROG	0.196097169	0.095754288	0.037231555	0.022350222	0.016883082	0.013424764	0.011066733	0.009369344	0.008096382	0.007110644	0.006697973	0.006698809	0.006699391	0	
2025	LDL2 - GAS	ROG	0.024837193	0.0164357	0.011578066	0.008568741	0.006733815	0.005476527	0.00473027	0.004404418	0.004230092	0.004299793	0.004533802	0.00517174	0.005629451	0	
2025	LHD1 - DSL	ROG	0.783361468	0.578356359	0.308103103	0.148901501	0.101112931	0.080141006	0.066825373	0.058189244	0.052737172	0.049707326	0.048774137			0	
2025	LHD1 - GAS	ROG	0.063987092	0.040269729	0.026780882	0.018710549	0.013730921	0.010702775	0.008712163	0.007477768	0.006893431	0.006766178	0.006724604			0	
2025	LHD2 - DSL	ROG	0.745736582	0.557364387	0.27498447	0.110118821	0.067393385	0.051321499	0.041149553	0.034262568	0.0293891	0.025805098	0.023265782			0	
2025	LHD2 - GAS	ROG	0.025266532	0.015901276	0.010574945	0.007388822	0.005421918	0.004226196	0.003440165	0.00295274	0.002722004	0.002671755	0.002655339			0	
2025	MCV - DSL	ROG	8.185837259	5.6099779	4.032258875	3.060283609	2.441572404	2.063813869	1.835327713	1.694724894	1.663310683	1.714066819	1.870293042	2.125837535	2.308011269	0	
2025	MDV - DSL	ROG	0.078624749	0.03842984	0.014984761	0.009012452	0.006813365	0.005422229	0.004474336	0.003793123	0.003283785	0.002891426	0.002730723	0.002734884	0.002743895	0	
2025	MDV - GAS	ROG	0.040340214	0.026846226	0.019005959	0.014124686	0.011133684	0.00907313	0.007829796	0.007923866	0.006991192	0.007083062	0.007437745	0.00840108	0.009161888	0	
2025	MH - DSL	ROG	0.828710677	0.621126623	0.305916312	0.123533062	0.078181312	0.060482323	0.048653353	0.040440386	0.034752714	0.03104296	0.028854689	0.029013081	0.031083361	0	
2025	MH - GAS	ROG	0.097042932	0.061026381	0.040673044	0.028485275	0.021055312	0.016374227	0.013444304	0.011649413	0.01067836	0.010246851	0.010406445	0.0112781897		0	
2025	Motor Coach - DSL	ROG	0.504858993	0.408882555	0.287966542	0.208321201	0.152666978	0.112505481	0.082907783	0.061097072	0.045024147	0.033179557	0.024450947	0.020899796	0.020899796	0	
2025	OBUS - GAS	ROG	0.074714291	0.0469848	0.031314569	0.021931088	0.016210688	0.012606575	0.010349926	0.008968788	0.008221373	0.007889149	0.008012022	0.008619975	0.009840966	0	
2025	PTO - DSL	ROG				0.194974043										0	
2025	SBUS - DSL	ROG	0.280581202	0.226228397	0.156782576	0.111808821	0.082100278	0.060836659	0.045124527	0.033514228	0.024937469	0.018606998	0.013942664	0.012096913	0	0	
2025	SBUS - GAS	ROG	0.058459106	0.036869776	0.024473278	0.017141851	0.012658224	0.009861381	0.008089099	0.007005209	0.006040489	0.006199931	0.006231269	0.006714759		0	
2025	T6 Ag - DSL	ROG	0.290930226	0.235622809	0.165943704	0.120047251	0.087975928	0.06483193	0.047776469	0.035207821	0.025945631	0.019120064	0.014090111	0.012095588	0.012095588	0	
2025	T6 CAIRP heavy - DSL	ROG	0.227409684	0.184177869	0.129712219	0.093836614	0.068767616	0.050676786	0.037345146	0.027520686	0.020280766	0.014945465	0.011013733	0.009454685	0.009454685	0	
2025	T6 CAIRP small - DSL	ROG	0.215246538	0.174327001	0.122774482	0.088817705	0.065089538	0.047966307	0.035347718	0.026048725	0.019196036	0.014146098	0.010424657	0.008948996	0.008948996	0	
2025	T6 instate construction heavy - DSL	ROG	0.259584018	0.210225334	0.148029491	0.107069021	0.078465022	0.057825181	0.042614859	0.031405928	0.023145955	0.017059366	0.012574616	0.010796618	0.010796618	0	
2025	T6 instate construction small - DSL	ROG	0.237226724	0.192117897	0.135276611	0.097843803	0.071705127	0.052844334	0.038944945	0.028701931	0.021153578	0.015591171	0.011492437	0.009867372	0.009867372	0	
2025	T6 instate heavy - DSL	ROG	0.244873354	0.198321598	0.139673323	0.101042691	0.074048547	0.0545									

ROG Emissions All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00014	0.00080	0.00245	0.01566	0.00665	0.00595	0.00815	0.00476	0.00704	0.00631	0.01307	0.01732	0.00297	0.00000	0.09
0.00021	0.00106	0.00418	0.04043	0.01898	0.01741	0.02534	0.01600	0.02536	0.02368	0.04932	0.06803	0.01334	0.00355	0.31
0.02415	0.11485	0.45917	4.53656	2.09310	1.87268	2.66357	1.64906	2.55894	2.36102	4.85023	6.60410	1.28239	0.34008	31.41
0.00002	0.00008	0.00034	0.00341	0.00162	0.00149	0.00217	0.00137	0.00218	0.00204	0.00426	0.00589	0.00116	0.00031	0.03
0.00603	0.02914	0.11819	1.18013	0.54892	0.49418	0.70548	0.43733	0.67755	0.62353	1.27599	1.72705	0.33276	0.08788	8.24
0.00000	0.00001	0.00004	0.00045	0.00021	0.00020	0.00029	0.00018	0.00029	0.00027	0.00057	0.00078	0.00015	0.00004	0.00
0.00892	0.04200	0.16580	1.62479	0.74390	0.65890	0.92813	0.56932	0.87864	0.80212	1.62858	2.19851	0.42422	0.11211	10.79
0.00271	0.01370	0.05417	0.52339	0.24567	0.22534	0.32783	0.20694	0.32801	0.30634	0.63787	0.00000	0.00000	0.00000	2.87
0.00174	0.00823	0.03282	0.32175	0.14707	0.13129	0.18519	0.11385	0.17885	0.16755	0.34001	0.00000	0.00000	0.00000	1.63
0.00051	0.00257	0.00980	0.09083	0.04213	0.03850	0.05584	0.03514	0.05552	0.05166	0.10719	0.00000	0.00000	0.00000	0.49
0.00016	0.00075	0.00299	0.02936	0.01346	0.01204	0.01704	0.01051	0.01652	0.01545	0.03149	0.00000	0.00000	0.00000	0.15
0.01433	0.06905	0.28204	2.80317	1.30019	1.17801	1.69506	1.06002	1.64802	1.54088	3.22638	4.44272	0.86710	0.23082	20.36
0.00003	0.00015	0.00056	0.00497	0.00228	0.00208	0.00301	0.00189	0.00297	0.00276	0.00570	0.00782	0.00153	0.00041	0.04
0.01050	0.04893	0.19104	1.85828	0.84527	0.74304	1.03974	0.63424	0.97664	0.88696	1.79018	2.40931	0.46458	0.12272	12.02
0.00005	0.00030	0.00090	0.00558	0.00238	0.00216	0.00300	0.00178	0.00265	0.00236	0.00481	0.00665	0.00131	0.00000	0.03
0.00031	0.00153	0.00628	0.06347	0.02988	0.02727	0.03955	0.02492	0.03935	0.03693	0.07720	0.10633	0.02072	0.00000	0.47
0.00012	0.00068	0.00202	0.01259	0.00535	0.00468	0.00625	0.00357	0.00517	0.00459	0.00952	0.01273	0.00218	0.00000	0.07
0.00014	0.00063	0.00244	0.02335	0.01047	0.00913	0.01272	0.00774	0.01192	0.01086	0.02224	0.03033	0.00592	0.00000	0.15
0.00000	0.00000	0.00000	0.11673	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.12
0.00038	0.00213	0.00662	0.04226	0.01793	0.01621	0.02245	0.01326	0.01974	0.01772	0.03657	0.04826	0.00000	0.00000	0.24
0.00023	0.00110	0.00445	0.04450	0.02078	0.01881	0.02716	0.01704	0.02686	0.02480	0.05300	0.07244	0.00000	0.00000	0.31
0.00119	0.00661	0.02079	0.13356	0.05674	0.05197	0.07293	0.04356	0.06526	0.05853	0.11977	0.15703	0.02691	0.00000	0.81
0.00008	0.00042	0.00125	0.00784	0.00337	0.00302	0.00412	0.00240	0.00353	0.00314	0.00647	0.00854	0.00146	0.00000	0.05
0.00017	0.00095	0.00282	0.01810	0.00797	0.00721	0.00997	0.00584	0.00851	0.00738	0.01460	0.01886	0.00323	0.00000	0.11
0.00028	0.00153	0.00460	0.02881	0.01225	0.01090	0.01486	0.00866	0.01279	0.01150	0.02406	0.03206	0.00549	0.00000	0.17
0.00124	0.00677	0.02024	0.12906	0.05622	0.05051	0.06937	0.04044	0.05907	0.05177	0.10419	0.13596	0.02330	0.00000	0.75
0.00497	0.02733	0.08338	0.52936	0.22666	0.20454	0.28262	0.16630	0.24635	0.21986	0.45142	0.59441	0.10187	0.00000	3.14
0.00919	0.05011	0.15057	0.96867	0.42508	0.38584	0.53510	0.31419	0.45976	0.40037	0.79425	1.02631	0.17589	0.00000	5.70
0.00004	0.00024	0.00071	0.00449	0.00193	0.00173	0.00236	0.00138	0.00202	0.00180	0.00371	0.00490	0.00084	0.00000	0.03
0.00010	0.00054	0.00162	0.01037	0.00457	0.00413	0.00571	0.00334	0.00487	0.00423	0.00837	0.01081	0.00185	0.00000	0.06
0.00026	0.00145	0.00465	0.03072	0.01313	0.01203	0.01688	0.01006	0.01498	0.01327	0.02671	0.03468	0.00594	0.00000	0.18
0.00003	0.00015	0.00047	0.00329	0.00145	0.00128	0.00174	0.00099	0.00141	0.00119	0.00227	0.00288	0.00049	0.00000	0.02
0.00017	0.00062	0.00225	0.02240	0.10387	0.09357	0.13414	0.08373	0.13121	0.12233	0.25447	0.34944	0.06801	0.00000	1.59
0.00064	0.00359	0.01129	0.07219	0.03049	0.02771	0.03859	0.02289	0.03411	0.03046	0.06202	0.08151	0.01397	0.00000	0.43
0.01019	0.05537	0.16410	1.03788	0.45181	0.40404	0.55199	0.32019	0.46610	0.40796	0.82167	1.07521	0.18427	0.00000	5.95
0.00031	0.00166	0.00491	0.03169	0.01422	0.01308	0.01835	0.01083	0.01577	0.01348	0.02585	0.03275	0.00561	0.00000	0.19
0.00864	0.04699	0.14135	0.93327	0.41511	0.37597	0.51966	0.30298	0.43730	0.37228	0.71590	0.91007	0.15597	0.00000	5.34
0.00402	0.02187	0.06482	0.40996	0.17846	0.15959	0.21804	0.12648	0.18411	0.16114	0.32456	0.42471	0.07279	0.00000	2.35
0.00004	0.00020	0.00059	0.00369	0.00165	0.00152	0.00214	0.00127	0.00186	0.00161	0.00315	0.00403	0.00069	0.00000	0.02
0.00009	0.00049	0.00144	0.00892	0.00394	0.00360	0.00503	0.00296	0.00435	0.00380	0.00754	0.00975	0.00167	0.00000	0.05
0.00059	0.00336	0.01111	0.07747	0.03335	0.03041	0.04248	0.02511	0.03684	0.03186	0.06199	0.07907	0.01355	0.00000	0.45
0.00535	0.02953	0.09105	0.58787	0.25267	0.22829	0.31560	0.18538	0.27282	0.24027	0.48341	0.63082	0.10811	0.00000	3.43
0.00068	0.00374	0.01118	0.06982	0.02967	0.02615	0.03523	0.02026	0.02953	0.02621	0.05401	0.07197	0.01233	0.00000	0.39
0.00006	0.00032	0.00100	0.00673	0.00283	0.00239	0.00307	0.00169	0.00239	0.00211	0.00000	0.00000	0.00000	0.00000	0.02
0.00816	0.04472	0.13401	0.83215	0.35085	0.30760	0.41242	0.23653	0.34570	0.30983	0.64818	0.87050	0.14919	0.00000	4.65
0.00077	0.00421	0.01256	0.07850	0.03375	0.03018	0.04125	0.02399	0.03514	0.03105	0.06318	0.08329	0.01428	0.00000	0.45
0.00001	0.00007	0.00023	0.00151	0.00066	0.00057	0.00077	0.00044	0.00062	0.00053	0.00105	0.00137	0.00023	0.00000	0.01
0.00047	0.00224	0.00909	0.09139	0.04251	0.03840	0.05516	0.03453	0.05473	0.05083	0.10511	0.14547	0.02863	0.00000	0.66
0.00138	0.00758	0.02274	0.14140	0.06061	0.05481	0.07589	0.04477	0.06656	0.05973	0.12354	0.17344	0.03479	0.00000	0.87
0.00042	0.00206	0.00850	0.08616	0.04095	0.03740	0.05424	0.03420	0.05427	0.05050	0.10510	0.14508	0.02859	0.00000	0.65

128.33 2011 Tons/Year

Emissions (Tons)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00001	0.00007	0.00028	0.00237	0.00103	0.00087	0.00108	0.00055	0.00070	0.00050	0.00078	0.00087	0.00015	0.00000	0.01
0.00000	0.00106	0.00384	0.02504	0.01055	0.00970	0.01364	0.00823	0.01279	0.01153	0.02335	0.03087	0.00582	0.00157	0.16
0.00000	0.02811	0.12156	1.04523	0.46120	0.41642	0.56590	0.33404	0.52401	0.47066	0.96151	1.25704	0.24020	0.06563	6.49
0.00000	0.00003	0.00012	0.00101	0.00047	0.00044	0.00064	0.00039	0.00063	0.00058	0.00123	0.00166	0.00032	0.00009	0.01
0.00000	0.00507	0.02244	0.19682	0.08834	0.08076	0.11088	0.06581	0.10297	0.09213	0.18664	0.24158	0.04542	0.01230	1.25
0.00000	0.00007	0.00024	0.00123	0.00046	0.00041	0.00055	0.00032	0.00047	0.00039	0.00074	0.00092	0.00016	0.00004	0.01

0.00000	0.01455	0.06286	0.54006	0.23804	0.21467	0.29130	0.17165	0.26894	0.24116	0.49184	0.64182	0.12244	0.03343	3.33
0.00194	0.00944	0.03909	0.31089	0.14061	0.13227	0.18987	0.11702	0.18609	0.17210	0.35851	0.00000	0.00000	0.00000	1.66
0.00051	0.00229	0.01025	0.08993	0.04041	0.03715	0.05172	0.03106	0.04931	0.04624	0.09377	0.00000	0.00000	0.00000	0.45
0.00046	0.00230	0.00853	0.05770	0.02467	0.02279	0.03220	0.01952	0.03049	0.02765	0.05639	0.00000	0.00000	0.00000	0.28
0.00004	0.00017	0.00073	0.00634	0.00282	0.00257	0.00355	0.00212	0.00334	0.00312	0.00630	0.00000	0.00000	0.00000	0.03
0.00000	0.05312	0.23890	2.09912	0.95252	0.87494	1.24308	0.76103	1.18381	1.09360	2.27955	3.11368	0.59635	0.16300	14.65
0.00000	0.00038	0.00126	0.00677	0.00261	0.00232	0.00317	0.00185	0.00276	0.00238	0.00457	0.00578	0.00105	0.00028	0.04
0.00000	0.02000	0.08765	0.76106	0.33927	0.30862	0.42428	0.25280	0.39622	0.35784	0.73317	0.96555	0.18407	0.05021	4.88
0.00004	0.00020	0.00066	0.00357	0.00148	0.00137	0.00189	0.00110	0.00164	0.00144	0.00291	0.00391	0.00075	0.00000	0.02
0.00008	0.00035	0.00159	0.01426	0.00656	0.00610	0.00868	0.00533	0.00847	0.00781	0.01633	0.02215	0.00429	0.00000	0.10
0.00002	0.00009	0.00040	0.00343	0.00149	0.00126	0.00156	0.00080	0.00100	0.00071	0.00108	0.00118	0.00020	0.00000	0.01
0.00004	0.00019	0.00080	0.00679	0.00297	0.00264	0.00360	0.00213	0.00329	0.00295	0.00604	0.00808	0.00155	0.00000	0.04
0.00000	0.00000	0.00000	0.03486	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.03
0.00006	0.00029	0.00106	0.00699	0.00297	0.00261	0.00337	0.00182	0.00253	0.00211	0.00412	0.00524	0.00000	0.00000	0.03
0.00003	0.00012	0.00051	0.00435	0.00190	0.00169	0.00230	0.00136	0.00209	0.00189	0.00383	0.00513	0.00000	0.00000	0.03
0.00053	0.00282	0.01012	0.06033	0.02547	0.02393	0.03318	0.01933	0.02896	0.02558	0.05199	0.06663	0.01122	0.00000	0.36
0.00001	0.00003	0.00015	0.00126	0.00055	0.00046	0.00057	0.00029	0.00036	0.00025	0.00038	0.00041	0.00007	0.00000	0.00
0.00003	0.00017	0.00066	0.00483	0.00215	0.00194	0.00257	0.00141	0.00193	0.00149	0.00255	0.00295	0.00050	0.00000	0.02
0.00004	0.00021	0.00089	0.00721	0.00313	0.00267	0.00334	0.00172	0.00222	0.00162	0.00265	0.00303	0.00051	0.00000	0.03
0.00043	0.00225	0.00832	0.05817	0.02606	0.02395	0.03228	0.01801	0.02511	0.01980	0.03445	0.04026	0.00678	0.00000	0.30
0.00072	0.00394	0.01760	0.15130	0.06564	0.05550	0.06837	0.03462	0.04336	0.03033	0.04603	0.04988	0.00840	0.00000	0.58
0.00344	0.01813	0.06848	0.49154	0.21933	0.19948	0.26602	0.14689	0.20259	0.15805	0.27180	0.31578	0.05319	0.00000	2.41
0.00000	0.00002	0.00008	0.00072	0.00031	0.00027	0.00033	0.00017	0.00021	0.00015	0.00022	0.00025	0.00004	0.00000	0.00
0.00002	0.00010	0.00038	0.00277	0.00123	0.00111	0.00147	0.00081	0.00111	0.00086	0.00146	0.00169	0.00028	0.00000	0.01
0.00002	0.00013	0.00051	0.00364	0.00156	0.00138	0.00179	0.00097	0.00134	0.00107	0.00197	0.00241	0.00041	0.00000	0.02
0.00000	0.00002	0.00009	0.00077	0.00033	0.00028	0.00034	0.00017	0.00021	0.00015	0.00022	0.00023	0.00004	0.00000	0.00
0.00019	0.00085	0.00375	0.03240	0.01443	0.01303	0.01806	0.01083	0.01692	0.01533	0.03160	0.04256	0.00823	0.00000	0.21
0.00034	0.00180	0.00646	0.03833	0.01612	0.01511	0.02085	0.01210	0.01806	0.01587	0.03203	0.04105	0.00691	0.00000	0.23
0.00114	0.00629	0.02823	0.24364	0.10567	0.08923	0.10976	0.05547	0.06931	0.04833	0.07298	0.07882	0.01327	0.00000	0.92
0.00005	0.00029	0.00129	0.01097	0.00477	0.00405	0.00502	0.00256	0.00323	0.00228	0.00351	0.00384	0.00065	0.00000	0.04
0.00087	0.00481	0.02170	0.18845	0.08172	0.06891	0.08463	0.04268	0.05316	0.03688	0.05523	0.05929	0.00999	0.00000	0.71
0.00045	0.00249	0.01111	0.09556	0.04145	0.03504	0.04315	0.02184	0.02734	0.01912	0.02900	0.03143	0.00529	0.00000	0.36
0.00002	0.00010	0.00045	0.00389	0.00169	0.00142	0.00174	0.00088	0.00109	0.00075	0.00112	0.00120	0.00020	0.00000	0.01
0.00004	0.00022	0.00101	0.00878	0.00380	0.00320	0.00393	0.00198	0.00245	0.00170	0.00253	0.00271	0.00046	0.00000	0.03
0.00013	0.00073	0.00306	0.02395	0.01033	0.00897	0.01139	0.00600	0.00795	0.00603	0.01027	0.01201	0.00202	0.00000	0.10
0.00088	0.00483	0.02100	0.17556	0.07615	0.06477	0.08036	0.04107	0.05215	0.03728	0.05855	0.06503	0.01095	0.00000	0.69
0.00011	0.00062	0.00264	0.02158	0.00935	0.00797	0.00990	0.00508	0.00649	0.00470	0.00755	0.00854	0.00144	0.00000	0.09
0.00005	0.00024	0.00095	0.00702	0.00299	0.00255	0.00317	0.00164	0.00217	0.00170	0.00000	0.00000	0.00000	0.00000	0.02
0.00092	0.00507	0.02252	0.19236	0.08341	0.07055	0.08696	0.04407	0.05531	0.03886	0.05946	0.06487	0.01093	0.00000	0.74
0.00012	0.00066	0.00285	0.02360	0.01025	0.00876	0.01092	0.00561	0.00717	0.00516	0.00818	0.00913	0.00154	0.00000	0.09
0.00000	0.00001	0.00004	0.00033	0.00014	0.00012	0.00015	0.00007	0.00009	0.00006	0.00009	0.00010	0.00002	0.00000	0.00
0.00011	0.00048	0.00209	0.01793	0.00797	0.00720	0.00998	0.00597	0.00926	0.00844	0.01748	0.02343	0.00448	0.00000	0.11
0.00067	0.00348	0.01171	0.06540	0.02777	0.02598	0.03577	0.02075	0.03115	0.02781	0.05774	0.07945	0.01559	0.00000	0.40
0.00022	0.00101	0.00468	0.04257	0.02020	0.01900	0.02727	0.01687	0.02713	0.02491	0.05202	0.07073	0.01382	0.00000	0.32

42.35 2020 Tons/Year

Emissions (Tons)	2035														
	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00002	0.00012	0.00031	0.00163	0.00067	0.00074	0.00096	0.00055	0.00046	0.00037	0.00042	0.00041	0.00005	0.00000	0.00000	0.01
0.00000	0.00217	0.00388	0.01111	0.00378	0.00429	0.00601	0.00388	0.00371	0.00360	0.00488	0.00523	0.00060	0.00020	0.00000	0.05
0.00000	0.04608	0.11122	0.56949	0.23705	0.27924	0.39809	0.26801	0.28059	0.30034	0.46691	0.55294	0.07206	0.02638	3.61	
0.00000	0.00002	0.00004	0.00012	0.00004	0.00005	0.00007	0.00005	0.00004	0.00004	0.00006	0.00007	0.00001	0.00000	0.00	
0.00000	0.00441	0.01070	0.05501	0.02298	0.02714	0.03876	0.02611	0.02730	0.02918	0.04523	0.05339	0.00693	0.00253	0.35	
0.00000	0.00048	0.00086	0.00242	0.00082	0.00092	0.00129	0.00083	0.00079	0.00076	0.00102	0.00108	0.00012	0.00004	0.01	
0.00000	0.02791	0.06736	0.34483	0.14352	0.16902	0.24098	0.16225	0.16982	0.18180	0.28267	0.33489	0.04365	0.01598	2.18	
0.00363	0.02102	0.04084	0.14342	0.05477	0.06505	0.09509	0.06465	0.06576	0.06909	0.10369	0.00000	0.00000	0.00000	0.73	
0.00017	0.00082	0.00199	0.01008	0.00416	0.00486	0.00693	0.00465	0.00481	0.00526	0.00800	0.00000	0.00000	0.00000	0.05	
0.00146	0.00859	0.01546	0.04499	0.01548	0.01767	0.02484	0.01614	0.01554	0.01524	0.02098	0.00000	0.00000	0.00000	0.20	
0.00002	0.00010	0.00024	0.00123	0.00051	0.00059	0.00084	0.00056	0.00058	0.00064	0.00097	0.00000	0.00000	0.00000	0.01	
0.00000	0.22219	0.55530	2.90044	1.23791	1.48009	2.19324	1.52269	1.57824	1.72648	2.72143	3.33648	0.43330	0.15820	20.07	
0.00000	0.00112	0.00200	0.00566	0.00191	0.00217	0.00303	0.00195	0.00185	0.00179	0.00241	0.00256	0.00029	0.00010	0.03	
0.00000	0.02092	0.05077	0.26120	0.10916	0.12895	0.18422	0.12411	0.12978	0.13864	0.21486	0.25350	0.03287	0.01200	1.66	
0.00007	0.00039	0.00069	0.00204	0.00073	0.00084	0.00119	0.00077	0.00074	0.00074	0.00105	0.00119	0.00015	0.00000	0.01	

0.00003	0.00013	0.00032	0.00163	0.00068	0.00079	0.00114	0.00077	0.00079	0.00085	0.00132	0.00159	0.00021	0.00000	0.01
0.00004	0.00023	0.00058	0.00305	0.00126	0.00139	0.00180	0.00103	0.00085	0.00070	0.00079	0.00076	0.00009	0.00000	0.01
0.00004	0.00020	0.00049	0.00247	0.00103	0.00120	0.00172	0.00117	0.00120	0.00128	0.00199	0.00241	0.00031	0.00000	0.02
0.00000	0.00000	0.00000	0.05888	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06
0.00007	0.00046	0.00117	0.00604	0.00249	0.00277	0.00360	0.00209	0.00174	0.00145	0.00166	0.00162	0.00000	0.00000	0.03
0.00001	0.00005	0.00012	0.00062	0.00026	0.00030	0.00044	0.00029	0.00030	0.00033	0.00050	0.00061	0.00000	0.00000	0.00
0.00013	0.00082	0.00211	0.01110	0.00458	0.00505	0.00653	0.00376	0.00311	0.00255	0.00288	0.00277	0.00032	0.00000	0.05
0.00002	0.00012	0.00031	0.00165	0.00068	0.00075	0.00097	0.00056	0.00046	0.00038	0.00043	0.00041	0.00005	0.00000	0.01
0.00006	0.00036	0.00091	0.00480	0.00198	0.00219	0.00282	0.00162	0.00134	0.00110	0.00124	0.00120	0.00014	0.00000	0.02
0.00013	0.00081	0.00208	0.01095	0.00451	0.00498	0.00644	0.00371	0.00307	0.00252	0.00284	0.00274	0.00031	0.00000	0.05
0.00076	0.00484	0.01244	0.06536	0.02694	0.02975	0.03844	0.02212	0.01830	0.01503	0.01695	0.01635	0.00187	0.00000	0.27
0.00304	0.01931	0.04960	0.26077	0.10747	0.11868	0.15333	0.08821	0.07297	0.05993	0.06756	0.06516	0.00745	0.00000	1.07
0.00723	0.04593	0.11796	0.62014	0.25557	0.28225	0.36463	0.20978	0.17352	0.14253	0.16066	0.15496	0.01771	0.00000	2.55
0.00001	0.00007	0.00018	0.00095	0.00039	0.00043	0.00056	0.00032	0.00027	0.00022	0.00025	0.00024	0.00003	0.00000	0.00
0.00003	0.00020	0.00052	0.00275	0.00113	0.00125	0.00162	0.00093	0.00077	0.00063	0.00071	0.00069	0.00008	0.00000	0.01
0.00002	0.00015	0.00036	0.00179	0.00074	0.00082	0.00108	0.00063	0.00054	0.00047	0.00057	0.00059	0.00007	0.00000	0.01
0.00001	0.00009	0.00023	0.00123	0.00051	0.00056	0.00072	0.00042	0.00034	0.00028	0.00032	0.00031	0.00004	0.00000	0.01
0.00008	0.00040	0.00096	0.00491	0.00204	0.00238	0.00342	0.00231	0.00238	0.00255	0.00396	0.00478	0.00062	0.00000	0.03
0.00009	0.00059	0.00151	0.00796	0.00328	0.00362	0.00468	0.00269	0.00223	0.00183	0.00206	0.00199	0.00023	0.00000	0.03
0.00303	0.01926	0.04945	0.25999	0.10715	0.11833	0.15287	0.08795	0.07275	0.05975	0.06735	0.06497	0.00742	0.00000	1.07
0.00020	0.00129	0.00331	0.01742	0.00718	0.00793	0.01024	0.00589	0.00488	0.00401	0.00452	0.00436	0.00050	0.00000	0.07
0.00329	0.02088	0.05363	0.28194	0.11619	0.12832	0.16578	0.09537	0.07889	0.06480	0.07304	0.07045	0.00805	0.00000	1.16
0.00120	0.00761	0.01955	0.10276	0.04235	0.04677	0.06042	0.03476	0.02875	0.02362	0.02662	0.02568	0.00293	0.00000	0.42
0.00004	0.00027	0.00070	0.00368	0.00152	0.00168	0.00217	0.00125	0.00103	0.00085	0.00095	0.00092	0.00011	0.00000	0.02
0.00013	0.00080	0.00205	0.01079	0.00445	0.00491	0.00634	0.00365	0.00302	0.00248	0.00280	0.00270	0.00031	0.00000	0.04
0.00034	0.00216	0.00535	0.02714	0.01117	0.01241	0.01615	0.00938	0.00788	0.00665	0.00786	0.00785	0.00090	0.00000	0.12
0.00346	0.02196	0.05640	0.29651	0.12220	0.13495	0.17434	0.10030	0.08297	0.06815	0.07682	0.07409	0.00847	0.00000	1.22
0.00044	0.00277	0.00711	0.03734	0.01539	0.01700	0.02196	0.01264	0.01046	0.00860	0.00970	0.00937	0.00107	0.00000	0.15
0.00010	0.00062	0.00152	0.00754	0.00309	0.00343	0.00445	0.00259	0.00218	0.00187	0.00000	0.00000	0.00000	0.00000	0.03
0.00214	0.01362	0.03498	0.18389	0.07579	0.08370	0.10812	0.06221	0.05146	0.04226	0.04764	0.04595	0.00525	0.00000	0.76
0.00041	0.00260	0.00666	0.03503	0.01443	0.01594	0.02060	0.01185	0.00980	0.00805	0.00908	0.00876	0.00100	0.00000	0.14
0.00001	0.00004	0.00010	0.00054	0.00022	0.00024	0.00032	0.00018	0.00015	0.00012	0.00014	0.00013	0.00002	0.00000	0.00
0.00028	0.00140	0.00338	0.01716	0.00715	0.00836	0.01206	0.00816	0.00836	0.00900	0.01406	0.01693	0.00219	0.00000	0.11
0.00045	0.00264	0.00486	0.01569	0.00623	0.00746	0.01060	0.00692	0.00687	0.00735	0.01181	0.01510	0.00207	0.00000	0.10
0.00004	0.00019	0.00047	0.00237	0.00099	0.00116	0.00167	0.00113	0.00116	0.00124	0.00192	0.00232	0.00030	0.00000	0.01

0.01 ROG
38.62 2035 Tons/Year

Mobile Emissions Calculations - NO_x

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

NOx Emissions All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	16.74	4.10	413	
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	81.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,742
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,242	
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,366
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,467
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.48%	185.03	1262.24	8159.01	98660.05	58323.61	66549.64	110538.57	75396.98	126695.73	118496.99	238667.19	296763.34	49982.34	12588.39	1,262,209
2020	LDT1 - DSL		0.01%	0.03	0.18	1.17	14.17	8.38	9.56	15.88	10.82	18.20	17.02	34.28	42.62	7.18	1.81	181
2020	LDT1 - GAS		4.25%	16.57	113.02	730.56	8834.04	5222.31	5958.86	9897.64	6745.68	11344.35	10610.24	21370.30	26572.23	4475.43	1127.17	113,018
2020	LDT2 - DSL		0.04%	0.14	0.97	6.24	75.45	44.60	50.89	84.53	57.61	96.89	90.62	182.52	226.95	38.22	9.63	965
2020	LDT2 - GAS		20.91%	81.50	555.94	3593.57	43453.99	25688.15	29111.23	48685.79	33181.54	55802.08	52191.01	105118.97	130706.93	22014.31	5544.45	555,929
2020	LHD1 - DSL		1.58%	6.17	42.11	272.1												

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6T5 - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.44	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	266827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check	194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86		

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	10.79	16.51	18.55	2.12	0.71	97	
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	89099.41	100808.50	112360.01	171867.32	193108.90	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	1,830
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,946
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9968.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055
2035																		

VMT check | 712.68 | 6123.505 | 22675.305 | 154298.405 | 81264.315 | 125706.57 | 217971.84 | 185601.78 | 212234.53 | 242968.585 | 374146.69 | 422137.835 | 48270.03 | 16232.93

Emissions Summary - BAU

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2011	All Other Buses - DSL		Nox	23.73616974	19.72269511	13.95648417	10.9518084	10.19406187	9.792128901	9.493534656	9.287355875	9.152470839	9.126268837	9.186814777	9.242159903	9.216624444	0
2011	LDA - DSL		Nox	0.696668169	0.719269834	0.736834915	0.759471781	0.789063604	0.822315842	0.857031162	0.892643739	0.927536296	0.964941904	1.002918344	1.040750364	1.082191084	1.096834066
2011	LDA - GAS		Nox	0.33672796	0.293528285	0.263363792	0.238507406	0.21997725	0.207898236	0.199627633	0.194620468	0.190281655	0.192205237	0.197179236	0.203920308	0.213310123	0.219797827
2011	LD1 - DSL		Nox	0.93770249	0.980179143	1.021733005	1.065547086	1.113199178	1.163599428	1.215173886	1.267503508	1.318483865	1.372818642	1.427815014	1.482251361	1.536555029	
2011	LD1 - GAS		Nox	0.724686447	0.617239689	0.544626961	0.486919037	0.445332542	0.419314419	0.402567072	0.393657928	0.387004317	0.394773608	0.410753548	0.432180565	0.461697970	0.481777972
2011	LD2 - DSL		Nox	0.998839221	1.048301093	1.098828028	1.150165668	1.203660033	1.259319826	1.315952338	1.373230975	1.428939489	1.482211275	1.548150466	1.607365038	1.665328416	1.694588802
2011	LD2 - GAS		Nox	0.551284496	0.471441993	0.415367849	0.36960692	0.335366721	0.312405232	0.296290533	0.286032951	0.277634947	0.279545671	0.286979767	0.298160931	0.314691348	0.32630599
2011	LHD1 - DSL		Nox	4.364534297	4.568405511	4.77390839	4.985553892	5.230344559	5.460826005	5.724926783	5.988744238	6.227398086	6.467675597	6.748004329			
2011	LHD1 - GAS		Nox	0.854019048	0.757942007	0.683958323	0.6317693	0.598569056	0.56766908	0.557925416	0.557985097	0.543494444	0.526693018	0.560348483			
2011	LHD2 - DSL		Nox	3.820180526	4.048319037	4.141614946	4.31044558	4.514860608	4.709766521	4.936444369	5.159897222	5.363846011	5.569451768	5.809721326			
2011	LHD2 - GAS		Nox	0.742866696	0.661244693	0.598551737	0.554561583	0.52691264	0.501133024	0.493657096	0.494658889	0.482826351	0.468852434	0.498871722			
2011	MCY - GAS		Nox	1.298070433	1.235148837	1.204276438	1.174838922	1.15833088	1.161154223	1.171983086	1.18906632	1.198708906	1.234445394	1.281263605	1.324415167	1.366300793	1.392044343
2011	MDV - DSL		Nox	0.357133584	0.325295361	0.337642021	0.33139633	0.336103594	0.345604121	0.356912725	0.369289387	0.381805158	0.395646899	0.409924027	0.424616904	0.439439301	0.446924697
2011	MDV - GAS		Nox	0.741606101	0.631462764	0.554378002	0.491952007	0.445464575	0.414383599	0.392717473	0.379097117	0.368192368	0.371234961	0.381917742	0.392172038	0.403334593	
2011	MH - DSL		Nox	19.16969986	15.96081992	11.16183056	8.506970194	7.83018582	7.432910333	7.136711205	6.928090278	6.789077108	6.746336006	6.782941444	6.893197311	7.067912105	
2011	MH - GAS		Nox	17.19578525	15.90656645	14.83277288	14.169870449	13.7411724	13.50741778	13.44133322	13.49634996	1.355927638	1.397125955	1.440927196	1.47948757	1.50713307	
2011	Motor Coach - DSL		Nox	37.55786024	30.72258695	21.39343269	16.38428385	15.05055131	14.32930954	13.79491313	13.44157481	13.17044349					
2011	OBUS - GAS		Nox	2.654985076	2.316521395	2.037116597	1.834374048	1.677219556	1.565048833	1.483121042	1.427201668	1.385297328	1.386848842	1.403047325	1.427722984	1.457316453	
2011	PTO - DSL		Nox				16.74711588										
2011	SBUS - DSL		Nox	25.60395245	21.18402685	14.87528215	11.63160832	10.85941824	10.44902887	10.14680831	9.942601971	9.834424656	9.814904703	9.927086519	9.992810179		
2011	SBUS - GAS		Nox	2.865025048	2.541259644	2.306560724	2.129317242	2.000961282	1.909401659	1.85568728	1.825096642	1.814843999	1.812870732	1.891345157	1.931154333		
2011	T6 Ag - DSL		Nox	29.19011634	24.3179608	17.22397988	13.56637775	12.64966219	12.12754313	11.74681568	11.49194561	11.34075466	11.34212557	11.47078655	11.57259689	11.54062259	
2011	T6 CAIRP heavy - DSL		Nox	22.23238635	18.48833713	13.051652	10.12705115	9.29360127	8.8296921	8.475591074	8.22154432	8.047930736	7.986390523	8.019244286	8.063130488	8.048052607	
2011	T6 CAIRP small - DSL		Nox	18.95873895	15.95393269	11.52856493	8.984042599	8.090490848	7.561614684	7.146663791	6.833379854	6.604542283	6.486234935	6.461782157	6.478932303	6.41031454	
2011	T6 instate construction heavy - DSL		Nox	24.43445983	20.20062187	14.10606712	10.93463016	10.14830929	9.73272472	9.424827283	9.214010953	9.07936442	9.059508826	9.131978701	9.194163246	9.168760398	
2011	T6 instate construction small - DSL		Nox	19.8072762	16.58087644	11.87705447	9.249148926	8.397868094	7.906737688	7.526312361	7.24385635	7.041117376	6.945911008	6.940575409	6.965078769	6.945834731	
2011	T6 instate heavy - DSL		Nox	23.58401936	19.64620523	13.91053509	10.85209134	9.52694834	9.167817681	8.913129686	8.743105854	8.693903057	8.744841682	8.800543915	8.776286113		
2011	T6 instate small - DSL		Nox	19.3006946	16.25378051	11.75728074	9.181079094	8.285043867	7.755130896	7.339859861	7.027222476	6.799796473	6.684592133	6.664541701	6.684282983	6.666360101	
2011	T6 OOS heavy - DSL		Nox	22.23238635	18.48833713	13.051652	10.12705115	9.29360127	8.8296921	8.475591074	8.22154432	8.047930736	7.986390523	8.019244286	8.063130488	8.048052607	
2011	T6 OOS small - DSL		Nox	18.95873895	15.95393269	11.52856493	8.984042599	8.090490848	7.561614684	7.146663791	6.833379854	6.604542283	6.486234935	6.461782157	6.478932303	6.41031454	
2011	T6 Public - DSL		Nox	22.1552725	18.57821155	13.37964367	10.62008546	9.84312264	9.403317698	9.072416325	8.840900325	8.689316293	8.653800257	8.773105394	8.772415346	8.74817776	
2011	T6 utility - DSL		Nox	14.07729017	11.84262768	8.63115858	6.780968939	6.113088927	5.726304275	5.429809126	5.206373985	5.038568375	4.943709976	4.907372454	4.907373754	4.893815014	
2011	T6TS - GAS		Nox	3.776139381	3.68419735	3.031381531	2.796116748	2.618595166	2.501428786	2.422785168	2.377286021	2.345097438	2.379807213	2.429882415	2.483510023	2.532984731	
2011	T7 Ag - DSL		Nox	49.25384292	40.2910814	28.2396624	22.13722061	20.47819624	19.54118366	18.84035637	18.38178742	18.1956293	18.18687379	18.39242442	18.58841171	18.92191676	
2011	T7 CAIRP - DSL		Nox	37.32702062	30.97280779	22.03688428	17.12466935	15.53767882	14.6259841	13.94221409	13.42816664	13.11474107	12.92846399	12.8935276	12.95962173	12.95962173	
2011	T7 CAIRP construction - DSL		Nox	33.88274075	28.61209516	20.9517662	16.38753453	14.57348559	13.82205228	12.60518105	11.93438244	11.4815692	11.18187847	11.05683435	11.08722729	11.08931934	
2011	T7 NNOOS - DSL		Nox	29.34934229	24.69835605	18.10138806	14.1923742	12.6140238	11.6782578	10.94214294	10.38303677	10.00379813	9.743456873	9.61801025	9.62867803	9.603584658	
2011	T7 NNOOS - DSL		Nox	37.32702062	30.97280779	22.03688428	17.12466935	15.53767882	14.6259841	13.94221409	13.42816664	13.11474107	12.92846399	12.8935276	12.95962173	12.95962173	
2011	T7 other port - DSL		Nox	48.18948951	39.32818073	26.89021912	20.58568831	19.13001781	18.40443412	17.85738833	17.49548309	17.34785112	17.32354426	17.457327	17.62004772	17.62337245	
2011	T7 POAK - DSL		Nox	50.21658666	40.73979965	27.59509155	21.05731164	19.66344622	18.99686287	18.50541898	18.19631776	18.10026124	18.12266118	18.2998766	18.47921088	18.48269772	
2011	T7 Public - DSL		Nox	29.08501104	24.24472884	18.11445259	14.58406079	13.31362526	12.5658338	11.98742382	11.56737772	11.31564376	11.16721498	11.1417574	11.19912426	11.20123743	
2011	T7 Single - DSL		Nox	36.22452259	30.02526112	21.39979867	16.76856493	15.33158147	14.51803202	13.88825621	13.4384955	13.18570186	13.05761635	13.07935072	13.17021803	13.17270492	
2011	T7 single construction - DSL		Nox	38.80651897	31.49342207	21.68324327	16.6466452	15.27978438	14.54215342	13.98825639	13.61244709	13.43151602	13.3721042	13.46016761	13.56601803	13.56857781	
2011	T7 SWCV - DSL		Nox	35.41965795	29.35527744	20.79852524	16.21734115	14.89050147	14.13052697	13.54526429	13.12600485	12.86798447	12.76863097				
2011	T7 tractor - DSL		Nox	42.28020333	34.27502598	23.55406403	18.12136996	16.71803247	15.97971662	15.4346954	15.07478123	14.91767476	14.88128388	14.99378818	15.11601021	15.11886245	
2011	T7 tractor construction - DSL		Nox	40.79694394	33.51572998	23.49213742	18.15490954	16.53928818	15.6302955	14.92890837	14.43073696	14.15436719	14.02273791	14.0634587	14.16494741	14.1676202	
2011	T7 utility - DSL		Nox	29.60451741	24.3358556	17.20264599	13.39937237	12.24883537	11.6180265	11.13564984	10.79003897	10.59140592	10.4793455	10.47629217	10.52254678	10.52453228	
2011	UBUS - GAS		Nox	8.229338577	7.482655171	6.959247455	6.642624519	6.353898536	6.172050942	6.068035826	6.0492846	6.127146614	6.204016787	6.291533716	6.520762092	6.788142987	
2011	UBUS - DSL		Nox	33.26911686	27.80797203	19.75721323	15.40555568	14.41789904	13.81689399	13.37438398	13.0736936	12.89768206	12.89399464	13.02504039	13.28045659	13.65153879	
2011	UBUS - GAS		Nox	2.723733471	2.539248382	2.406019342	2.320027011	2.223944134	2.205118293	2.210593395	2.228335839	2.246128756	2.331000327	2.411299059	2.4		

NOx Emissions All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00052	0.00312	0.01269	0.13385	0.07448	0.07897	0.12802	0.08682	0.14237	0.13304	0.26743	0.33965	0.05805	0.00000	1.46
0.00029	0.00214	0.01258	0.17428	0.10824	0.12451	0.21699	0.15668	0.27090	0.26411	0.54815	0.71812	0.12748	0.03173	2.76
0.02052	0.12839	0.66107	8.04906	4.43764	4.62949	7.43292	5.02368	8.17296	7.73662	15.84901	20.69262	3.70968	0.93518	87.48
0.00002	0.00016	0.00094	0.01324	0.00827	0.00954	0.01666	0.01205	0.02085	0.02035	0.04226	0.05539	0.00983	0.00245	0.21
0.00598	0.03656	0.18512	2.22513	1.21651	1.26438	2.02970	1.37597	2.25089	2.15174	4.47073	5.93850	1.08727	0.27757	24.52
0.00000	0.00001	0.00006	0.00090	0.00056	0.00065	0.00113	0.00082	0.00142	0.00138	0.00287	0.00377	0.00067	0.00017	0.01
0.01412	0.08667	0.43823	5.24275	2.84361	2.92399	4.63694	3.10331	5.01224	4.72949	9.69545	12.71692	2.30030	0.58354	54.33
0.01640	0.12323	0.73898	10.37581	6.50684	7.49909	13.14539	9.53310	16.49507	16.05459	33.44887	0.00000	0.00000	0.00000	113.94
0.00289	0.01838	0.09520	1.18230	0.66960	0.70097	1.15196	0.79869	1.29450	1.17562	2.49760	0.00000	0.00000	0.00000	9.59
0.00279	0.02091	0.12473	1.74538	1.09281	1.25836	2.20454	1.59808	2.76429	2.68982	5.60300	0.00000	0.00000	0.00000	19.10
0.00027	0.00170	0.00883	0.11004	0.06250	0.06562	0.10808	0.07508	0.12194	0.11097	0.23578	0.00000	0.00000	0.00000	0.90
0.00136	0.00928	0.05190	0.68076	0.40122	0.44396	0.74926	0.52700	0.88404	0.85316	1.76829	2.30756	0.40799	0.10169	9.19
0.00003	0.00019	0.00102	0.01349	0.00818	0.00928	0.01603	0.01150	0.01978	0.01921	0.03974	0.05197	0.00922	0.00229	0.20
0.01706	0.10426	0.52528	6.26697	3.39218	3.48318	5.51963	3.69382	5.96964	5.64061	11.58765	15.24440	2.76852	0.70399	64.92
0.00081	0.00481	0.01932	0.19926	0.10894	0.11415	0.18327	0.12334	0.20111	0.18729	0.37602	0.48242	0.08469	0.00000	2.09
0.00027	0.00179	0.00960	0.12329	0.07133	0.07755	0.12903	0.08982	0.15015	0.14499	0.29861	0.38706	0.06758	0.00000	1.55
0.00044	0.00260	0.01035	0.10707	0.05879	0.06179	0.09946	0.06718	0.10954	0.10236	0.20581	0.26076	0.04449	0.00000	1.13
0.00027	0.00167	0.00844	0.10224	0.05588	0.05756	0.09120	0.06084	0.09827	0.09219	0.18625	0.23926	0.04186	0.00000	1.04
0.00000	0.00000	0.00000	1.19761	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.20
0.00162	0.00962	0.03877	0.40761	0.22748	0.24162	0.39231	0.26650	0.43863	0.41024	0.82857	1.05295	0.00000	0.00000	4.32
0.00013	0.00083	0.00432	0.05365	0.03014	0.03175	0.05159	0.03518	0.05820	0.05449	0.11351	0.14632	0.00000	0.00000	0.58
0.00379	0.02265	0.09208	0.97505	0.54309	0.57514	0.93149	0.63175	1.03739	0.97230	1.96360	2.50095	0.42744	0.00000	10.68
0.00032	0.00188	0.00762	0.07954	0.04363	0.04576	0.07345	0.04939	0.08044	0.07481	0.15001	0.19041	0.03254	0.00000	0.83
0.00083	0.00499	0.02067	0.21660	0.11660	0.12029	0.19010	0.12601	0.20266	0.18652	0.37105	0.46968	0.08027	0.00000	2.11
0.00106	0.00627	0.02510	0.26166	0.14516	0.15367	0.24883	0.16864	0.27653	0.25857	0.52046	0.66154	0.11306	0.00000	2.84
0.00559	0.03359	0.13806	1.44544	0.78451	0.81533	1.29771	0.86588	1.40049	1.29470	2.58340	3.27293	0.55938	0.00000	14.50
0.01857	0.11106	0.45128	4.73326	2.60744	2.74182	4.41172	2.97349	4.85346	4.52276	9.08440	11.54166	1.97259	0.00000	50.02
0.04181	0.25274	1.04914	11.01463	5.94158	6.13909	9.71537	6.44837	10.38272	9.56519	19.04339	24.11453	4.12142	0.00000	107.83
0.00018	0.00108	0.00437	0.04557	0.02500	0.02622	0.04208	0.02830	0.04609	0.04286	0.08595	0.10910	0.01865	0.00000	0.48
0.00047	0.00286	0.01184	0.12410	0.06681	0.06892	0.10892	0.07220	0.11612	0.10687	0.21260	0.26911	0.04599	0.00000	1.21
0.00150	0.00900	0.03720	0.39699	0.21994	0.23194	0.37417	0.25278	0.41340	0.38582	0.77575	0.98601	0.16852	0.00000	4.25
0.00026	0.00156	0.00654	0.06909	0.03723	0.03850	0.06104	0.04057	0.06534	0.06008	0.11908	0.15034	0.02569	0.00000	0.68
0.00127	0.00816	0.04216	0.52282	0.29268	0.30862	0.49981	0.33999	0.55808	0.53074	1.08213	1.39629	0.24407	0.00000	5.83
0.00196	0.01148	0.04619	0.48686	0.26922	0.28358	0.45715	0.30921	0.50931	0.47707	0.96345	1.22923	0.21071	0.00000	5.26
0.03331	0.19839	0.81001	8.46280	4.58996	4.77472	7.60183	5.07573	8.24879	7.62045	15.17615	19.25732	3.30101	0.00000	85.15
0.00104	0.00630	0.02645	0.27818	0.14788	0.15101	0.23608	0.15495	0.24806	0.22640	0.44704	0.56591	0.09701	0.00000	2.59
0.03247	0.19616	0.82504	8.69698	4.62060	4.72217	7.39794	4.86663	7.80221	7.12146	14.03771	17.74174	3.04122	0.00000	81.10
0.01316	0.07836	0.31996	3.34280	1.81303	1.88601	3.00272	2.00491	3.25827	3.01008	5.99457	7.60663	1.30390	0.00000	33.63
0.00038	0.00225	0.00882	0.09078	0.05043	0.05355	0.08688	0.05901	0.09737	0.09112	0.18336	0.23364	0.04005	0.00000	1.00
0.00104	0.00604	0.02349	0.24102	0.13454	0.14347	0.23369	0.15930	0.26368	0.24741	0.49888	0.63598	0.10902	0.00000	2.70
0.00379	0.02288	0.09719	1.05199	0.57406	0.59809	0.95401	0.63820	1.03885	0.96077	1.91419	2.42901	0.41637	0.00000	10.70
0.02356	0.14015	0.57324	6.03911	3.30062	3.45004	5.51849	3.70184	6.04393	5.60897	11.21918	14.26206	2.44475	0.00000	62.33
0.00308	0.01792	0.07082	0.73100	0.40109	0.42136	0.67772	0.45721	0.75068	0.70038	1.40779	1.79124	0.30705	0.00000	7.74
0.00618	0.03676	0.14947	1.56691	0.86001	0.90087	1.44394	0.97004	1.58239	1.47147	0.00000	0.00000	0.00000	0.00000	8.99
0.02514	0.14627	0.57684	5.96663	3.29044	3.47173	5.60701	3.79646	6.25141	5.84414	11.75837	14.96537	2.56530	0.00000	64.27
0.00241	0.01422	0.05721	0.59440	0.32369	0.33767	0.53927	0.36138	0.58981	0.54759	1.09665	1.39446	0.23903	0.00000	6.10
0.00012	0.00068	0.00275	0.02885	0.01576	0.01650	0.02645	0.01777	0.02902	0.02691	0.05370	0.06812	0.01168	0.00000	0.30
0.00037	0.00241	0.01284	0.16479	0.09422	0.10103	0.16608	0.11478	0.19346	0.18357	0.37174	0.48640	0.08678	0.00000	1.98
0.00926	0.05558	0.22662	2.39660	1.32911	1.40598	2.27561	1.54212	2.53151	2.37170	4.78416	6.15821	1.08491	0.00000	26.17
0.00022	0.00150	0.00814	0.10556	0.06049	0.06620	0.11097	0.07755	0.13007	0.12650	0.26130	0.34012	0.05956	0.00000	1.35

0.34

**1.35 NOx
1,003.07 2011 Tons/Year**

Emissions (Tons)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00023	0.00127	0.00596	0.05462	0.02662	0.02677	0.04045	0.02561	0.04053	0.03619	0.07030	0.08608	0.01446	0.00000	0.43
0.00000	0.00123	0.00689	0.07524	0.04311	0.04921	0.08290	0.05768	0.09919	0.09523	0.19715	0.25343	0.04408	0.01128	1.02
0.00000	0.00507	0.28656	3.08427	1.66075	1.74996	2.76596	1.82268	2.93833	2.73174	5.54942	7.18120	1.25771	0.32481	31.40
0.00000	0.00005	0.00032	0.00401	0.00246	0.00292	0.00505	0.00359	0.00626	0.00609	0.01273	0.01645	0.00287	0.00074	0.06
0.00000	0.00982	0.05532	0.58858	0.31482	0.33072	0.52392	0.34713	0.56346	0.53040	1.09484	1.44789	0.25985	0.06808	6.13
0.00000	0.00005	0.00023	0.00200	0.00097	0.00099	0.00153	0.00099	0.00160	0.00146	0.00289	0.00361	0.00062	0.00016	0.02

0.00000	0.03170	0.18061	1.93623	1.03918	1.09207	1.72305	1.13420	1.82755	1.70025	3.46004	4.49148	0.78998	0.20457	19.61
0.00801	0.05651	0.37561	4.69221	2.89526	3.43971	5.97851	4.25672	7.43646	7.21798	15.15857	0.00000	0.00000	0.00000	51.52
0.00106	0.00636	0.03687	0.40903	0.22756	0.24468	0.39706	0.26922	0.43911	0.39672	0.84792	0.00000	0.00000	0.00000	3.28
0.00128	0.00881	0.05648	0.68806	0.41944	0.49500	0.85648	0.60784	1.05928	1.02619	2.15180	0.00000	0.00000	0.00000	7.37
0.00010	0.00060	0.00347	0.03823	0.02112	0.02255	0.03635	0.02450	0.03977	0.03582	0.07628	0.00000	0.00000	0.00000	0.30
0.00000	0.00857	0.05201	0.59321	0.33730	0.37334	0.61768	0.42256	0.70195	0.66747	1.37366	1.78561	0.30983	0.07938	7.32
0.00000	0.00033	0.00156	0.01419	0.00719	0.00755	0.01193	0.00788	0.01299	0.01204	0.02420	0.03056	0.00527	0.00134	0.14
0.00000	0.03880	0.22093	2.37137	1.27616	1.34615	2.13423	1.41236	2.28822	2.14163	4.38513	5.73015	1.01461	0.26369	24.62
0.00050	0.00286	0.01285	0.11590	0.06063	0.06429	0.10088	0.06588	0.10738	0.09884	0.19846	0.24955	0.04296	0.00000	1.12
0.00010	0.00062	0.00366	0.04148	0.02334	0.02584	0.04215	0.02853	0.04778	0.04572	0.09452	0.12041	0.02067	0.00000	0.49
0.00028	0.00157	0.00715	0.06312	0.02941	0.02876	0.04262	0.02663	0.04157	0.03683	0.07095	0.08643	0.01449	0.00000	0.45
0.00009	0.00054	0.00309	0.03350	0.01805	0.01915	0.03005	0.01965	0.03200	0.02990	0.06084	0.07693	0.01323	0.00000	0.34
0.00000	0.00000	0.00000	0.74654	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.75
0.00131	0.00728	0.03219	0.29242	0.15537	0.16746	0.26724	0.17718	0.29302	0.27203	0.55109	0.68767	0.00000	0.00000	2.90
0.00006	0.00035	0.00201	0.02180	0.01176	0.01243	0.01952	0.01276	0.02089	0.01920	0.03974	0.05012	0.00000	0.00000	0.21
0.00211	0.01183	0.05371	0.49388	0.25328	0.26403	0.41058	0.26688	0.43412	0.39950	0.80278	1.00111	0.16815	0.00000	4.56
0.00017	0.00090	0.00388	0.03157	0.01316	0.01177	0.01627	0.00961	0.01439	0.01227	0.02294	0.02761	0.00464	0.00000	0.17
0.00050	0.00270	0.01128	0.08749	0.03496	0.03056	0.04158	0.02428	0.03613	0.03081	0.05804	0.07038	0.01182	0.00000	0.44
0.00085	0.00473	0.02126	0.18671	0.08883	0.08853	0.13306	0.08445	0.13406	0.12036	0.23568	0.28995	0.04870	0.00000	1.44
0.00489	0.02672	0.11658	0.96381	0.41878	0.38913	0.55381	0.33456	0.51099	0.44504	0.85252	1.04115	0.17487	0.00000	5.83
0.01806	0.09865	0.43528	3.66429	1.59336	1.47112	2.08522	1.25561	1.90840	1.64729	3.10799	3.75624	0.63090	0.00000	21.67
0.04851	0.26140	1.10566	8.72915	3.56468	3.15974	4.33954	2.54991	3.80960	3.25980	6.15724	7.47608	1.25568	0.00000	45.72
0.00010	0.00053	0.00227	0.01858	0.00782	0.00704	0.00978	0.00580	0.00871	0.00746	0.01399	0.01687	0.00283	0.00000	0.10
0.00029	0.00155	0.00646	0.05013	0.02003	0.01751	0.02382	0.01391	0.02070	0.01765	0.03326	0.04033	0.00677	0.00000	0.25
0.00069	0.00390	0.01803	0.16981	0.09072	0.09749	0.15468	0.10190	0.16719	0.15459	0.31118	0.38808	0.06518	0.00000	1.72
0.00011	0.00058	0.00237	0.01788	0.00661	0.00526	0.00652	0.00348	0.00474	0.00370	0.00634	0.00732	0.00123	0.00000	0.07
0.00034	0.00205	0.01176	0.12894	0.07020	0.07529	0.11932	0.07874	0.12921	0.12152	0.24835	0.31469	0.05409	0.00000	1.35
0.00119	0.00666	0.03032	0.28165	0.14576	0.15266	0.23774	0.15470	0.25306	0.23316	0.46916	0.58661	0.09882	0.00000	2.65
0.02501	0.13635	0.60430	5.11673	2.20688	2.01339	2.81731	1.67608	2.52876	2.15625	4.01587	4.83777	1.81495	0.00000	28.95
0.00113	0.00616	0.02699	0.22490	0.09756	0.09075	0.12960	0.07866	0.12100	0.10518	0.19979	0.24313	0.04096	0.00000	1.37
0.02518	0.13261	0.54136	4.03779	1.48950	1.20781	1.54046	0.85078	1.28020	0.98024	1.75240	2.07421	0.34941	0.00000	16.19
0.00996	0.05432	0.24097	2.04404	0.88408	0.80795	1.13174	0.67380	1.01731	0.86822	1.61903	1.95194	0.32882	0.00000	11.63
0.00029	0.00161	0.00743	0.06619	0.03068	0.02984	0.04402	0.02735	0.04278	0.03757	0.07163	0.08713	0.01468	0.00000	0.46
0.00060	0.00338	0.01587	0.14476	0.06891	0.06826	0.10199	0.06398	0.10077	0.08898	0.17041	0.20767	0.03498	0.00000	1.07
0.00311	0.01760	0.08242	0.77542	0.40251	0.42434	0.66339	0.43198	0.70466	0.64518	1.28585	1.60025	0.26957	0.00000	7.31
0.01829	0.09999	0.44198	3.76455	1.70679	1.64766	2.42453	1.50860	2.37124	2.10150	4.06358	4.98610	0.83994	0.00000	25.97
0.00230	0.01264	0.05624	0.48805	0.22840	0.22526	0.33664	0.21202	0.33671	0.30121	0.58761	0.72376	0.12192	0.00000	3.63
0.00334	0.01893	0.08713	0.81795	0.43662	0.46703	0.73657	0.48262	0.79022	0.72892	0.00000	0.00000	0.00000	0.00000	4.57
0.01635	0.09046	0.41382	3.66723	1.69235	1.63432	2.39449	1.47980	2.30559	2.02105	3.85589	4.69564	0.79101	0.00000	25.06
0.00224	0.01238	0.05591	0.48944	0.22743	0.22227	0.32904	0.20527	0.32289	0.28609	0.55280	0.67799	0.11421	0.00000	3.50
0.00004	0.00019	0.00079	0.00620	0.00237	0.00193	0.00243	0.00132	0.00182	0.00143	0.00247	0.00286	0.00048	0.00000	0.02
0.00019	0.00115	0.00659	0.07263	0.03929	0.04178	0.06570	0.04318	0.07150	0.06629	0.13357	0.17074	0.02991	0.00000	0.74
0.00444	0.02529	0.11580	1.09374	0.59616	0.64949	1.04141	0.69230	1.14646	1.07022	2.17431	2.75409	0.47658	0.00000	11.84
0.00015	0.00091	0.00555	0.06411	0.03604	0.04048	0.06699	0.04579	0.07730	0.07479	0.15549	0.19914	0.03428	0.00000	0.80 NOx

388.58 2020 Tons/Year

Emissions (Tons)

2035

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00081	0.00482	0.01066	0.04449	0.01403	0.01345	0.01637	0.00940	0.00808	0.00715	0.00892	0.00912	0.00104	0.00000	0.15
0.00000	0.00142	0.00357	0.01795	0.00805	0.01048	0.01659	0.01200	0.01268	0.01350	0.01993	0.02227	0.00258	0.00087	0.14
0.00000	0.09283	0.30039	1.94458	0.99555	1.37587	2.28906	1.72218	1.84702	2.03719	3.12711	3.63367	0.42887	0.14733	19.94
0.00000	0.00002	0.00005	0.00031	0.00016	0.00023	0.00039	0.00030	0.00034	0.00039	0.00060	0.00069	0.00008	0.00003	0.00
0.00000	0.00873	0.02817	0.18193	0.09299	0.12838	0.21358	0.16078	0.17257	0.19071	0.29354	0.34246	0.04061	0.01399	1.87
0.00000	0.00031	0.00075	0.00360	0.00154	0.00191	0.00290	0.00201	0.00204	0.00209	0.00297	0.00323	0.00037	0.00012	0.02
0.00000	0.05539	0.17912	1.15888	0.59309	0.81942	1.36344	1.02597	1.10031	1.21416	1.86486	2.16923	0.25627	0.08809	11.89
0.00538	0.04204	0.14879	1.07192	0.61665	0.95153	1.73234	1.40516	1.63171	1.88129	2.99273	0.00000	0.00000	0.00000	12.48
0.00060	0.00410	0.01316	0.08615	0.04474	0.06204	0.10440	0.07979	0.08575	0.09144	0.14714	0.00000	0.00000	0.00000	0.72
0.00075	0.00523	0.01492	0.08816	0.04511	0.06474	0.11180	0.08710	0.09798	0.11011	0.17150	0.00000	0.00000	0.00000	0.80
0.00006	0.00043	0.00139	0.00910	0.00473	0.00655	0.01103	0.00843	0.00906	0.00966	0.01554	0.00000	0.00000	0.00000	0.08
0.00000	0.04025	0.13506	0.90855	0.48271	0.69047	1.18783	0.91914	1.00974	1.13538	1.76547	2.06713	0.24336	0.08334	10.67
0.00000	0.00070	0.00171	0.00823	0.00354	0.00445	0.00680	0.00476	0.00487	0.00502	0.00719	0.00788	0.00090	0.00030	0.06
0.00000	0.04277	0.13735	0.88397	0.45081	0.62158	1.03389	0.77879	0.83710	0.92751	1.43293	1.68031	0.20054	0.06936	9.10
0.00091	0.00593	0.01459	0.07194	0.03204	0.04131	0.06446	0.04587	0.04771	0.05014	0.07329	0.08110	0.00933	0.00000	0.54

0.00008	0.00053	0.00168	0.01098	0.00562	0.00783	0.01297	0.00971	0.01055	0.01174	0.01814	0.02072	0.00242	0.00000	0.11
0.00123	0.00732	0.01592	0.06439	0.01938	0.01782	0.02082	0.01151	0.00952	0.00813	0.00979	0.00982	0.00112	0.00000	0.20
0.00010	0.00071	0.00226	0.01474	0.00755	0.01052	0.01741	0.01304	0.01417	0.01577	0.02436	0.02783	0.00325	0.00000	0.15
0.00000	0.00000	0.00000	1.21161	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.21
0.00244	0.01476	0.03356	0.14682	0.05101	0.05473	0.07487	0.04834	0.04678	0.04636	0.06488	0.07012	0.00000	0.00000	0.65
0.00003	0.00020	0.00065	0.00424	0.00218	0.00302	0.00501	0.00375	0.00410	0.00449	0.00706	0.00804	0.00000	0.00000	0.04
0.00526	0.03179	0.07209	0.31478	0.10549	0.10631	0.13521	0.08073	0.07190	0.06565	0.08420	0.08722	0.00994	0.00000	1.17
0.00080	0.00478	0.01040	0.04209	0.01269	0.01167	0.01365	0.00755	0.00626	0.00534	0.00644	0.00648	0.00074	0.00000	0.13
0.00228	0.01355	0.02947	0.11893	0.03569	0.03270	0.03809	0.02097	0.01731	0.01472	0.01767	0.01773	0.00202	0.00000	0.36
0.00545	0.03254	0.07162	0.29607	0.09211	0.08727	0.10506	0.05972	0.05090	0.04466	0.05526	0.05630	0.00642	0.00000	0.96
0.03210	0.19115	0.41731	1.69799	0.51604	0.47857	0.56439	0.31452	0.26296	0.22654	0.27543	0.27822	0.03170	0.00000	5.29
0.12881	0.76773	1.68064	6.87457	2.10540	1.96598	2.33382	1.30868	1.10054	0.95328	1.16476	1.17926	0.13436	0.00000	21.70
0.30311	1.80408	3.93376	15.96713	4.83362	4.46504	5.24439	2.91023	2.42246	2.07740	2.51348	2.53252	0.28855	0.00000	49.30
0.00046	0.00274	0.00596	0.02414	0.00728	0.00670	0.00784	0.00434	0.00360	0.00307	0.00371	0.00373	0.00042	0.00000	0.07
0.00131	0.00776	0.01688	0.06814	0.02045	0.01874	0.02183	0.01201	0.00992	0.00844	0.01012	0.01016	0.00116	0.00000	0.21
0.00070	0.00437	0.01047	0.05124	0.02164	0.02733	0.04263	0.03064	0.03234	0.03461	0.05160	0.05749	0.00655	0.00000	0.37
0.00052	0.00308	0.00669	0.02707	0.00815	0.00749	0.00875	0.00483	0.00400	0.00341	0.00411	0.00413	0.00047	0.00000	0.08
0.00021	0.00141	0.00452	0.02948	0.01510	0.02103	0.03481	0.02607	0.02832	0.03153	0.04870	0.05564	0.00649	0.00000	0.30
0.00289	0.01764	0.04133	0.19059	0.06787	0.07162	0.09447	0.05813	0.05330	0.04963	0.06462	0.06759	0.00772	0.00000	0.79
0.10998	0.65264	1.42468	5.78986	1.74614	1.60975	1.88574	1.04403	0.87053	0.74369	0.89521	0.90244	0.10313	0.00000	17.78
0.00747	0.04430	0.09657	0.39128	0.11749	0.10788	0.12588	0.06943	0.05768	0.04910	0.05891	0.05930	0.00678	0.00000	1.19
0.11382	0.67473	1.46868	5.93488	1.77436	1.62224	1.88458	1.03468	0.85553	0.72475	0.86511	0.86845	0.09924	0.00000	17.92
0.04346	0.25790	0.56306	2.28895	0.69063	0.63696	0.74648	0.41346	0.34490	0.29477	0.35497	0.35791	0.04090	0.00000	7.03
0.00162	0.00962	0.02093	0.08458	0.02529	0.02312	0.02686	0.01475	0.01219	0.01033	0.01233	0.01238	0.00141	0.00000	0.26
0.00476	0.02822	0.06143	0.24824	0.07422	0.06786	0.07883	0.04328	0.03578	0.03031	0.03619	0.03633	0.00415	0.00000	0.75
0.00792	0.04902	0.11832	0.58258	0.24439	0.30690	0.47618	0.34057	0.35930	0.38194	0.56457	0.62762	0.07172	0.00000	4.13
0.11343	0.67480	1.48326	6.10973	1.88019	1.76605	2.10708	1.18765	1.00775	0.87572	1.07181	1.08932	0.12448	0.00000	19.49
0.01420	0.08462	0.18702	0.77858	0.24360	0.23247	0.28180	0.16138	0.13914	0.12289	0.15295	0.15679	0.01792	0.00000	2.57
0.00405	0.02600	0.06654	0.36299	0.17239	0.23044	0.37014	0.27027	0.28875	0.31124	0.00000	0.00000	0.00000	0.00000	2.10
0.07728	0.45963	1.00982	4.15565	1.27707	1.19802	1.42762	0.80373	0.68122	0.59133	0.72299	0.73443	0.08393	0.00000	13.22
0.01490	0.08863	0.19457	0.79955	0.24525	0.22972	0.27340	0.15376	0.13022	0.11298	0.13810	0.14029	0.01603	0.00000	2.54
0.00018	0.00106	0.00232	0.00952	0.00291	0.00272	0.00322	0.00180	0.00152	0.00132	0.00160	0.00162	0.00019	0.00000	0.03
0.00077	0.00520	0.01672	0.10974	0.05601	0.07755	0.12770	0.09543	0.10479	0.11521	0.17572	0.20256	0.02407	0.00000	1.11
0.00307	0.01980	0.04861	0.25893	0.13066	0.18520	0.31226	0.23735	0.26178	0.29008	0.44471	0.50591	0.05899	0.00000	2.76
0.00023	0.00157	0.00504	0.03289	0.01661	0.02314	0.03836	0.02871	0.03119	0.03483	0.05386	0.06170	0.00722	0.00000	0.34 NOx

244.77 2035 Tons/Year

Mobile Emissions Calculations - CO

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

CO Emissions All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														ALL SPEEDS
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	97.69	16.74	4.10	413
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	81.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,493
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,422	
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,363
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,459
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	
Year	Vehicle Type	EMFAC2011 Vehicle Type		5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.48%	185.03	1262.24	8159.01	98660.05	58323.61	66549.64	110538.57	75396.98	126695.73	118496.99	238667.19	296763.34	49982.34	12588.39	1,262,209
2020	LDT1 - DSL		0.01%	0.03	0.18	1.17	14.17	8.38	9.56	15.88	10.82	18.20	17.02	34.28	42.62	7.18	1.81	181
2020	LDT1 - GAS		4.25%	16.57	113.02	730.56	8834.04	5222.31	5958.86	9897.64	6745.68	11344.35	10610.24	21370.30	26572.23	4475.43	1127.17	113,018
2020	LDT2 - DSL		0.04%	0.14	0.97	6.24	75.45	44.60	50.89	84.53	57.61	96.89	90.62	182.52	226.95	38.22	9.63	965
2020	LDT2 - GAS		20.91%	81.50	555.94	3593.57	43453.99	25688.15	29311.23	48685.79	33181.54	55802.08	52191.01	105118.97	130706.93	22014.31	5544.45	555,929
2020	LHD1 - DSL		1.58%	6.17	42.11	272.17	3291.07	1945.54	2219.94	3687.31	2513.07	4226.28	3952.7					

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6TS - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.44	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	268827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check		194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86	

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	10.79	16.51	18.55	2.12	0.71	97	
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	89099.41	100808.50	112360.01	171867.32	193190.80	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	1,830
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,946
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9968.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055
2035																		

VMT check | 712.68 | 6123.505 | 22675.305 | 154298.405 | 81264.315 | 125706.57 | 217971.84 | 185601.78 | 212234.53 | 242968.585 | 374146.69 | 422137.835 | 48270.03 | 16232.93

Emissions Summary - BAU

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2011	All Other Buses - DSL	CO	CO	7.445318808	6.428210347	4.762192752	3.535215582	2.871577387	2.411538534	2.030762773	1.72657482	1.497099007	1.341072648	1.257708499	1.242189374	1.242189374	1.242189374
2011	LDA - DSL	CO	CO	3.321365803	2.4067167	1.558221925	1.045946114	0.827102738	0.70999889	0.643181875	0.617274473	0.653901763	0.730193155	0.861722478	1.033257559	1.214436693	1.214436693
2011	LDA - GAS	CO	CO	4.854076371	4.022293276	3.403335119	2.99101809	2.680887496	2.426480892	2.230545032	2.086445083	1.988649574	1.932316092	1.8785316	1.902370954	2.01399773	2.104448379
2011	LD1 - DSL	CO	CO	3.654922565	2.61000921	1.880744566	1.42786322	1.17248898	1.020568854	0.93595851	0.904086443	0.919754012	0.985515096	1.112301858	1.32016680	1.65794677	1.892379917
2011	LD1 - GAS	CO	CO	10.03469266	8.146021801	6.783316701	5.868634256	5.196850979	4.67229965	4.282551361	4.008811556	3.833010408	3.742640808	3.712990374	3.826792082	4.129643725	4.361774819
2011	LD2 - DSL	CO	CO	5.509744745	4.091084935	2.90199192	2.263871114	1.873043376	1.634750445	1.502742849	1.454821779	1.483265	1.592639655	1.801000939	2.145192763	2.691160677	3.073308902
2011	LD2 - GAS	CO	CO	4.78691098	4.090589371	3.532244213	3.151814338	2.851739336	2.590281623	2.379532422	2.214785721	2.094620358	1.992742966	1.900329843	1.864088522	1.891995864	1.925954506
2011	LHD1 - DSL	CO	CO	2.826017751	2.020145528	1.445260536	1.089115631	0.892442317	0.776218813	0.711394613	0.686734027	0.698202064	0.747677334	0.843401689			
2011	LHD1 - GAS	CO	CO	6.147467947	4.783947245	3.902413839	3.291874161	2.860031837	2.566306697	2.350313868	2.211949667	2.160886662	2.194090793	2.254579263			
2011	LHD2 - DSL	CO	CO	2.67016432	1.916061432	1.333893044	0.976252355	0.793200665	0.687783513	0.628647812	0.605287698	0.61383636	0.655728841	0.738005834			
2011	LHD2 - GAS	CO	CO	5.550777475	4.275932008	3.457506185	2.897484906	2.5067706	2.244009075	2.055861455	1.939821068	1.902471466	1.924243022	2.015398722			
2011	MCY - GAS	CO	CO	76.8275723	56.1883834	43.62410531	35.13439325	29.58354321	26.21358434	24.1863959	23.25561898	22.95325934	24.26264955	26.84018916	30.98540084	37.62825953	42.40073743
2011	MDV - DSL	CO	CO	3.341897724	2.457990794	1.410551582	0.9009672	0.583688141	0.487703988	0.430973953	0.401250196	0.393248744	0.405985679	0.442167573	0.512003247	0.628206399	0.705942365
2011	MDV - GAS	CO	CO	5.655613426	4.830584855	4.170583023	3.723084545	3.370538704	3.062871429	2.814908196	2.621247123	2.480572914	2.361260126	2.253087278	2.212847873	2.250951476	2.294730049
2011	MH - DSL	CO	CO	2.51463928	2.129209218	1.502866224	1.069254885	0.869622408	0.740134993	0.633564307	0.549090802	0.48603571	0.444407889	0.423993023	0.425066353	0.447477721	
2011	MH - GAS	CO	CO	39.29904262	28.55480187	21.78207885	17.50307146	14.71150818	12.9758063	11.96559019	11.54127263	11.58305499	13.62226315	15.82587773	19.23891099		
2011	Motor Coach - DSL	CO	CO	14.08438041	11.91319188	8.428492566	5.977096264	4.809603994	4.064162402	3.457772733	2.984845871	2.642565884	2.430482994	2.350213629	2.347690758	2.347690758	
2011	OBUS - GAS	CO	CO	12.72518356	10.80531128	9.419054091	8.363166763	7.536846749	6.866950389	6.333371051	5.911156014	5.583890296	5.343470005	5.219385478	5.219642817	5.381918607	
2011	PTO - DSL	CO	CO				5.681414407										
2011	SBUS - DSL	CO	CO	6.649805338	5.813488504	4.41429931	3.355446694	2.750978618	2.317712291	1.95504565	1.661749604	1.43705115	1.280546251	1.192135633	1.172129853		
2011	SBUS - GAS	CO	CO	77.6997422	57.91619108	45.60302284	37.5115126	32.15783592	28.60277077	26.44960194	25.3050322	25.08670661	25.69167664	28.46131665	31.9839202		
2011	T6 Ag - DSL	CO	CO	9.6996309	8.572133946	6.650525797	5.166541294	4.276800713	3.618033604	3.062145998	2.60804431	2.25614991	2.004955868	1.856376492	1.818994996	1.818994996	
2011	T6 CAIRP heavy - DSL	CO	CO	6.397351202	5.39142353	3.781004111	2.671384893	2.165688342	1.845838044	1.58549153	1.382887497	1.236851437	1.146671818	1.11200852	1.114258774	1.114258774	
2011	T6 CAIRP small - DSL	CO	CO	5.131893604	4.21395046	2.793746595	1.883706792	1.534122298	1.335491572	1.179363686	1.063465804	0.986203005	0.94649975	0.943683046	0.955197275	0.955197275	
2011	T6 instate construction heavy - DSL	CO	CO	7.387373191	6.320769896	4.576125326	3.18694362	2.688029942	2.268368354	1.92221967	1.648013558	1.447361054	1.311819144	1.249058036	1.242594437	1.242594437	
2011	T6 instate construction small - DSL	CO	CO	5.4980833	4.564959396	3.104527482	2.139113857	1.735410608	1.492978319	1.299381067	1.152246409	1.049921989	0.991309859	0.975744388	0.983046468	0.983046468	
2011	T6 instate heavy - DSL	CO	CO	7.215336188	6.179949536	4.494815681	3.293425143	2.691004282	2.285484773	1.950468632	1.68439649	1.486216653	1.352575675	1.291237714	1.283314417	1.283314417	
2011	T6 instate small - DSL	CO	CO	5.335771402	4.41348632	2.978830221	2.047275157	1.671983108	1.450090443	1.273677891	1.140499856	1.048691191	0.997965851	0.986791664	0.99539777	0.99539777	
2011	T6 OOS heavy - DSL	CO	CO	6.397351202	5.39142353	3.781004111	2.671384893	2.165688342	1.845838044	1.58549153	1.382887497	1.236851437	1.146671818	1.11200852	1.114258774	1.114258774	
2011	T6 OOS small - DSL	CO	CO	5.131893604	4.21395046	2.793746595	1.883706792	1.534122298	1.335491572	1.179363686	1.063465804	0.986203005	0.94649975	0.943683046	0.955197275	0.955197275	
2011	T6 Public - DSL	CO	CO	4.275282407	3.753033382	2.893197284	2.244903709	1.854757203	1.565683183	1.323963181	1.127800781	0.975900093	0.867340995	0.801487193	0.784161294	0.784161294	
2011	T6 utility - DSL	CO	CO	2.204686189	1.802093061	1.202186253	0.819163686	0.650865682	0.548320889	0.469706769	0.411872841	0.372219461	0.348910937	0.340610953	0.341667292	0.341667292	
2011	T6TS - GAS	CO	CO	47.76097014	36.28094599	28.79808301	23.94137125	20.64654098	18.43214074	17.01162731	16.22347051	15.91194923	16.32704076	17.44758237	19.39704183	22.56053536	
2011	T7 Ag - DSL	CO	CO	22.95523571	20.57493919	16.43793879	13.12033444	10.96094294	9.302065649	7.890240141	6.725498177	5.809627463	5.146431016	4.741637224	4.619176842	4.619176842	
2011	T7 CAIRP - DSL	CO	CO	15.8957336	13.15780151	8.872718767	6.053647484	4.906618458	4.233384841	3.69760091	3.293085867	3.015890717	2.863861111	2.836315195	2.836315195	2.836315195	
2011	T7 CAIRP construction - DSL	CO	CO	14.83539211	11.97291753	7.609337718	4.948946591	4.080617533	3.645456404	3.315427117	3.084774897	2.949538557	2.907147885	2.956126951	3.011908407	3.011908407	
2011	T7 NOOS - DSL	CO	CO	11.86644324	9.636993716	6.264611245	4.162112619	3.383064365	2.953399979	2.62469176	2.387689955	2.25840246	2.164639532	2.17116119	2.20041486	2.20041486	
2011	T7 NOOS - DSL	CO	CO	15.8957336	13.15780151	8.872718767	6.053647484	4.906618458	4.233384841	3.69760091	3.293085867	3.015890717	2.863861111	2.836315195	2.836315195	2.836315195	
2011	T7 other port - DSL	CO	CO	6.682164646	5.414907981	3.451593743	2.242380234	1.855889953	1.66571775	1.518888964	1.415054402	1.354085002	1.336045675	1.36117603	1.388785496	1.388785496	
2011	T7 POAK - DSL	CO	CO	6.132931598	5.008958656	3.25207967	2.145193572	1.765758395	1.567842948	1.412335775	1.299033308	1.227964331	1.199373583	1.213709217	1.235403534	1.235403534	
2011	T7 Public - DSL	CO	CO	7.537926377	6.658206114	4.529646022	3.184942933	2.484942083	2.112287538	1.819788315	1.603866133	1.462142507	1.416882777				
2011	T7 Single - DSL	CO	CO	11.85018017	10.81391176	7.568528913	5.681414407	4.68919318	3.997911687	3.425358455	2.967474822	2.621822077	2.387291997	2.263893539	2.238698032	2.238698032	
2011	T7 single construction - DSL	CO	CO	11.60207679	9.299699674	7.133097675	5.163626342	4.195083832	3.593228676	3.037026554	2.624977252	2.322034494	2.128865656	2.04774683	2.038454575	2.038454575	
2011	T7 SWCV - DSL	CO	CO	0.38003927	0.320382002	0.232215116	0.170283432	0.134285988	0.1091491	0.089298484	0.073941309	0.06250341	0.054574257				
2011	T7 tractor - DSL	CO	CO	18.17905395	15.65056442	11.49030074	8.432914708	6.838419038	5.762367805	4.872160409	4.16341847	3.634733019	3.287332623	3.124842501	3.096776886	3.096776886	
2011	T7 tractor construction - DSL	CO	CO	17.82108947	15.07001325	10.65042642	7.607223015	6.22251962	5.34242398	4.622364321	4.059185186	3.651902758	3.401468892	3.310594026	3.3105105	3.3105105	
2011	T7 utility - DSL	CO	CO	5.131550232	4.272505849	2.964307004	2.085056725	1.667722128	1.401449007	1.191214965	1.030978409	0.91658503	0.84534506	0.815721739	0.813359197	0.813359197	
2011	T7IS - GAS	CO	CO	234.4676318	174.1202212	136.9860529	113.3700185	96.68164962	85.8290799	79.01974732	75.34832595	75.08634491	77.11874202	82.668296123	93.72159002	112.0807992	
2011	UBUS - DSL	CO	CO	39.49202162	32.51277608	21.42684909	14.17100753	11.32824742	9.66750973	7.833788653	7.309054563	6.566772742	6.103131942	5.913593514	6.007635409	6.379972402	
2011	UBUS - GAS	CO	CO	47.01761045	34.48411048	26.60125905											

CO Emissions All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00016	0.00102	0.00433	0.04321	0.02098	0.01945	0.02738	0.01614	0.02329	0.01955	0.03661	0.04565	0.00782	0.00000	0.27
0.00138	0.00716	0.02660	0.24002	0.11346	0.10751	0.16284	0.10776	0.18028	0.17898	0.39909	0.59459	0.12693	0.03534	2.28
0.29579	1.75937	8.54278	100.93980	54.08205	54.03300	83.05191	53.85680	85.41629	77.41301	150.99396	193.04154	35.02546	8.95385	907.41
0.00008	0.00042	0.00174	0.01775	0.00871	0.00837	0.01283	0.00859	0.01455	0.01461	0.03292	0.04944	0.01062	0.00297	0.18
0.08280	0.48249	2.30564	26.81862	14.19616	14.08863	21.59221	14.01216	22.29351	20.39952	40.41297	52.58312	9.72509	2.51299	241.51
0.00001	0.00004	0.00017	0.00176	0.00087	0.00084	0.00129	0.00087	0.00147	0.00148	0.00334	0.00503	0.00108	0.00030	0.02
0.12261	0.75205	3.72667	44.70741	24.18020	24.24402	37.23967	24.02928	37.81493	33.71419	64.20156	79.50558	13.82995	3.44424	391.51
0.01062	0.05449	0.22372	2.26664	1.11025	1.06594	1.63348	1.09317	1.84939	1.85594	4.18062	0.00000	0.00000	0.00000	15.34
0.02077	0.11604	0.54319	6.16043	3.19941	3.16895	4.85276	3.16616	5.14677	4.89739	10.04918	0.00000	0.00000	0.00000	41.32
0.00195	0.01006	0.04017	0.39530	0.19199	0.18376	0.28085	0.18746	0.31634	0.31669	0.71175	0.00000	0.00000	0.00000	2.64
0.00199	0.01100	0.05103	0.57496	0.29735	0.29382	0.45010	0.29442	0.48048	0.45974	0.95253	0.00000	0.00000	0.00000	3.87
0.08038	0.42199	1.88016	20.35869	10.24705	10.02265	15.46264	10.30707	16.92781	16.76865	37.04252	53.98668	11.23603	3.09755	207.84
0.00025	0.00130	0.00427	0.03216	0.01420	0.01310	0.01935	0.01249	0.02037	0.01971	0.04287	0.06267	0.01318	0.00364	0.26
0.13009	0.79758	3.95169	47.42830	25.66641	25.74555	39.56345	25.54070	40.21848	35.87740	68.36130	84.76145	14.77687	3.68548	416.50
0.00011	0.00064	0.00260	0.02489	0.01210	0.01137	0.01627	0.00977	0.01440	0.01234	0.02350	0.02975	0.00537	0.00000	0.16
0.00617	0.03220	0.14096	1.52291	0.76619	0.74502	1.14868	0.76807	1.28269	1.27273	2.82297	4.14037	0.86531	0.00000	15.51
0.00017	0.00101	0.00410	0.03906	0.01879	0.01752	0.02493	0.01492	0.02198	0.01894	0.03658	0.04613	0.00791	0.00000	0.25
0.00128	0.00781	0.03905	0.46611	0.25110	0.25254	0.38945	0.25199	0.39609	0.35521	0.69285	0.87473	0.15457	0.00000	4.13
0.00000	0.00000	0.00000	0.00628	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.41
0.00042	0.00264	0.01151	0.11759	0.05763	0.05359	0.07559	0.04454	0.06409	0.05352	0.09950	0.12352	0.00000	0.00000	0.70
0.00354	0.01892	0.08547	0.94522	0.48438	0.47557	0.73533	0.48772	0.80455	0.77216	1.70814	2.42334	0.00000	0.00000	8.94
0.00126	0.00799	0.03555	0.37127	0.18371	0.17158	0.24282	0.14337	0.20633	0.17187	0.31778	0.39310	0.06737	0.00000	2.31
0.00009	0.00055	0.00221	0.02098	0.01017	0.00957	0.01374	0.00831	0.01236	0.01074	0.02080	0.02631	0.00451	0.00000	0.14
0.00022	0.00132	0.00501	0.04541	0.02211	0.02125	0.03137	0.01961	0.03026	0.02722	0.05419	0.06924	0.01187	0.00000	0.34
0.00032	0.00196	0.00814	0.07941	0.03845	0.03582	0.05075	0.03016	0.04400	0.03744	0.07119	0.08941	0.01532	0.00000	0.50
0.00155	0.00925	0.03609	0.33430	0.16212	0.15395	0.22404	0.13773	0.20883	0.18478	0.36319	0.46194	0.07917	0.00000	2.36
0.00568	0.03494	0.14582	1.43646	0.70160	0.65775	0.93860	0.56193	0.82503	0.70504	1.34138	1.68303	0.28844	0.00000	9.33
0.01156	0.06863	0.26581	2.45614	1.19906	1.14792	1.68590	1.04655	1.60168	1.42802	2.81968	3.59075	0.61540	0.00000	17.94
0.00005	0.00031	0.00127	0.01202	0.00583	0.00548	0.00787	0.00476	0.00708	0.00615	0.01192	0.01508	0.00258	0.00000	0.08
0.00013	0.00075	0.00287	0.02602	0.01267	0.01217	0.01797	0.01124	0.01734	0.01559	0.03105	0.03967	0.00680	0.00000	0.19
0.00029	0.00182	0.00804	0.08392	0.04144	0.03862	0.05460	0.03225	0.04643	0.03867	0.07136	0.08814	0.01511	0.00000	0.52
0.00004	0.00024	0.00091	0.00835	0.00396	0.00369	0.00528	0.00321	0.00483	0.00424	0.00827	0.01047	0.00179	0.00000	0.06
0.01613	0.08793	0.40051	4.47657	2.30768	2.27400	3.50944	2.32023	3.78668	3.64122	7.77015	10.90546	2.17291	0.00000	43.67
0.00091	0.00586	0.02689	0.28855	0.14410	0.13499	0.19145	0.11313	0.16262	0.13500	0.24837	0.30546	0.05235	0.00000	1.81
0.01418	0.08428	0.32614	2.99163	1.44946	1.38044	2.01607	1.24476	1.89691	1.68805	3.33844	4.25484	0.72921	0.00000	21.41
0.00045	0.00263	0.00961	0.08401	0.04141	0.04083	0.06209	0.04005	0.06372	0.05886	0.11952	0.15373	0.02635	0.00000	0.70
0.01313	0.07654	0.28553	2.55051	1.23924	1.19419	1.77454	1.11913	1.74379	1.58213	3.16886	4.05443	0.69486	0.00000	19.50
0.00560	0.03329	0.12882	1.18169	0.57253	0.54527	0.79635	0.49168	0.74928	0.66678	1.31868	1.68066	0.28804	0.00000	8.46
0.00005	0.00031	0.00113	0.00989	0.00489	0.00485	0.00739	0.00477	0.00760	0.00703	0.01430	0.01842	0.00316	0.00000	0.08
0.00013	0.00074	0.00277	0.02455	0.01208	0.01184	0.01784	0.01137	0.01789	0.01637	0.03309	0.04252	0.00729	0.00000	0.20
0.00098	0.00622	0.02822	0.30311	0.15063	0.14007	0.19776	0.11654	0.16707	0.13799	0.25120	0.30731	0.05267	0.00000	1.86
0.00771	0.04767	0.20274	2.04613	1.00950	0.95006	1.36106	0.81744	1.20176	1.02548	1.94192	2.42429	0.41548	0.00000	13.45
0.00092	0.00563	0.02330	0.22675	0.11012	0.10313	0.14714	0.08817	0.12978	0.11150	0.21418	0.26916	0.04613	0.00000	1.48
0.00007	0.00040	0.00167	0.01645	0.00776	0.00696	0.00952	0.00546	0.00769	0.00629	0.00000	0.00000	0.00000	0.00000	0.06
0.01081	0.06679	0.28140	2.77662	1.34594	1.25192	1.76992	1.04852	1.52317	1.29099	2.45055	3.06591	0.52545	0.00000	17.41
0.00105	0.00639	0.02594	0.24906	0.12178	0.11541	0.16697	0.10165	0.15217	0.13283	0.25816	0.32615	0.05590	0.00000	1.71
0.00002	0.00012	0.00047	0.00449	0.00215	0.00199	0.00283	0.00170	0.00251	0.00217	0.00418	0.00527	0.00090	0.00000	0.03
0.01050	0.05599	0.25276	2.81245	1.43371	1.40495	2.16281	1.42972	2.37076	2.28186	4.88454	6.99099	1.43285	0.00000	27.52
0.01100	0.06499	0.24578	2.18539	1.04429	0.98374	1.41865	0.86215	1.28890	1.12260	2.17209	2.78577	0.50703	0.00000	14.69
0.00386	0.02034	0.09002	0.98009	0.49371	0.48180	0.74360	0.49554	0.82340	0.81188	1.78148	2.58944	0.53676	0.00000	9.85 NOx

2,478.73 2011 Tons/Year

Emissions (Tons)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00004	0.00020	0.00089	0.00777	0.00339	0.00289	0.00360	0.00185	0.00236	0.00170	0.00269	0.00300	0.00050	0.00000	0.03
0.00000	0.01451	0.04828	0.26126	0.10188	0.09229	0.12876	0.07732	0.11984	0.10813	0.22064	0.29917	0.05874	0.01627	1.55
0.00000	0.60857	3.53224	39.00239	21.07467	22.30604	33.63121	21.08756	33.83422	29.41785	55.65023	63.95133	10.41552	2.58486	337.10
0.00000	0.00017	0.00071	0.00571	0.00266	0.00261	0.00392	0.00255	0.00431	0.00427	0.00959	0.01407	0.00295	0.00085	0.05
0.00000	0.11304	0.63949	6.91589	3.68554	3.86261	5.81578	3.65586	5.87986	5.17830	9.98276	11.83782	2.00002	0.50818	60.08
0.00000	0.00063	0.00202	0.00991	0.00363	0.00318	0.00429	0.00247	0.00364	0.00308	0.00581	0.00731	0.00134	0.00035	0.05

0.00000	0.31184	1.81346	20.04218	10.83505	11.46686	17.29249	10.83933	17.36623	15.08099	28.46948	32.62764	5.28475	1.30666	172.74
0.00830	0.04098	0.17258	1.41193	0.66176	0.64883	0.97714	0.63623	1.07671	1.06769	2.40329	0.00000	0.00000	0.00000	9.11
0.00575	0.03095	0.16511	1.69840	0.87600	0.89991	1.36556	0.87047	1.42540	1.34784	2.73622	0.00000	0.00000	0.00000	11.42
0.00194	0.00970	0.03687	0.26023	0.11560	0.11099	0.16398	0.10475	0.17387	0.16910	0.37358	0.00000	0.00000	0.00000	1.52
0.00037	0.00207	0.01127	0.11776	0.06134	0.06336	0.09609	0.06088	0.09882	0.09216	0.18273	0.00000	0.00000	0.00000	0.79
0.00000	0.26791	1.37188	13.54935	6.85475	6.92907	10.68079	7.00234	11.45110	11.04512	23.90506	33.97705	6.79288	1.89994	135.73
0.00000	0.00636	0.02036	0.09972	0.03645	0.03194	0.04298	0.02472	0.03633	0.03067	0.05767	0.07227	0.01314	0.00348	0.48
0.00000	0.35770	2.03640	22.14589	11.86303	12.48658	18.85703	11.87982	19.11975	16.84301	32.47584	38.60070	6.54400	1.66742	194.88
0.00008	0.00045	0.00189	0.01487	0.00697	0.00675	0.00962	0.00571	0.00856	0.00738	0.01427	0.01788	0.00318	0.00000	0.10
0.00131	0.00663	0.03368	0.33373	0.16857	0.17038	0.26042	0.16959	0.28336	0.27295	0.59376	0.83914	0.17012	0.00000	3.30
0.00006	0.00034	0.00152	0.01321	0.00575	0.00489	0.00606	0.00310	0.00395	0.00283	0.00443	0.00489	0.00082	0.00000	0.05
0.00032	0.00200	0.01182	0.13060	0.07083	0.07419	0.11360	0.07164	0.11214	0.09725	0.18291	0.21421	0.03437	0.00000	1.12
0.00000	0.00000	0.00000	0.14847	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.15
0.00010	0.00055	0.00249	0.02152	0.00978	0.00886	0.01177	0.00650	0.00907	0.00728	0.01322	0.01592	0.00000	0.00000	0.11
0.00021	0.00133	0.00783	0.08673	0.04705	0.04941	0.07559	0.04761	0.07425	0.06480	0.12024	0.14030	0.00000	0.00000	0.72
0.00065	0.00387	0.01909	0.17739	0.08560	0.08151	0.11329	0.06513	0.09389	0.07737	0.14294	0.17328	0.02918	0.00000	1.06
0.00003	0.00014	0.00063	0.00549	0.00238	0.00201	0.00248	0.00126	0.00158	0.00111	0.00169	0.00183	0.00031	0.00000	0.02
0.00009	0.00049	0.00211	0.01761	0.00792	0.00716	0.00961	0.00544	0.00783	0.00650	0.01209	0.01465	0.00247	0.00000	0.09
0.00011	0.00063	0.00285	0.02476	0.01086	0.00934	0.01176	0.00613	0.00798	0.00589	0.00962	0.01092	0.00184	0.00000	0.10
0.00098	0.00535	0.02259	0.18498	0.08455	0.07866	0.10925	0.06415	0.09616	0.08314	0.16050	0.19790	0.03333	0.00000	1.12
0.00282	0.01556	0.07058	0.61556	0.26742	0.22611	0.27883	0.14150	0.17796	0.12530	0.19182	0.20898	0.03520	0.00000	2.36
0.00894	0.04882	0.20937	1.73854	0.78558	0.71621	0.97197	0.55641	0.81210	0.68370	1.28758	1.56987	0.26441	0.00000	9.65
0.00001	0.00008	0.00036	0.00314	0.00137	0.00116	0.00143	0.00073	0.00091	0.00065	0.00099	0.00109	0.00018	0.00000	0.01
0.00005	0.00028	0.00121	0.01009	0.00454	0.00410	0.00551	0.00311	0.00449	0.00373	0.00693	0.00839	0.00141	0.00000	0.05
0.00005	0.00026	0.00118	0.01041	0.00473	0.00426	0.00561	0.00308	0.00425	0.00335	0.00594	0.00705	0.00119	0.00000	0.05
0.00002	0.00010	0.00046	0.00403	0.00175	0.00147	0.00180	0.00090	0.00112	0.00077	0.00114	0.00122	0.00021	0.00000	0.01
0.00182	0.01044	0.05866	0.62693	0.33315	0.34548	0.52856	0.33618	0.53634	0.47959	0.94547	1.18674	0.21040	0.00000	5.60
0.00054	0.00324	0.01643	0.15699	0.07681	0.07376	0.10327	0.05971	0.08642	0.07133	0.13174	0.15917	0.02681	0.00000	0.97
0.00521	0.02878	0.13070	1.14074	0.49523	0.41812	0.51465	0.26050	0.32643	0.22863	0.34741	0.37667	0.06344	0.00000	4.34
0.00022	0.00120	0.00544	0.04731	0.02060	0.01751	0.02174	0.01113	0.01419	0.01017	0.01597	0.01767	0.00298	0.00000	0.19
0.00468	0.02586	0.11752	1.02671	0.44527	0.37523	0.46068	0.23237	0.28976	0.20152	0.30308	0.32636	0.05497	0.00000	3.86
0.00206	0.01135	0.05151	0.44940	0.19519	0.16495	0.20328	0.10306	0.12945	0.09097	0.13889	0.15106	0.02544	0.00000	1.72
0.00007	0.00037	0.00168	0.01473	0.00638	0.00538	0.00659	0.00332	0.00413	0.00286	0.00429	0.00460	0.00078	0.00000	0.06
0.00014	0.00079	0.00360	0.03149	0.01365	0.01150	0.01411	0.00711	0.00886	0.00615	0.00923	0.00992	0.00167	0.00000	0.12
0.00037	0.00208	0.00967	0.08625	0.03874	0.03407	0.04387	0.02338	0.03115	0.02354	0.03947	0.04539	0.00765	0.00000	0.39
0.00343	0.01896	0.08588	0.74773	0.32636	0.27809	0.34626	0.17792	0.22753	0.16393	0.25923	0.28826	0.04855	0.00000	2.97
0.00041	0.00226	0.01024	0.08904	0.03896	0.03335	0.04174	0.02159	0.02784	0.02029	0.03263	0.03665	0.00617	0.00000	0.36
0.00007	0.00040	0.00181	0.01583	0.00693	0.00591	0.00736	0.00377	0.00480	0.00344	0.00000	0.00000	0.00000	0.00000	0.05
0.00356	0.01967	0.08925	0.77809	0.33838	0.28660	0.35417	0.18021	0.22746	0.16097	0.24832	0.27188	0.04579	0.00000	3.00
0.00043	0.00236	0.01066	0.09240	0.04043	0.03465	0.04347	0.02257	0.02928	0.02151	0.03489	0.03939	0.00663	0.00000	0.38
0.00001	0.00005	0.00022	0.00194	0.00084	0.00071	0.00087	0.00044	0.00054	0.00037	0.00055	0.00059	0.00010	0.00000	0.01
0.00224	0.01321	0.07532	0.81248	0.43549	0.45486	0.69798	0.44268	0.69852	0.62161	1.21213	1.48046	0.25179	0.00000	7.20
0.00735	0.04016	0.15897	1.15910	0.53054	0.51236	0.73191	0.43731	0.66146	0.57522	1.12085	1.41417	0.25246	0.00000	7.60
0.00120	0.00618	0.03162	0.31558	0.16195	0.16400	0.25019	0.16235	0.27028	0.25668	0.55101	0.76957	0.15489	0.00000	3.10 NOx

987.49 2020 Tons/Year

Emissions (Tons)

2035

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00010	0.00063	0.00163	0.00856	0.00353	0.00390	0.00503	0.00290	0.00240	0.00197	0.00222	0.00214	0.00024	0.00000	0.04
0.00000	0.06443	0.11486	0.32566	0.11023	0.12497	0.17450	0.11256	0.10729	0.10379	0.14033	0.14965	0.01726	0.00584	1.55
0.00000	1.37964	4.56290	30.49972	15.75022	21.95769	34.95801	25.08066	26.80778	27.63744	39.39756	40.39595	4.38563	1.43617	274.25
0.00000	0.00022	0.00040	0.00119	0.00042	0.00049	0.00070	0.00047	0.00046	0.00048	0.00070	0.00081	0.00010	0.00004	0.01
0.00000	0.12061	0.39812	2.65627	1.37001	1.90779	3.03733	2.17937	2.32813	2.40195	3.42731	3.52147	0.38286	0.12549	23.86
0.00000	0.00480	0.00855	0.02416	0.00816	0.00923	0.01287	0.00828	0.00787	0.00758	0.01019	0.01078	0.00123	0.00041	0.11
0.00000	0.83010	2.74626	18.35688	9.48037	13.21472	21.04662	15.10264	16.13327	16.63393	23.71077	24.32214	2.63952	0.86422	165.08
0.01675	0.09746	0.18983	0.67229	0.26156	0.31827	0.47954	0.33845	0.36062	0.40105	0.64506	0.00000	0.00000	0.00000	3.78
0.00133	0.00953	0.03179	0.21104	0.10826	0.14938	0.23940	0.17125	0.17968	0.18943	0.26405	0.00000	0.00000	0.00000	1.56
0.00653	0.03829	0.06899	0.20178	0.06986	0.08020	0.11360	0.07461	0.07287	0.07289	0.10327	0.00000	0.00000	0.00000	0.90
0.00019	0.00133	0.00445	0.02954	0.01515	0.02091	0.03351	0.02397	0.02515	0.02651	0.03696	0.00000	0.00000	0.00000	0.22
0.00000	0.93755	2.76854	16.76151	8.17306	10.93484	17.76460	13.23985	14.33332	16.17761	25.99893	32.47062	4.28826	1.58082	165.43
0.00000	0.03249	0.05786	0.16360	0.05525	0.06257	0.08724	0.05617	0.05341	0.05149	0.06925	0.07341	0.00840	0.00283	0.77
0.00000	0.50794	1.67722	11.19309	5.77403	8.04133	12.80369	9.18737	9.81356	10.12403	14.44394	14.83871	1.61281	0.52856	100.55
0.00017	0.00104	0.00197	0.00653	0.00247	0.00296	0.00431	0.00288	0.00285	0.00288	0.00414	0.00462	0.00055	0.00000	0.04

0.00017	0.00119	0.00398	0.02646	0.01367	0.01882	0.03041	0.02196	0.02291	0.02363	0.03364	0.03541	0.00382	0.00000	0.24
0.00021	0.00134	0.00343	0.01803	0.00743	0.00821	0.01060	0.00610	0.00504	0.00414	0.00467	0.00451	0.00051	0.00000	0.07
0.00024	0.00171	0.00572	0.03804	0.01965	0.02705	0.04372	0.03156	0.03294	0.03396	0.04835	0.05090	0.00549	0.00000	0.34
0.00000	0.00000	0.00000	0.34765	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.35
0.00032	0.00206	0.00527	0.02765	0.01142	0.01267	0.01648	0.00956	0.00802	0.00671	0.00777	0.00763	0.00000	0.00000	0.12
0.00006	0.00043	0.00144	0.00960	0.00495	0.00683	0.01103	0.00796	0.00828	0.00861	0.01214	0.01280	0.00000	0.00000	0.08
0.00068	0.00433	0.01112	0.05844	0.02408	0.02660	0.03436	0.01977	0.01635	0.01343	0.01514	0.01460	0.00167	0.00000	0.24
0.00010	0.00064	0.00166	0.00870	0.00359	0.00396	0.00512	0.00294	0.00243	0.00200	0.00225	0.00217	0.00025	0.00000	0.04
0.00029	0.00187	0.00481	0.02528	0.01042	0.01151	0.01486	0.00855	0.00707	0.00581	0.00655	0.00632	0.00072	0.00000	0.10
0.00067	0.00427	0.01096	0.05762	0.02375	0.02623	0.03388	0.01949	0.01613	0.01325	0.01494	0.01441	0.00165	0.00000	0.24
0.00401	0.02547	0.06541	0.34388	0.14172	0.15652	0.20222	0.11635	0.09625	0.07907	0.08915	0.08601	0.00983	0.00000	1.42
0.01600	0.10166	0.26109	1.37259	0.56567	0.62471	0.80705	0.46431	0.38407	0.31547	0.35560	0.34299	0.03919	0.00000	5.65
0.03804	0.24176	0.62092	3.26421	1.34525	1.48566	1.91929	1.10420	0.91337	0.75022	0.84566	0.81567	0.09319	0.00000	13.44
0.00006	0.00037	0.00095	0.00499	0.00206	0.00227	0.00293	0.00169	0.00140	0.00115	0.00129	0.00125	0.00014	0.00000	0.02
0.00017	0.00107	0.00276	0.01448	0.00597	0.00659	0.00852	0.00490	0.00405	0.00333	0.00375	0.00362	0.00041	0.00000	0.06
0.00008	0.00054	0.00137	0.00719	0.00299	0.00335	0.00441	0.00260	0.00222	0.00191	0.00231	0.00233	0.00027	0.00000	0.03
0.00008	0.00048	0.00123	0.00646	0.00266	0.00294	0.00380	0.00219	0.00181	0.00148	0.00167	0.00161	0.00018	0.00000	0.03
0.00050	0.00354	0.01183	0.07871	0.04066	0.05598	0.09047	0.06532	0.06816	0.07029	0.10006	0.10533	0.01137	0.00000	0.70
0.00055	0.00348	0.00894	0.04700	0.01937	0.02139	0.02763	0.01590	0.01315	0.01080	0.01218	0.01174	0.00134	0.00000	0.19
0.01789	0.11370	0.29202	1.53516	0.63267	0.69870	0.90264	0.51931	0.42956	0.35283	0.39771	0.38361	0.04383	0.00000	6.32
0.00120	0.00762	0.01956	0.10284	0.04238	0.04681	0.06047	0.03479	0.02878	0.02364	0.02665	0.02571	0.00294	0.00000	0.42
0.01940	0.12330	0.31668	1.66482	0.68610	0.75772	0.97888	0.56317	0.46584	0.38263	0.43130	0.41601	0.04753	0.00000	6.85
0.00707	0.04494	0.11542	0.60675	0.25005	0.27615	0.35676	0.20525	0.16978	0.13945	0.15719	0.15162	0.01732	0.00000	2.50
0.00025	0.00161	0.00414	0.02175	0.00896	0.00990	0.01279	0.00736	0.00609	0.00500	0.00564	0.00544	0.00062	0.00000	0.09
0.00074	0.00472	0.01212	0.06372	0.02626	0.02900	0.03746	0.02155	0.01783	0.01464	0.01651	0.01592	0.00182	0.00000	0.26
0.00142	0.00901	0.02310	0.12116	0.05016	0.05583	0.07283	0.04244	0.03572	0.03010	0.03526	0.03488	0.00399	0.00000	0.52
0.02040	0.12968	0.33305	1.75085	0.72156	0.79687	1.02946	0.59227	0.48991	0.40240	0.45359	0.43751	0.04999	0.00000	7.21
0.00257	0.01631	0.04188	0.22014	0.09073	0.10022	0.12949	0.07452	0.06166	0.05068	0.05717	0.05518	0.00630	0.00000	0.91
0.00025	0.00156	0.00401	0.02108	0.00871	0.00965	0.01251	0.00723	0.00602	0.00500	0.00000	0.00000	0.00000	0.00000	0.08
0.01265	0.08042	0.20655	1.08583	0.44749	0.49420	0.63845	0.36731	0.30383	0.24956	0.28131	0.27133	0.03100	0.00000	4.47
0.00241	0.01531	0.03932	0.20673	0.08520	0.09409	0.12156	0.06994	0.05786	0.04753	0.05359	0.05170	0.00591	0.00000	0.85
0.00004	0.00023	0.00060	0.00317	0.00131	0.00144	0.00186	0.00107	0.00089	0.00073	0.00082	0.00079	0.00009	0.00000	0.01
0.00737	0.05280	0.17606	1.16774	0.60423	0.83473	1.35257	0.97686	1.01471	1.05286	1.50766	1.58048	0.16903	0.00000	10.50
0.01550	0.09285	0.17739	0.59246	0.22481	0.26954	0.39146	0.26053	0.25644	0.25849	0.37003	0.41302	0.04935	0.00000	3.37
0.00030	0.00213	0.00710	0.04723	0.02457	0.03382	0.05462	0.03944	0.04116	0.04238	0.06029	0.06337	0.00683	0.00000	0.42

0.42 NOx
806.27 2035 Tons/Year

Mobile Emissions Calculations – PM10 (annual)

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

PM10 Emissions All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day													ALL SPEEDS	
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH		70MPH
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	16.74	4.10	413	
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	81.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,493
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,242	
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,363
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,459
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	
Year	Vehicle Type	EMFAC2011 Vehicle Type		5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.48%	185.03	1262.24	8159.01	98660.05	58323.61	66549.64	110538.57	75396.98	126695.73	118496.99	238667.19	296763.34	49982.34	12588.39	1,262,209
2020	LDT1 - DSL		0.01%	0.03	0.18	1.17	14.17	8.38	9.56	15.88	10.82	18.20	17.02	34.28	42.62	7.18	1.81	181
2020	LDT1 - GAS		4.25%	16.57	113.02	730.56	8834.04	5222.31	5958.86	9897.64	6745.68	11344.35	10610.24	21370.30	26572.23	4475.43	1127.17	113,018
2020	LDT2 - DSL		0.04%	0.14	0.97	6.24	75.45	44.60	50.89	84.53	57.61	96.89	90.62	182.52	226.95	38.22	9.63	965
2020	LDT2 - GAS		20.91%	81.50	555.94	3593.57	43453.99	25688.15	29311.23	48685.79	33181.54	55802.08	52191.01	105118.97	130706.93	22014.31	5544.45	555,929
2020	LHD1 - DSL		1.58%	6.17	42.11	272.17	3291.07	1945.54	2219.94	3687.31	2513.07	4226.28	3952.79	79				

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6TS - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.47	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	268827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check		194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86	

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	10.79	16.51	18.55	2.12	0.71	97	
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	89099.41	100808.50	112360.01	171867.32	193190.80	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	1,830
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,946
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9668.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055
2035																		

2020	T6 instate construction small - DSL	PM10	0.209577122	0.205877157	0.199607108	0.194100085	0.190888778	0.189935559	0.190731216	0.193243954	0.197453994	0.2033482	0.210917415	0.215327917	0.215327917	0.215327917	0.142340041
2020	T6 instate heavy - DSL	PM10	0.159109178	0.157378211	0.155063098	0.153495093	0.152451032	0.151682923	0.151091685	0.150642679	0.150315401	0.150095972	0.149974692	0.149948581	0.149948581	0.149948581	0.142340041
2020	T6 instate small - DSL	PM10	0.189845867	0.187187871	0.182753245	0.178890264	0.176604673	0.175879006	0.176362484	0.178029278	0.180863308	0.184853883	0.18999353	0.1929925	0.1929925	0.1929925	0.142340041
2020	T6 OOS heavy - DSL	PM10	0.156916552	0.155371564	0.153237736	0.151775386	0.150863898	0.150225117	0.149755743	0.149429592	0.149231666	0.149150197	0.149178074	0.149231262	0.149231262	0.149231262	0.142340041
2020	T6 OOS small - DSL	PM10	0.182850186	0.180545311	0.176735183	0.173439301	0.171478113	0.170829688	0.171197624	0.172558303	0.174897025	0.178204012	0.182472433	0.184965576	0.184965576	0.184965576	0.142340041
2020	T6 Public - DSL	PM10	0.248917395	0.232405181	0.205949738	0.187593591	0.179872513	0.175319729	0.172071245	0.170106396	0.169408419	0.169968994	0.17178393	0.173153698	0.173153698	0.173153698	0.142340041
2020	T6 utility - DSL	PM10	0.146276875	0.145881389	0.145383137	0.145054947	0.144809818	0.144640487	0.144451145	0.144311566	0.144189484	0.144080996	0.143983376	0.143983376	0.143983376	0.143983376	0.142340041
2020	T6TS - GAS	PM10	0.150486574	0.147517437	0.145811403	0.14479515	0.144171309	0.143780396	0.143534452	0.143384124	0.143301983	0.143274021	0.143295588	0.143370075	0.143370075	0.143370075	0.142340041
2020	T7 Ag - DSL	PM10	0.208440565	0.174574529	0.1291097085	0.946501838	0.804301758	0.78114966	0.651399101	0.604254764	0.576896969	0.570114259	0.584339152	0.598313997	0.598313997	0.598313997	0.097740028
2020	T7 CAIRP - DSL	PM10	0.13024014	0.126895009	0.12257149	0.119596088	0.117569242	0.116054408	0.114868801	0.113944747	0.113240117	0.112726899	0.112835517	0.11274665	0.11274665	0.11274665	0.097740028
2020	T7 CAIRP construction - DSL	PM10	0.136434099	0.132597978	0.127366697	0.123746237	0.121390822	0.119751972	0.118584643	0.117818929	0.117411618	0.117334351	0.117567749	0.117794667	0.117794667	0.117794667	0.097740028
2020	T7 NNOOS - DSL	PM10	0.112336876	0.110931005	0.109121652	0.107900034	0.107011068	0.106336757	0.105809745	0.105397987	0.105081531	0.104847113	0.104685461	0.104629745	0.104629745	0.104629745	0.097740028
2020	T7 NNOOS - DSL	PM10	0.131219062	0.127745364	0.123083703	0.119923671	0.11783651	0.116308304	0.115134595	0.114249215	0.113610974	0.113192481	0.112974597	0.112936387	0.112936387	0.112936387	0.097740028
2020	T7 other port - DSL	PM10	0.143577643	0.138990404	0.133202179	0.129881775	0.126533242	0.124267832	0.122390928	0.120793515	0.119407728	0.118188441	0.117104117	0.116605159	0.116605159	0.116605159	0.097740028
2020	T7 POAK - DSL	PM10	0.151983775	0.146557839	0.13971002	0.135189112	0.1318119	0.129140114	0.126921964	0.125035649	0.123400925	0.121964433	0.120688885	0.120102706	0.120102706	0.120102706	0.097740028
2020	T7 Public - DSL	PM10	0.20152961	0.187093155	0.164160251	0.148037706	0.140863536	0.136398794	0.133012331	0.13066908	0.129350427	0.12905206	0.129779566	0.13049534	0.13049534	0.13049534	0.097740028
2020	T7 Single - DSL	PM10	0.133916552	0.129539429	0.123128962	0.118713049	0.116351474	0.114802859	0.113696718	0.112986695	0.112645196	0.112655447	0.113007551	0.113302264	0.113302264	0.113302264	0.097740028
2020	T7 Single construction - DSL	PM10	0.14626655	0.13966857	0.12975717	0.12296823	0.11966883	0.117595719	0.11613665	0.115244989	0.114896168	0.115079412	0.115793636	0.116324147	0.116324147	0.116324147	0.097740028
2020	T7 SWCV - DSL	PM10	0.119348331	0.116543205	0.112280079	0.109321463	0.107875362	0.106971539	0.106339444	0.10595961	0.105820897	0.105917124	0.105974028	0.105974028	0.105974028	0.105974028	0.097740028
2020	T7 tractor - DSL	PM10	0.147833504	0.142238887	0.134577534	0.129412463	0.126206626	0.123878853	0.122068717	0.12068135	0.119661091	0.118970268	0.11854804	0.118494934	0.118494934	0.118494934	0.097740028
2020	T7 tractor construction - DSL	PM10	0.157730526	0.150856087	0.140892367	0.133991297	0.130169891	0.127686834	0.125983266	0.124977138	0.12462033	0.124883181	0.125750762	0.126392956	0.126392956	0.126392956	0.097740028
2020	T7 utility - DSL	PM10	0.103773582	0.103167466	0.102403849	0.101909267	0.101525186	0.101225209	0.100975486	0.100761569	0.100574466	0.100408199	0.100258587	0.100189046	0.100189046	0.100189046	0.097740028
2020	T7TS - GAS	PM10	0.087753455	0.085612442	0.08436991	0.083623258	0.083161411	0.082879285	0.08268687	0.082575187	0.082515516	0.082497898	0.082519399	0.082592329	0.082592329	0.082592329	0.097740028
2020	UBUS - DSL	PM10	0.065167016	0.101939369	0.85893856	1.064680446	0.85733975	1.00349288	0.85636716	0.960260381	0.855762992	0.942323884	0.855379961	0.931226019	0.931226019	0.931226019	0.097740028
2020	UBUS - GAS	PM10	0.211194251	0.143511017	0.205075435	0.143434321	0.20137663	0.143415104	0.200090045	0.143450157	0.201210616	0.14354468	0.204768402	0.143713604	0.143713604	0.143713604	0.210754435

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2025	All Other Buses - DSL	PM10	0.149045202	0.148371617	0.147523001	0.146964032	0.146546532	0.146213165	0.145935644	0.145697915	0.145489986	0.145305211	0.145138946	0.145061664	0.145061664	0.145061664	0.142340041
2025	LDA - DSL	PM10	0.07413977	0.047020337	0.046663037	0.046377793	0.046183969	0.046042434	0.045935249	0.045852312	0.045787703	0.045738023	0.045741858	0.045754143	0.045754143	0.045754143	0.097740028
2025	LDA - GAS	PM10	0.049148193	0.047670311	0.046795534	0.04626147	0.04592815	0.045718742	0.045590269	0.045518829	0.04549207	0.045505553	0.045615113	0.045669479	0.045748558	0.045748558	0.097740028
2025	LDL1 - DSL	PM10	0.059344105	0.056575131	0.054424437	0.052838549	0.051771874	0.051027998	0.050502617	0.050138874	0.049906348	0.049792933	0.049883934	0.050184110	0.050393235	0.050393235	0.097740028
2025	LDL1 - GAS	PM10	0.049145503	0.047671313	0.046797994	0.046264376	0.04593015	0.045721446	0.045592698	0.045520946	0.045493841	0.045506925	0.04556238	0.045669655	0.045748274	0.045748274	0.097740028
2025	LDL2 - DSL	PM10	0.053254473	0.052165518	0.051077631	0.050174269	0.049556098	0.049095635	0.048736528	0.048446953	0.048207448	0.048005381	0.047915773	0.047916653	0.047916653	0.047916653	0.097740028
2025	LDL2 - GAS	PM10	0.048996781	0.047569366	0.046724927	0.046209243	0.045887409	0.045685226	0.045561194	0.045492321	0.045466411	0.045497945	0.045533507	0.045637788	0.045714166	0.045714166	0.097740028
2025	LHD1 - DSL	PM10	0.133119903	0.122953999	0.115471812	0.110091193	0.106294599	0.103774995	0.102063804	0.100915563	0.100193473	0.099828683	0.099802488	0.099802488	0.099802488	0.099802488	0.097740028
2025	LHD1 - GAS	PM10	0.09191807	0.089145159	0.087563181	0.086627036	0.086055658	0.085699147	0.085475235	0.085337917	0.085261613	0.085231109	0.085247668	0.085247668	0.085247668	0.085247668	0.097740028
2025	LHD2 - DSL	PM10	0.121510604	0.119398969	0.116704343	0.114259728	0.112309066	0.110983487	0.110015653	0.10928286	0.108716029	0.108274663	0.107935549	0.107935549	0.107935549	0.107935549	0.097740028
2025	LHD2 - GAS	PM10	0.104679335	0.101898574	0.100312086	0.99373273	0.998800267	0.998424739	0.998218189	0.99808408	0.998003958	0.997975373	0.997989974	0.997989974	0.997989974	0.997989974	0.097740028
2025	MCV - DSL	PM10	0.024296694	0.021559488	0.019914075	0.018896124	0.018254586	0.01785003	0.017603851	0.017472386	0.017433706	0.017481368	0.017622529	0.017880135	0.018065229	0.018065229	0.097740028
2025	MDV - DSL	PM10	0.047682084	0.047292451	0.046912906	0.046600851	0.046387675	0.046229651	0.046107275	0.046009539	0.045929779	0.045863792	0.045836358	0.045841654	0.045847845	0.045847845	0.097740028
2025	MDV - GAS	PM10	0.049318105	0.047786117	0.046878535	0.046323966	0.045977546	0.045759699	0.045625883	0.045551302	0.045523122	0.045536706	0.045594325	0.045705791	0.045705791	0.045705791	0.097740028
2025	MH - DSL	PM10	0.242072295	0.230075063	0.209842757	0.194626658	0.187023062	0.18268765	0.180009862	0.178813599	0.178994099	0.180506448	0.183295189	0.187600331	0.193351851	0.193351851	0.097740028
2025	MH - GAS	PM10	0.149891504	0.147091432	0.145499901	0.144548553	0.143971558	0.143611542	0.143385429	0.143246761	0.143169707	0.143140923	0.143155624	0.143216224	0.143333093	0.143333093	0.097740028
2025	Motor Coach - DSL	PM10	0.151801118	0.150850686	0.149653271	0.148864557	0.148275459	0.147805073	0.147413487	0.147078049	0.146784658	0.146523938	0.146289336	0.146182029	0.146182029	0.146182029	0.142340041
2025	OBUS - GAS	PM10	0.15003486	0.147181603	0.145553754	0.144590465	0.14400252	0.143635072	0.143405268	0.143236968	0.143185452	0.143156122	0.143171102	0.143232868	0.143351939	0.143351939	0.097740028
2025	PTO - DSL	PM10	0.766684804	0.765765891	0.764570155	0.763749545	0.763157632	0.762723511	0.762400215	0.762167158	0.762011526	0.761924795	0.761901013	0.761911328	0.761900217	0.761900217	0.097740028
2025	SBUS - DSL	PM10	0.758977657	0.756687047	0.755380201	0.754606868	0.754134863	0.753840355	0.753655385	0.753541949	0.753478916	0.753455537					

PM10 Emissions All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00004	0.00023	0.00094	0.00892	0.00445	0.00436	0.00661	0.00429	0.00697	0.00664	0.01406	0.01852	0.00317	0.00022	0.08
0.00000	0.00107	0.00451	0.04703	0.02292	0.02157	0.03201	0.02038	0.03213	0.02932	0.05855	0.07587	0.01373	0.00366	0.36
0.00014	0.00000	0.15722	1.89943	1.06086	1.12142	1.82358	1.24158	2.04201	1.89973	3.77803	4.76227	0.81684	0.20050	20.81
0.00000	0.00001	0.00000	0.00734	0.00316	0.00264	0.00351	0.00203	0.00294	0.00249	0.00465	0.00569	0.00098	0.00025	0.04
0.00139	0.01104	0.06762	0.00000	0.20521	0.19515	0.29525	0.19149	0.30479	0.27729	0.54296	0.67691	0.11517	0.02809	2.91
0.00000	0.00000	0.00000	0.00004	0.00000	0.00055	0.00065	0.00034	0.00044	0.00033	0.00057	0.00064	0.00010	0.00002	0.00
0.00630	0.04694	0.29073	4.38984	2.82459	0.00000	0.92432	0.58548	0.92074	0.83266	1.62528	2.02188	0.34324	0.08348	14.90
0.00017	0.00125	0.00720	0.09698	0.05825	0.06453	0.00000	0.37490	0.50713	0.40668	0.72423	0.00000	0.00000	0.00000	2.24
0.00045	0.00308	0.01701	0.22323	0.13190	0.14555	0.24604	0.00000	0.23044	0.20604	0.40002	0.00000	0.00000	0.00000	1.60
0.00006	0.00046	0.00261	0.03495	0.02083	0.02297	0.03838	0.02662	0.00000	0.11184	0.18604	0.00000	0.00000	0.00000	0.44
0.00006	0.00039	0.00210	0.02695	0.01560	0.01688	0.02795	0.01936	0.03249	0.00000	0.05061	0.00000	0.00000	0.00000	0.19
0.00011	0.00076	0.00432	0.05765	0.03429	0.03774	0.06299	0.04362	0.07256	0.06802	0.00000	0.04320	0.00656	0.00148	0.43
0.00000	0.00001	0.00005	0.00072	0.00043	0.00047	0.00078	0.00054	0.00092	0.00087	0.00176	0.00000	0.00050	0.00103	0.01
0.00366	0.02183	0.10873	1.31653	0.73119	0.77017	1.25824	0.87137	1.48098	1.45247	3.11927	4.13056	0.00000	0.09329	15.36
0.00000	0.00002	0.00008	0.00111	0.00066	0.00072	0.00120	0.00083	0.00137	0.00129	0.00258	0.00327	0.00056	0.00000	0.01
0.00000	0.00083	0.00418	0.04312	0.02030	0.01994	0.03107	0.02051	0.03335	0.03138	0.06462	0.08621	0.01594	0.00000	0.37
0.00000	0.00000	0.00008	0.00103	0.00060	0.00065	0.00107	0.00074	0.00122	0.00114	0.00227	0.00286	0.00049	0.00012	0.01
0.00011	0.00055	0.00259	0.03075	0.01676	0.01761	0.02944	0.02148	0.03937	0.03914	0.07815	0.02385	0.00409	0.00000	0.30
0.00000	0.00000	0.00000	0.01018	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01
0.00001	0.00006	0.00000	0.00527	0.00309	0.00337	0.00560	0.00386	0.00641	0.00600	0.01197	0.01510	0.00259	0.00063	0.06
0.00000	0.00077	0.00394	0.04198	0.02057	0.02070	0.03265	0.02163	0.03492	0.03228	0.06469	0.08339	0.00000	0.00000	0.36
0.00015	0.00070	0.00405	0.05439	0.03251	0.03589	0.06001	0.00000	0.07216	0.06660	0.13177	0.16540	0.02824	0.00689	0.66
0.00001	0.00008	0.00000	0.01938	0.00984	0.00772	0.00926	0.00539	0.00794	0.00672	0.01246	0.01510	0.00258	0.00066	0.10
0.00001	0.00004	0.00026	0.00000	0.01870	0.01761	0.02122	0.01077	0.01529	0.01297	0.02414	0.02943	0.00507	0.00130	0.16
0.00001	0.00004	0.00025	0.00341	0.00000	0.01354	0.01985	0.01061	0.01397	0.01168	0.02187	0.02666	0.00456	0.00115	0.13
0.00004	0.00029	0.00165	0.02224	0.01330	0.00000	0.28394	0.16608	0.19359	0.12804	0.21335	0.23902	0.03735	0.00864	1.31
0.00040	0.00080	0.00462	0.06208	0.03711	0.04096	0.00000	0.33144	0.47716	0.33415	0.50994	0.56338	0.08925	0.02078	2.47
0.00099	0.00708	0.01270	0.17077	0.10208	0.11268	0.18841	0.00000	2.42794	1.93685	2.77155	2.53919	0.36894	0.08104	10.72
0.00000	0.00003	0.00018	0.00064	0.00038	0.00042	0.00071	0.00049	0.00000	0.00503	0.00878	0.00848	0.00114	0.00025	0.03
0.00001	0.00008	0.00049	0.00654	0.00118	0.00130	0.00217	0.00150	0.00250	0.00000	0.04270	0.04597	0.00568	0.00102	0.11
0.00003	0.00021	0.00128	0.01816	0.01085	0.00351	0.00587	0.00407	0.00677	0.00635	0.00000	0.09637	0.01448	0.00273	0.17
0.00001	0.00005	0.00031	0.00447	0.00281	0.00310	0.00160	0.00111	0.00185	0.00173	0.00345	0.00000	0.00694	0.00146	0.03
0.00015	0.00102	0.00567	0.07628	0.04707	0.05336	0.08923	0.02036	0.03387	0.03174	0.06339	0.08003	0.00000	0.00000	0.50
0.00002	0.00012	0.00055	0.00624	0.00344	0.00363	0.00593	0.00410	0.00695	0.00678	0.01433	0.01872	0.00321	0.00039	0.07
0.00000	0.00107	0.00583	0.07591	0.04449	0.04849	0.08043	0.05547	0.09201	0.08609	0.17185	0.21715	0.03730	0.00916	0.93
0.00005	0.00031	0.00155	0.01868	0.01024	0.01071	0.01766	0.01260	0.02156	0.02020	0.00395	0.00499	0.00086	0.00021	0.12
0.00109	0.00564	0.02733	0.33180	0.18583	0.20104	0.34566	0.25768	0.47818	0.47754	0.95360	1.80099	0.03087	0.00755	3.48
0.00036	0.00200	0.00914	0.10954	0.06183	0.06686	0.11389	0.08346	0.15151	0.15867	0.33697	0.42541	0.00983	0.00241	1.53
0.00001	0.00005	0.00022	0.00228	0.00121	0.00125	0.00203	0.00142	0.00247	0.00249	0.00551	0.00736	0.00126	0.00005	0.03
0.00000	0.00024	0.00117	0.01126	0.00486	0.00453	0.00684	0.00444	0.00724	0.00698	0.01499	0.02110	0.00385	0.00094	0.09
0.00001	0.00000	0.00335	0.03980	0.01866	0.01655	0.02488	0.01634	0.02661	0.02525	0.05279	0.07184	0.01358	0.00351	0.31
0.00006	0.00046	0.00000	0.22664	0.11852	0.10033	0.13180	0.08123	0.12691	0.11526	0.23097	0.30296	0.05566	0.01497	1.51
0.00001	0.00006	0.00032	0.00000	0.03518	0.03369	0.04227	0.02238	0.03238	0.02756	0.05073	0.06018	0.00992	0.00240	0.32
0.00002	0.00012	0.00070	0.00944	0.00000	0.11387	0.16245	0.08124	0.09866	0.07846	0.14057	0.16308	0.02651	0.00638	0.88
0.00006	0.00042	0.00239	0.03218	0.01924	0.00000	0.64341	0.37358	0.42867	0.27752	0.45617	0.50653	0.07867	0.01818	2.84
0.00003	0.00004	0.00024	0.00320	0.00191	0.00211	0.00000	0.00772	0.01156	0.00888	0.01497	0.01746	0.00286	0.00068	0.07
0.00000	0.00000	0.00002	0.00021	0.00013	0.00014	0.00023	0.00000	0.00697	0.00543	0.00735	0.00625	0.00087	0.00018	0.03
0.00003	0.00021	0.00120	0.00242	0.00145	0.00160	0.00268	0.00185	0.00000	0.06423	0.10821	0.09588	0.01160	0.00000	0.29
0.00021	0.00134	0.00708	0.09117	0.05476	0.06378	0.11742	0.08631	0.14362	0.01798	0.03590	0.04532	0.00777	0.00000	0.67
0.00001	0.00000	0.00279	0.03202	0.01393	0.01140	0.01639	0.01035	0.01614	0.01469	0.02960	0.03917	0.00728	0.00000	0.19

PM10
90.27 2011 Tons/Year

Emissions (Tons)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00000	0.00002	0.00015	0.00171	0.00100	0.00112	0.00185	0.00125	0.00210	0.00196	0.00395	0.00491	0.00083	0.00019	0.02
0.00000	0.00028	0.00338	0.02117	0.02093	0.01385	0.03557	0.01539	0.03764	0.02391	0.06703	0.05942	0.01351	0.00251	0.31
0.00000	0.02952	0.14384	2.27702	1.02714	1.53129	1.94762	1.74599	2.23688	2.80044	4.23051	7.25488	0.88853	0.31489	26.43
0.00000	0.00000	0.00014	0.00028	0.00075	0.00018	0.00115	0.00020	0.00111	0.00031	0.00185	0.00077	0.00035	0.00003	0.01
0.00000	0.00526	0.01304	0.39976	0.09309	0.26955	0.17652	0.31369	0.20283	0.52258	0.38403	1.43202	0.08072	0.06439	3.96
0.00000	0.00002	0.00015	0.00143	0.00099	0.00094	0.00179	0.00104	0.00199	0.00162	0.00366	0.00403	0.00075	0.00017	0.02

0.00000	0.01085	0.06328	0.84159	0.45189	0.56535	0.85685	0.63933	0.98403	1.00932	1.86079	2.54998	0.39078	0.10883	10.33
0.00023	0.00343	0.00981	0.22351	0.06872	0.13135	0.12863	0.13426	0.14630	0.19613	0.27427	0.00000	0.00000	0.00000	1.32
0.00020	0.00098	0.00851	0.07665	0.05947	0.05165	0.11136	0.05845	0.12736	0.09196	0.24177	0.00000	0.00000	0.00000	0.83
0.00007	0.00074	0.00283	0.05165	0.01997	0.03184	0.03755	0.03373	0.04284	0.05056	0.08047	0.00000	0.00000	0.00000	0.35
0.00003	0.00018	0.00143	0.01427	0.01004	0.00962	0.01886	0.01089	0.02155	0.01712	0.04068	0.00000	0.00000	0.00000	0.14
0.00000	0.00014	0.00082	0.00926	0.00525	0.00583	0.00951	0.00641	0.01072	0.01001	0.02023	0.02535	0.00433	0.00110	0.11
0.00000	0.00012	0.00098	0.00882	0.00648	0.00578	0.01160	0.00642	0.01275	0.00998	0.02334	0.02482	0.00479	0.00105	0.12
0.00000	0.00675	0.03830	0.52326	0.27351	0.35150	0.51862	0.39792	0.59562	0.62967	1.12639	1.59701	0.23656	0.06834	6.36
0.00000	0.00012	0.00021	0.00829	0.00147	0.00445	0.00276	0.00412	0.00314	0.00588	0.00589	0.01390	0.00123	0.00000	0.05
0.00003	0.00010	0.00120	0.00790	0.00862	0.00533	0.01684	0.00604	0.02032	0.00950	0.04101	0.02384	0.00933	0.00000	0.15
0.00000	0.00002	0.00012	0.00139	0.00081	0.00091	0.00150	0.00102	0.00170	0.00159	0.00320	0.00397	0.00067	0.00015	0.02
0.00002	0.00012	0.00075	0.00902	0.00531	0.00605	0.01004	0.00684	0.01149	0.01075	0.02165	0.02693	0.00454	0.00000	0.11
0.00000	0.00000	0.00000	0.00260	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
0.00006	0.00044	0.00243	0.03356	0.01732	0.02166	0.03279	0.02376	0.03756	0.03688	0.07072	0.09168	0.01481	0.00387	0.39
0.00003	0.00024	0.00150	0.01883	0.01070	0.01274	0.02026	0.01381	0.02322	0.02171	0.04373	0.05438	0.00000	0.00000	0.22
0.00014	0.00083	0.00398	0.03627	0.01857	0.01924	0.02951	0.01899	0.03096	0.02889	0.05981	0.07616	0.01283	0.00118	0.34
0.00000	0.00002	0.00012	0.00147	0.00086	0.00098	0.00162	0.00110	0.00185	0.00173	0.00348	0.00433	0.00073	0.00018	0.02
0.00001	0.00007	0.00044	0.00516	0.00302	0.00343	0.00571	0.00392	0.00669	0.00637	0.01314	0.01656	0.00279	0.00054	0.07
0.00001	0.00009	0.00056	0.00650	0.00377	0.00426	0.00701	0.00476	0.00799	0.00748	0.01512	0.01886	0.00318	0.00072	0.08
0.00010	0.00068	0.00425	0.05000	0.02907	0.03300	0.05504	0.03801	0.06531	0.06291	0.13142	0.16683	0.02810	0.00468	0.67
0.00031	0.00206	0.01313	0.15712	0.09225	0.10473	0.17328	0.11775	0.19759	0.18453	0.37137	0.46169	0.07776	0.01859	1.97
0.00099	0.00667	0.04206	0.49788	0.29057	0.33018	0.54994	0.37835	0.64641	0.61792	1.27917	1.61565	0.27212	0.05055	6.58
0.00000	0.00001	0.00007	0.00084	0.00050	0.00056	0.00093	0.00063	0.00106	0.00100	0.00201	0.00249	0.00042	0.00010	0.01
0.00001	0.00004	0.00025	0.00296	0.00173	0.00197	0.00327	0.00225	0.00383	0.00365	0.00753	0.00949	0.00160	0.00031	0.04
0.00001	0.00007	0.00039	0.00426	0.00241	0.00268	0.00438	0.00295	0.00494	0.00463	0.00943	0.01182	0.00199	0.00041	0.05
0.00000	0.00002	0.00012	0.00148	0.00087	0.00099	0.00165	0.00112	0.00188	0.00176	0.00354	0.00441	0.00074	0.00018	0.02
0.00004	0.00025	0.00162	0.01950	0.01148	0.01306	0.02166	0.01475	0.02479	0.02318	0.04669	0.05809	0.00979	0.00000	0.24
0.00008	0.00045	0.00212	0.01880	0.00944	0.00962	0.01450	0.00917	0.01472	0.01360	0.02808	0.03574	0.00602	0.00025	0.16
0.00015	0.00099	0.00619	0.07299	0.04242	0.04777	0.07854	0.05310	0.08875	0.08263	0.16592	0.20610	0.03471	0.00761	0.89
0.00001	0.00005	0.00029	0.00346	0.00201	0.00226	0.00372	0.00252	0.00422	0.00394	0.00796	0.00991	0.00167	0.00035	0.04
0.00016	0.00107	0.00683	0.08165	0.04787	0.05428	0.08971	0.06090	0.10212	0.09529	0.19164	0.23816	0.04011	0.00944	1.02
0.00006	0.00039	0.00245	0.02891	0.01679	0.01891	0.03110	0.02103	0.03517	0.03277	0.06588	0.08189	0.01379	0.00301	0.35
0.00000	0.00001	0.00008	0.00096	0.00056	0.00062	0.00102	0.00069	0.00114	0.00106	0.00211	0.00261	0.00044	0.00009	0.01
0.00000	0.00003	0.00017	0.00200	0.00116	0.00129	0.00211	0.00142	0.00235	0.00217	0.00433	0.00536	0.00090	0.00018	0.02
0.00003	0.00019	0.00110	0.01204	0.00677	0.00748	0.01212	0.00812	0.01351	0.01261	0.02554	0.03193	0.00538	0.00101	0.14
0.00016	0.00103	0.00636	0.07413	0.04295	0.04835	0.07954	0.05387	0.09033	0.08449	0.17070	0.21281	0.03584	0.00779	0.91
0.00002	0.00013	0.00078	0.00890	0.00512	0.00574	0.00942	0.00637	0.01068	0.01000	0.02027	0.02532	0.00427	0.00090	0.11
0.00003	0.00017	0.00106	0.01248	0.00728	0.00824	0.01360	0.00924	0.01552	0.01453	0.02700	0.03357	0.00565	0.00142	0.15
0.00011	0.00074	0.00455	0.05292	0.03051	0.03417	0.05593	0.03768	0.06284	0.05843	0.11731	0.14575	0.02455	0.00510	0.63
0.00002	0.00010	0.00063	0.00723	0.00415	0.00465	0.00762	0.00515	0.00864	0.00809	0.01642	0.02052	0.00346	0.00067	0.09
0.00000	0.00000	0.00002	0.00022	0.00013	0.00015	0.00024	0.00017	0.00028	0.00026	0.00052	0.00065	0.00011	0.00003	0.00
0.00000	0.00002	0.00012	0.00142	0.00083	0.00095	0.00157	0.00107	0.00179	0.00168	0.00338	0.00421	0.00071	0.00000	0.02
0.00017	0.00148	0.00746	0.11187	0.05326	0.07113	0.10082	0.07705	0.11548	0.11892	0.21744	0.29434	0.04552	0.00000	1.21
0.00002	0.00009	0.00082	0.00692	0.00574	0.00467	0.01081	0.00528	0.01246	0.00832	0.02389	0.02085	0.00515	0.00000	0.11 PM10

67.20 2020 Tons/Year

Emissions (Tons)

2035

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00001	0.00008	0.00030	0.00217	0.00122	0.00182	0.00319	0.00248	0.00278	0.00310	0.00474	0.00532	0.00061	0.00020	0.03
0.00000	0.00149	0.00538	0.03876	0.02167	0.03233	0.05651	0.04401	0.04932	0.05489	0.08387	0.09420	0.01077	0.00362	0.50
0.00000	0.11281	0.39901	2.84640	1.58242	2.35436	4.10852	3.19850	3.58460	3.99301	6.10957	6.87311	0.78715	0.26517	36.21
0.00000	0.00001	0.00002	0.00016	0.00009	0.00012	0.00022	0.00017	0.00019	0.00021	0.00031	0.00035	0.00004	0.00001	0.00
0.00000	0.00892	0.03154	0.22503	0.12511	0.18613	0.32481	0.25287	0.28339	0.31568	0.48300	0.54336	0.06223	0.02096	2.86
0.00000	0.00013	0.00047	0.00332	0.00183	0.00271	0.00471	0.00365	0.00407	0.00452	0.00688	0.00772	0.00088	0.00030	0.04
0.00000	0.05507	0.19496	1.39162	0.77395	1.15178	2.01024	1.56513	1.75416	1.95405	2.98980	3.36331	0.38516	0.12974	17.72
0.00062	0.00447	0.01531	0.10604	0.05758	0.08424	0.14524	0.11211	0.12494	0.13875	0.21218	0.00000	0.00000	0.00000	1.00
0.00024	0.00181	0.00649	0.04667	0.02607	0.03891	0.06804	0.05303	0.05947	0.06627	0.10138	0.00000	0.00000	0.00000	0.47
0.00024	0.00184	0.00656	0.04668	0.02580	0.03821	0.06640	0.05150	0.05750	0.06383	0.09733	0.00000	0.00000	0.00000	0.46
0.00008	0.00064	0.00229	0.01648	0.00921	0.01376	0.02406	0.01876	0.02104	0.02344	0.03587	0.00000	0.00000	0.00000	0.17
0.00000	0.00066	0.00213	0.01432	0.00764	0.01107	0.01897	0.01461	0.01627	0.01810	0.02776	0.03144	0.00364	0.00124	0.17
0.00000	0.00068	0.00246	0.01772	0.00990	0.01476	0.02579	0.02008	0.02249	0.02503	0.03823	0.04293	0.00491	0.00165	0.23
0.00000	0.02558	0.09037	0.64425	0.35801	0.53251	0.92910	0.72322	0.81047	0.90278	1.38132	1.55400	0.17799	0.05996	8.19
0.00002	0.00014	0.00048	0.00321	0.00174	0.00254	0.00439	0.00340	0.00382	0.00430	0.00668	0.00768	0.00090	0.00000	0.04

0.00004	0.00032	0.00115	0.00829	0.00464	0.00694	0.01214	0.00947	0.01063	0.01184	0.01811	0.02036	0.00233	0.00000	0.11
0.00001	0.00008	0.00030	0.00218	0.00122	0.00183	0.00319	0.00249	0.00279	0.00310	0.00473	0.00531	0.00061	0.00020	0.03
0.00008	0.00063	0.00226	0.01629	0.00912	0.01364	0.02387	0.01861	0.02088	0.02327	0.03560	0.04002	0.00458	0.00000	0.21
0.00000	0.00000	0.00000	0.00179	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
0.00020	0.00156	0.00568	0.04124	0.02317	0.03471	0.06082	0.04747	0.05327	0.05937	0.09081	0.10204	0.01158	0.00389	0.54
0.00013	0.00104	0.00378	0.02747	0.01544	0.02313	0.04053	0.03164	0.03551	0.03958	0.06054	0.06802	0.00000	0.00000	0.35
0.00007	0.00052	0.00188	0.01364	0.00764	0.01143	0.01999	0.01558	0.01746	0.01943	0.02969	0.03334	0.00381	0.00125	0.18
0.00001	0.00010	0.00036	0.00257	0.00144	0.00216	0.00378	0.00295	0.00330	0.00368	0.00562	0.00632	0.00072	0.00024	0.03
0.00004	0.00030	0.00109	0.00789	0.00443	0.00662	0.01159	0.00904	0.01013	0.01128	0.01724	0.01936	0.00221	0.00073	0.10
0.00007	0.00057	0.00207	0.01502	0.00842	0.01259	0.02204	0.01718	0.01925	0.02143	0.03275	0.03678	0.00420	0.00139	0.19
0.00048	0.00372	0.01350	0.09776	0.05484	0.08202	0.14355	0.11191	0.12546	0.13969	0.21346	0.23973	0.02739	0.00906	1.26
0.00184	0.01439	0.05220	0.37806	0.21206	0.31715	0.55503	0.43267	0.48504	0.54000	0.82515	0.92668	0.10588	0.03501	4.88
0.00460	0.03593	0.13040	0.94457	0.52991	0.79261	1.38728	1.08156	1.21256	1.35006	2.06307	2.31702	0.26473	0.08762	12.20
0.00001	0.00006	0.00020	0.00147	0.00083	0.00124	0.00217	0.00169	0.00189	0.00211	0.00322	0.00362	0.00041	0.00014	0.02
0.00002	0.00017	0.00062	0.00452	0.00254	0.00379	0.00664	0.00518	0.00581	0.00646	0.00988	0.01110	0.00127	0.00042	0.06
0.00001	0.00010	0.00035	0.00248	0.00138	0.00205	0.00358	0.00279	0.00312	0.00349	0.00535	0.00602	0.00069	0.00022	0.03
0.00001	0.00009	0.00033	0.00242	0.00136	0.00204	0.00357	0.00278	0.00312	0.00347	0.00531	0.00597	0.00068	0.00023	0.03
0.00015	0.00118	0.00424	0.03061	0.01715	0.02563	0.04486	0.03499	0.03925	0.04374	0.06691	0.07521	0.00860	0.00000	0.39
0.00002	0.00012	0.00042	0.00303	0.00169	0.00252	0.00439	0.00341	0.00381	0.00424	0.00646	0.00724	0.00083	0.00026	0.04
0.00058	0.00450	0.01621	0.11679	0.06525	0.09727	0.16977	0.13204	0.14772	0.16416	0.25043	0.28103	0.03211	0.01032	1.49
0.00004	0.00030	0.00106	0.00766	0.00428	0.00638	0.01114	0.00866	0.00969	0.01076	0.01642	0.01843	0.00211	0.00068	0.10
0.00071	0.00550	0.01984	0.14313	0.08004	0.11942	0.20857	0.16231	0.18168	0.20199	0.30826	0.34600	0.03953	0.01280	1.83
0.00023	0.00178	0.00640	0.04614	0.02577	0.03842	0.06706	0.05216	0.05835	0.06484	0.09892	0.11101	0.01268	0.00408	0.59
0.00001	0.00006	0.00021	0.00153	0.00085	0.00127	0.00222	0.00173	0.00193	0.00215	0.00327	0.00367	0.00042	0.00013	0.02
0.00002	0.00017	0.00062	0.00446	0.00249	0.00371	0.00647	0.00503	0.00562	0.00625	0.00953	0.01069	0.00122	0.00039	0.06
0.00007	0.00055	0.00190	0.01332	0.00736	0.01090	0.01894	0.01470	0.01646	0.01833	0.02810	0.03164	0.00361	0.00110	0.17
0.00078	0.00605	0.02185	0.15768	0.08821	0.13165	0.22998	0.17901	0.20041	0.22285	0.34016	0.38183	0.04363	0.01416	2.02
0.00010	0.00075	0.00270	0.01951	0.01091	0.01628	0.02844	0.02213	0.02478	0.02755	0.04206	0.04721	0.00539	0.00175	0.25
0.00011	0.00087	0.00311	0.02233	0.01246	0.01856	0.03237	0.02518	0.02817	0.03132	0.04523	0.05082	0.00581	0.00195	0.28
0.00040	0.00308	0.01109	0.07989	0.04462	0.06651	0.11606	0.09025	0.10095	0.11217	0.17110	0.19199	0.02194	0.00704	1.02
0.00007	0.00057	0.00206	0.01484	0.00829	0.01235	0.02154	0.01675	0.01873	0.02081	0.03175	0.03562	0.00407	0.00130	0.19
0.00000	0.00001	0.00005	0.00036	0.00020	0.00030	0.00053	0.00041	0.00046	0.00051	0.00078	0.00088	0.00010	0.00003	0.00
0.00001	0.00009	0.00033	0.00238	0.00133	0.00198	0.00347	0.00270	0.00303	0.00338	0.00517	0.00581	0.00067	0.00000	0.03
0.00041	0.00315	0.01132	0.08136	0.04554	0.06807	0.11911	0.09288	0.10420	0.11617	0.17785	0.20016	0.02292	0.00000	1.04
0.00006	0.00044	0.00160	0.01155	0.00647	0.00967	0.01693	0.01320	0.01481	0.01650	0.02525	0.02838	0.00325	0.00000	0.15 PM10

97.95 2035 Tons/Year

Mobile Emissions Calculations – PM10 (daily)

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

PM10 Emissions (daily) All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														ALL SPEEDS
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	97.69	16.74	4.10	413
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	83.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,493
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,242	
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,363
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,469
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	
Year	Vehicle Type	EMFAC2011 Vehicle Type		5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.48%	185.03	1262.24	8159.01	98660.05	58323.61	66549.64	110538.57	75396.98	126695.73	118496.99	238667.19	296763.34	49982.34	12588.39	1,262,209
2020	LDT1 - DSL		0.01%	0.03	0.18	1.17	14.17	8.38	9.56	15.88	10.82	18.20	17.02	34.28	42.62	7.18	1.81	181
2020	LDT1 - GAS		4.25%	16.57	113.02	730.56	8834.04	5222.31	5958.86	9897.64	6745.68	11344.35	10610.24	21370.30	26572.23	4475.43	1127.17	113,018
2020	LDT2 - DSL		0.04%	0.14	0.97	6.24	75.45	44.60	50.89	84.53	57.61	96.89	90.62	182.52	226.95	38.22	9.63	965
2020	LDT2 - GAS		20.91%	81.50	555.94	3593.57	43453.99	25688.15	29311.23	48685.79	33181.54	55802.08	52191.01	105118.97	130706.93	22014.31	5544.45	555,929
2020	LHD1 - DSL		1.58%	6.17	42.11	272.17	3291.07	1945.54	2219.94	3687.31	2513.07	4226.28	395					

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6TS - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.44	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	268827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check		194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86	

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	10.79	16.51	18.55	2.12	0.71	97	
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	8909.41	100808.50	112360.01	171867.32	193108.90	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	18,340
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,906
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9968.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055
2035																		

VMT check | 712.68 | 6123.505 | 22675.305 | 154298.405 | 81264.315 | 125706.57 | 217971.84 | 185601.78 | 212234.53 | 242968.585 | 374146.69 | 422137.835 | 48270.03 | 16232.93

Emissions Summary - BAU

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2011	All Other Buses - DSL	PM10-daily	1.732419531	1.463953067	1.02933498	0.729486796	0.609640379	0.540180545	0.49056031	0.459250627	0.447788132	0.455726637	0.483155686	0.50400676	0.50400676	0.142340041	
2011	LDA - DSL	PM10-daily	0	0.358815444	0.264106424	0.204946575	0.167090572	0.14266697	0.126412006	0.116133299	0.110006992	0.107134654	0.107117123	0.109598875	0.116096109	0.058085669	
2011	LDA - GAS	PM10-daily	0.133644405	0.062363655	0.056283351	0.05258778	0.050359823	0.048976279	0.048095954	0.047541722	0.04719609	0.047002822	0.046930859	0.046696929	0.047124675	0.047422457	
2011	LD1 - DSL	PM10-daily	0	0.590377829	0.424926199	0.321889583	0.256120765	0.213422582	0.185595709	0.167807158	0.157240266	0.152336666	0.152406218	0.157461997	0.168235811		
2011	LD1 - GAS	PM10-daily	0.168235811	0.186323278	0.1989934205	0	0.075123384	0.064719343	0.058560209	0.054784948	0.052403958	0.050873191	0.04988508	0.049262825	0.048905605	0.048760063	
2011	LD2 - DSL	PM10-daily	0.048806335	0.049053226	0.049540838	0.049898477	0	0.106573769	0.755640521	0.562695136	0.439626708	0.359773663	0.307739279	0.274490783	0.254759782	0.245631601	
2011	LD2 - GAS	PM10-daily	0.245816666	0.255432371	0.275563744	0.309477667	0.3331231	0	0.059061783	0.053963738	0.051000826	0.049215726	0.048107497	0.047405014	0.046957292	0.046678727	
2011	LHD1 - DSL	PM10-daily	0.046521105	0.046459206	0.046483799	0.046599233	0.046824702	0.046989969	0	0.235513963	0.191455799	0.163834585	0.146107402	0	0	0	
2011	LHD1 - GAS	PM10-daily	0.134550251	0.127011102	0.122175615	0.119282196	0.117909321	0.117868997	0.119161595	0	0.096750024	0.092309201	0.089746663	0.088214207	0.087270314	0.086677374	
2011	LHD2 - DSL	PM10-daily	0.088214207	0.087270314	0.086677374	0.08630395	0.086076144	0.085952895	0.085913382	0.08595103	0	0.231575902	0.192903194	0.168524138	0.152807778	0.142526651	
2011	LHD2 - GAS	PM10-daily	0.168524138	0.152807778	0.142526651	0.135814706	0.13498263	0.12890039	0.127646305	0.127567914	0.128663268	0	0.107082526	0.103529628	0.101474789	0.100243388	
2011	MCY - GAS	PM10-daily	0.103529628	0.101474789	0.100243388	0.099483575	0.099005647	0.098704496	0.098520967	0.098422192	0.09839157	0.098424002	0	0.024791856	0.021965044	0.020230127	
2011	MDV - DSL	PM10-daily	0.019135718	0.018416338	0.017975457	0.017686443	0.017511372	0.017429169	0.017426009	0.017501327	0.017665841	0.017944158	0.018138873	0	0.266907374	0.200654297	
2011	MDV - GAS	PM10-daily	0.159016037	0.132239304	0.114755661	0.103346479	0.096020021	0.091624587	0.089522653	0.089429165	0.091342945	0.09559378	0.010280639	0.107835582	0	0.058085932	
2011	MH - DSL	PM10-daily	0.053336998	0.050576284	0.048912526	0.047897373	0.047224017	0.046806099	0.046545736	0.046379952	0.046339168	0.046306662	0.046466307	0.046673703	0.046582528	0.046516888	
2011	MH - GAS	PM10-daily	0	0.737978876	0.64594151	0.49555454	0.390221382	0.347306911	0.32362813	0.308259097	0.301174497	0.302360036	0.311806265	0.329598603	0.355501688	0.389773154	
2011	Motor Coach - DSL	PM10-daily	0	0.164353353	0.154956618	0.142597467	0.149854867	0.148152381	0.147065375	0.146376353	0.145961244	0.145751225	0.14571317	0.145840966	0.146152341	0.146152341	
2011	OBUS - GAS	PM10-daily	1.086907018	0.754737811	0.624071236	0.551643495	0.503163577	0.478738874	0.47875672	0.50387438	0.55501408	0.58872949	0.58872949	0.142340041	0.142340041	0.142340041	
2011	PTO - DSL	PM10-daily	0	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	SBUS - DSL	PM10-daily	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	SBUS - GAS	PM10-daily	0	2.36719005	2.099587499	1.665800165	1.365571389	1.245054933	1.174381378	1.122286017	1.088783812	1.073945311	1.077845228	1.100666658	0	0	
2011	T6 Ag - DSL	PM10-daily	1.118902874	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	0.756800217	
2011	T6 CAIRP heavy - DSL	PM10-daily	0.758731344	0.759259476	0	2.467679709	2.095542706	1.490142913	1.068262998	0.89688279	0.794806318	0.717812001	0.659252338	0.639251213	0.637979769	0.661834528	
2011	T6 CAIRP small - DSL	PM10-daily	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	T6 instate construction heavy - DSL	PM10-daily	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	T6 instate construction small - DSL	PM10-daily	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	T6 instate heavy - DSL	PM10-daily	0.5054706	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	0.142340041	
2011	T6 instate small - DSL	PM10-daily	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	0.455483003	
2011	T6 OOS heavy - DSL	PM10-daily	0.510371907	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	0.533393638	
2011	T6 OOS small - DSL	PM10-daily	0.417110746	0.451372604	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	0.473162165	
2011	T6 Public - DSL	PM10-daily	0.408157634	0.426814539	0.462116727	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	0.485784266	
2011	T6 utility - DSL	PM10-daily	0.369472676	0.380468345	0.403599602	0.438936905	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	0.46103522	
2011	T6TS - GAS	PM10-daily	0.445898394	0.420410294	0.40772858	0.407963854	0.421149344	0.432529054	0.432529054	0.432529054	0.432529054	0.432529054	0.432529054	0.432529054	0.432529054	0.432529054	
2011	T7 Ag - DSL	PM10-daily	0.458865161	0.412330001	0.336867801	0.283066448	0.261759725	0.250440175	0.244468361	0.243806656	0.248436901	0.258353587	0.273560468	0.283118563	0.283118563	0.142340041	
2011	T7 CAIRP - DSL	PM10-daily	0	0.166793909	0.158515598	0.153608016	0.15060115	0.148711925	0.14750742	0.146744409	0.146284152	0.146049676	0.146003719	0.146138582	0.146173938	0.147061744	
2011	T7 CAIRP construction - DSL	PM10-daily	1.674631257	1.397633853	1.2301878	1.00524202	1.008894251	0.995553136	0.942768487	0.907799596	0.917757277	0.917757277	0.917757277	0.917757277	0.917757277	0.917757277	
2011	T7 NOOS - DSL	PM10-daily	0.984063929	0.709971332	0.599642749	0.541462595	0.507319725	0.492070327	0.511265216	0.549766026	0.613108359	0.653366452	0.653366452	0.653366452	0.653366452	0.653366452	
2011	T7 NOOS - DSL	PM10-daily	1.01345542	0.790396774	0.629404127	0.561160345	0.529886872	0.519113066	0.528807065	0.559016027	0.609854857	0.681500619	0.724785307	0.724785307	0.724785307	0.724785307	
2011	T7 other port - DSL	PM10-daily	0.970477051	0.850955221	0.656038566	0.5175866	0.459181927	0.430633754	0.417882587	0.420838878	0.439520177	0.474013525	0.524469958	0.555363332	0.555363332	0.555363332	
2011	T7 POAK - DSL	PM10-daily	0	1.62367552	1.378896117	0.984063929	0.709971332	0.599642749	0.541462595	0.507319725	0.492070327	0.511265216	0.549766026	0.613108359	0.653366452	0.653366452	
2011	T7 Public - DSL	PM10-daily	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	
2011	T7 Single - DSL	PM10-daily	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	
2011	T7 single construction - DSL	PM10-daily	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	
2011	T7 SWCV - DSL	PM10-daily	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	0.097740028	
2011	T7 tractor - DSL	PM10-d															

2020	T6 instate construction small - DSL	PM10-daily	0.209577122	0.205877157	0.199607108	0.194100085	0.190888778	0.189935559	0.190731216	0.193243954	0.197453994	0.2033482	0.210917415	0.215327917	0.215327917	0.142340041
2020	T6 instate heavy - DSL	PM10-daily	0.159109718	0.157378211	0.155063098	0.153495093	0.152451032	0.151682923	0.151091685	0.150642679	0.150315401	0.150095972	0.149974692	0.149485881	0.149485881	0.142340041
2020	T6 instate small - DSL	PM10-daily	0.189845867	0.187187871	0.182753245	0.178890264	0.176604673	0.175879006	0.176362484	0.178029278	0.180863308	0.184853883	0.18999353	0.1929925	0.1929925	0.142340041
2020	T6 OOS heavy - DSL	PM10-daily	0.156916552	0.155371564	0.153237736	0.151775386	0.150863898	0.150225117	0.149755743	0.149429592	0.149231666	0.149150197	0.149178074	0.149231262	0.149231262	0.142340041
2020	T6 OOS small - DSL	PM10-daily	0.182850186	0.180545311	0.176735183	0.173439301	0.171478113	0.170829688	0.171197624	0.172558303	0.174897025	0.178204012	0.182472433	0.184965576	0.184965576	0.142340041
2020	T6 Public - DSL	PM10-daily	0.248917395	0.232405178	0.205949738	0.187593591	0.179872513	0.175319729	0.172071245	0.170106396	0.169408419	0.169968994	0.17178393	0.173153698	0.173153698	0.142340041
2020	T6 utility - DSL	PM10-daily	0.146276875	0.145881389	0.145383137	0.145054947	0.144808188	0.144640487	0.144451145	0.144311566	0.144189484	0.144080996	0.143983376	0.143983376	0.143983376	0.142340041
2020	T6TS - GAS	PM10-daily	0.150486574	0.147517437	0.145811403	0.144795155	0.144171309	0.143780396	0.143534452	0.143384124	0.143301983	0.143274021	0.143295588	0.143370075	0.143370075	0.142340041
2020	T7 Ag - DSL	PM10-daily	0.208440565	0.207145279	0.209109708	0.209450188	0.2084301758	0.2078114966	0.20651399101	0.2064254764	0.205698969	0.20570114259	0.2054339152	0.205831997	0.205831997	0.097740028
2020	T7 CAIRP - DSL	PM10-daily	0.130240411	0.126895009	0.12257149	0.119596088	0.117569242	0.116054408	0.114868801	0.113944747	0.113240117	0.112726899	0.11285517	0.112274665	0.112274665	0.097740028
2020	T7 CAIRP construction - DSL	PM10-daily	0.136434099	0.132597978	0.127366697	0.123746237	0.121390822	0.119751972	0.118584643	0.117818929	0.117411618	0.117334351	0.117567749	0.117794667	0.117794667	0.097740028
2020	T7 NNOOS - DSL	PM10-daily	0.112336876	0.110931005	0.109121652	0.107900034	0.107011068	0.106336757	0.105809745	0.105397987	0.105081531	0.104847113	0.104685461	0.104629745	0.104629745	0.097740028
2020	T7 NNOOS - DSL	PM10-daily	0.131219062	0.127745364	0.123083703	0.119923671	0.11783651	0.116308304	0.115134595	0.114249215	0.113610974	0.113192481	0.112974597	0.112936387	0.112936387	0.097740028
2020	T7 other port - DSL	PM10-daily	0.143577643	0.138990404	0.133202179	0.129831775	0.126533242	0.124267832	0.122390928	0.120793515	0.119407728	0.118188441	0.117104117	0.116605159	0.116605159	0.097740028
2020	T7 POAK - DSL	PM10-daily	0.151983775	0.146557839	0.13971002	0.135189112	0.1318119	0.129140114	0.126921964	0.125035649	0.123400925	0.121964433	0.120688885	0.120102706	0.120102706	0.097740028
2020	T7 Public - DSL	PM10-daily	0.20152961	0.187993155	0.164160251	0.148037706	0.140086356	0.13639784	0.133012331	0.13066908	0.129350427	0.12905206	0.129779566	0.13049534	0.13049534	0.097740028
2020	T7 Single - DSL	PM10-daily	0.133916552	0.1329539429	0.123128962	0.118713049	0.116351474	0.114802859	0.113696718	0.112986695	0.112645516	0.112655447	0.113007551	0.113302264	0.113302264	0.097740028
2020	T7 Single construction - DSL	PM10-daily	0.14626655	0.13966857	0.12975717	0.12296823	0.11966883	0.117595719	0.11613665	0.115244989	0.114896168	0.115079412	0.115793636	0.116324147	0.116324147	0.097740028
2020	T7 SWCV - DSL	PM10-daily	0.119348331	0.116543205	0.112280079	0.109321463	0.107875362	0.106971539	0.106339444	0.10595961	0.105820897	0.105917124	0.1097740028	0.1097740028	0.097740028	0.097740028
2020	T7 tractor - DSL	PM10-daily	0.147833504	0.142238887	0.134577534	0.129412463	0.126206626	0.123878853	0.122068717	0.12068135	0.119661091	0.118970268	0.118584404	0.118494934	0.118494934	0.097740028
2020	T7 tractor construction - DSL	PM10-daily	0.157730526	0.150856087	0.140892367	0.133991297	0.130168981	0.127686834	0.125983266	0.124977138	0.12462033	0.124838316	0.125750762	0.126392956	0.126392956	0.097740028
2020	T7 utility - DSL	PM10-daily	0.103773582	0.103167466	0.102403849	0.103909267	0.101525186	0.101225209	0.100975486	0.100761569	0.100574466	0.100408199	0.100258587	0.100189046	0.100189046	0.097740028
2020	T7TS - GAS	PM10-daily	0.087753455	0.085622442	0.08436991	0.083623258	0.083161414	0.082979385	0.08286687	0.082575187	0.082515516	0.082497898	0.082519399	0.082593276	0.082593276	0.097740028
2020	UBUS - DSL	PM10-daily	0.061670716	0.101939369	0.85893856	1.064638446	0.857337975	1.003492888	0.856367616	0.960260381	0.855762992	0.942232884	0.855379961	0.931226019	0.855379961	0.097740028
2020	UBUS - GAS	PM10-daily	0.211194251	0.143511017	0.205075435	0.143434321	0.203173663	0.1434415104	0.200090045	0.143450157	0.201210616	0.14354468	0.204768402	0.143713604	0.210754435	0.097740028
			Emission Factor - BAU (g/mile)													
Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	10 MPH	15 MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH
2025	All Other Buses - DSL	PM10-daily	0.149045202	0.148371617	0.147523001	0.146964032	0.146546532	0.146213165	0.145935644	0.145697915	0.145489986	0.145305211	0.145138946	0.145061664	0.145061664	0.142340041
2025	LDA - DSL	PM10-daily	0.07413977	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337	0.074020337
2025	LDA - GAS	PM10-daily	0.049148193	0.047670311	0.046795534	0.04626147	0.04592815	0.045718742	0.045590269	0.045518829	0.04549207	0.045505553	0.045615113	0.045669479	0.045748558	0.045748558
2025	LD1 - DSL	PM10-daily	0.059344105	0.056575131	0.054424437	0.052835879	0.051771874	0.051027998	0.050502617	0.050138874	0.049906348	0.049792933	0.049883943	0.05018419	0.050393235	0.050393235
2025	LD1 - GAS	PM10-daily	0.049145503	0.047671313	0.046797994	0.046264376	0.045931051	0.045721446	0.045592698	0.045520946	0.045493841	0.045506925	0.04556238	0.045669655	0.045748274	0.045748274
2025	LD2 - DSL	PM10-daily	0.053254473	0.052165518	0.051077631	0.050174269	0.049556098	0.049095635	0.048736528	0.048446953	0.048207448	0.048005381	0.047915773	0.047916292	0.047916653	0.047916653
2025	LD2 - GAS	PM10-daily	0.048996781	0.047569366	0.046724927	0.046209243	0.045887409	0.045685226	0.045561194	0.045492231	0.045466411	0.045497945	0.045533507	0.045637788	0.045714166	0.045714166
2025	LHD1 - DSL	PM10-daily	0.133119903	0.122953999	0.115471812	0.110091193	0.106294599	0.103774995	0.102063804	0.100915563	0.100193473	0.099828683	0.099802488	0.099802488	0.099802488	0.099802488
2025	LHD1 - GAS	PM10-daily	0.091918017	0.089145159	0.087563181	0.086627036	0.086055658	0.085699147	0.085475235	0.085337917	0.085261613	0.085231109	0.085247668	0.085247668	0.085247668	0.085247668
2025	LHD2 - DSL	PM10-daily	0.121510604	0.119398969	0.116704343	0.114259728	0.112309066	0.110983487	0.110015653	0.10928286	0.108716029	0.108274663	0.107935549	0.107935549	0.107935549	0.107935549
2025	LHD2 - GAS	PM10-daily	0.104679335	0.101898574	0.100312086	0.999373273	0.998800267	0.998424739	0.998218189	0.99808408	0.998003958	0.997975373	0.997989974	0.997989974	0.997989974	0.997989974
2025	MCV - DSL	PM10-daily	0.024926694	0.021559488	0.019914075	0.018896124	0.018254586	0.017850003	0.017603851	0.017472386	0.017433706	0.017481368	0.01762259	0.017880135	0.01806529	0.01806529
2025	MDV - DSL	PM10-daily	0.047682084	0.047292451	0.046912906	0.046600851	0.046387675	0.046229651	0.046107275	0.046009539	0.045929779	0.045863792	0.045836358	0.045841654	0.045845068	0.045845068
2025	MDV - GAS	PM10-daily	0.049318105	0.047786117	0.046878535	0.046323966	0.045977546	0.045759699	0.045625883	0.045551302	0.045523122	0.045536706	0.045594325	0.04570791	0.045877485	0.045877485
2025	MH - DSL	PM10-daily	0.242072295	0.230075063	0.209842757	0.194626658	0.187023062	0.18268765	0.180009862	0.178813599	0.178994099	0.180506448	0.183295189	0.18760331	0.193351851	0.193351851
2025	MH - GAS	PM10-daily	0.149891529	0.147091432	0.145499901	0.144548553	0.143971558	0.143611542	0.143385429	0.143246761	0.143169707	0.143140923	0.143155624	0.143216234	0.143333093	0.143333093
2025	Motor Coach - DSL	PM10-daily	0.151801118	0.15085068	0.149653271	0.148864557	0.148275459	0.147805073	0.147413487	0.147078049	0.146784658	0.146523938	0.146289336	0.146182029	0.146180229	0.142340041
2025	OBUS - GAS	PM10-daily	0.15003486	0.147186103	0.145553754	0.144590465	0.14400252	0.143635672	0.143405268	0.143185452	0.143156122	0.143171102	0.143232868	0.143351939	0.143351939	0.143351939
2025	PTO - DSL	PM10-daily				0.005940994										
2025	SBUS - DSL	PM10-daily	0.766684804	0.765765891	0.764570155	0.763749545</										

PM10 Emissions (daily) All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
0.00027	0.00162	0.00655	0.06245	0.03120	0.03051	0.04629	0.03007	0.04879	0.04653	0.09852	0.12974	0.02224	0.00154	0.56	
0.00000	0.00748	0.03158	0.32943	0.16055	0.15110	0.22418	0.14278	0.22505	0.20539	0.41008	0.53145	0.09616	0.02562	2.54	
0.05704	0.00000	1.10128	13.30453	7.43080	7.85493	12.77322	8.69663	14.30321	13.30663	26.46312	33.35724	5.72157	1.40442	145.77	
0.00001	0.00005	0.00000	0.05139	0.02211	0.01849	0.02460	0.01421	0.02056	0.01742	0.03260	0.03987	0.00684	0.00173	0.25	
0.00972	0.07730	0.47363	0.00000	1.43741	1.36694	2.06811	1.34130	2.13490	1.94226	3.80315	4.74140	0.80671	0.19677	20.40	
0.00000	0.00000	0.00002	0.00027	0.00000	0.00384	0.00455	0.00235	0.00305	0.00234	0.00400	0.00451	0.00072	0.00017	0.03	
0.04410	0.32882	2.03642	30.74853	19.78477	0.00000	6.47436	4.10098	6.44928	5.83232	11.38428	14.16222	2.40425	0.58471	104.34	
0.00122	0.00878	0.05040	0.67930	0.40803	0.45199	0.00000	2.62598	3.55216	2.84861	5.07288	0.00000	0.00000	0.00000	15.70	
0.00318	0.02158	0.11912	1.56358	0.92390	1.01949	1.72336	0.00000	1.61411	1.44322	2.80195	0.00000	0.00000	0.00000	11.23	
0.00045	0.00321	0.01829	0.24478	0.14593	0.16086	0.26884	0.18646	0.00000	0.78339	1.30311	0.00000	0.00000	0.00000	3.12	
0.00042	0.00275	0.01473	0.18877	0.10926	0.11822	0.19575	0.13562	0.22761	0.00000	0.35450	0.00000	0.00000	0.00000	1.35	
0.00076	0.00534	0.03026	0.40378	0.24021	0.26434	0.44118	0.30555	0.50827	0.47647	0.00000	0.30256	0.04594	0.01035	3.04	
0.00001	0.00007	0.00038	0.00504	0.00298	0.00328	0.00548	0.00382	0.00641	0.00610	0.01232	0.00000	0.03922	0.00721	0.09	
0.02562	0.15294	0.76162	9.22160	5.12158	5.39463	8.81331	6.10352	10.37349	10.17379	21.84890	28.93244	0.00000	0.65345	107.58	
0.00002	0.00011	0.00059	0.00781	0.00460	0.00504	0.00837	0.00579	0.00962	0.00901	0.01804	0.02288	0.00393	0.00000	0.10	
0.00000	0.00583	0.02928	0.30201	0.14216	0.13967	0.21761	0.14369	0.23361	0.21979	0.45260	0.60383	0.11165	0.00000	2.60	
0.00003	0.00000	0.00056	0.00718	0.00417	0.00453	0.00748	0.00515	0.00853	0.00797	0.01589	0.02005	0.00344	0.00084	0.09	
0.00077	0.00382	0.01812	0.21536	0.11742	0.12332	0.20621	0.15046	0.27577	0.27413	0.54741	0.16708	0.02864	0.00000	2.13	
0.00000	0.00000	0.00000	0.07130	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.07	
0.00006	0.00045	0.00000	0.03690	0.02164	0.02361	0.03922	0.02707	0.04493	0.04203	0.08384	0.10579	0.01813	0.00444	0.45	
0.00000	0.00542	0.02756	0.29401	0.14408	0.14500	0.22869	0.15151	0.24458	0.22608	0.45311	0.58414	0.00000	0.00000	2.50	
0.00102	0.00494	0.02834	0.38100	0.22775	0.25140	0.42035	0.00000	0.50546	0.46650	0.92297	1.15851	0.19782	0.04828	4.61	
0.00008	0.00054	0.00565	0.13575	0.06891	0.05409	0.06484	0.03774	0.05565	0.04710	0.08725	0.10573	0.01808	0.00459	0.68	
0.00004	0.00031	0.00179	0.00000	0.13101	0.12333	0.14861	0.07541	0.10708	0.09085	0.16907	0.20617	0.03552	0.00909	1.10	
0.00004	0.00031	0.00177	0.02386	0.00000	0.09483	0.13901	0.07434	0.09789	0.08178	0.15320	0.18676	0.03191	0.00804	0.89	
0.00028	0.00202	0.01159	0.15581	0.09314	0.00000	1.98885	1.16329	1.35601	0.89684	1.49440	1.67421	0.26160	0.06051	9.16	
0.00279	0.00564	0.03234	0.43486	0.25994	0.28694	0.00000	2.32160	3.34223	2.34052	3.57188	3.94621	0.62515	0.14553	17.32	
0.00691	0.04961	0.08897	1.19613	0.71501	0.78926	1.31970	0.00000	17.00644	13.56660	19.41324	17.78573	2.58420	0.56762	75.09	
0.00003	0.00022	0.00125	0.00449	0.00268	0.00296	0.00495	0.00343	0.00000	0.03523	0.06149	0.05942	0.00799	0.00173	0.19	
0.00007	0.00057	0.00341	0.04578	0.00823	0.00909	0.01520	0.01053	0.01753	0.00000	0.29909	0.32200	0.03977	0.00712	0.78	
0.00019	0.00145	0.00900	0.12719	0.07603	0.02459	0.04112	0.02851	0.04743	0.04445	0.00000	0.67504	0.10143	0.01914	1.20	
0.00005	0.00035	0.00214	0.03132	0.01967	0.02171	0.01121	0.00777	0.01293	0.01212	0.02419	0.00000	0.04864	0.01023	0.20	
0.00105	0.00714	0.03972	0.53431	0.32972	0.37379	0.62500	0.14259	0.23727	0.22235	0.44401	0.56055	0.00000	0.00000	3.52	
0.00013	0.00082	0.00386	0.04372	0.02410	0.02546	0.04155	0.02873	0.04871	0.04747	0.10037	0.13114	0.02248	0.00276	0.52	
0.00000	0.00748	0.04081	0.53172	0.31162	0.33967	0.56335	0.38853	0.64447	0.60299	1.20373	1.52105	0.26128	0.06418	6.48	
0.00036	0.00215	0.01088	0.13086	0.07171	0.07500	0.12368	0.08829	0.15099	0.14150	0.02768	0.03494	0.00599	0.00147	0.87	
0.00763	0.03950	0.19144	2.32412	1.30167	1.40820	2.42120	1.80492	3.34939	3.34494	6.67950	1.26146	0.21619	0.05289	24.40	
0.00250	0.01401	0.06401	0.76728	0.43309	0.46834	0.79773	0.58463	1.06128	1.11141	2.36032	2.97979	0.06887	0.01685	10.73	
0.00005	0.00034	0.00151	0.01599	0.00848	0.00878	0.01424	0.00994	0.01728	0.01746	0.03859	0.05158	0.00884	0.00038	0.19	
0.00000	0.00169	0.00822	0.07889	0.03402	0.03172	0.04789	0.03111	0.05073	0.04889	0.10498	0.14780	0.02699	0.00660	0.62	
0.00009	0.00000	0.02346	0.27879	0.13073	0.11596	0.17427	0.11447	0.18638	0.17688	0.36978	0.50317	0.09513	0.02460	2.19	
0.00045	0.00320	0.00000	1.58753	0.83018	0.70278	0.92321	0.56899	0.88893	0.80733	1.61784	2.12208	0.38987	0.10489	10.55	
0.00005	0.00039	0.00224	0.00000	0.24645	0.23600	0.29611	0.15678	0.22681	0.19305	0.35531	0.42151	0.06951	0.01681	2.22	
0.00012	0.00086	0.00492	0.06615	0.00000	0.79758	1.13787	0.56901	0.69105	0.54955	0.98460	1.14230	0.18566	0.04471	6.17	
0.00041	0.00292	0.01677	0.22542	0.13475	0.00000	4.50672	2.61675	3.00260	1.94388	3.19520	3.54799	0.55104	0.12732	19.87	
0.00022	0.00029	0.00167	0.02241	0.01340	0.01479	0.00000	0.05409	0.08100	0.06220	0.10487	0.12227	0.02001	0.00475	0.50	
0.00000	0.00002	0.00011	0.00147	0.00088	0.00097	0.00163	0.00000	0.04880	0.03806	0.05148	0.04378	0.00607	0.00128	0.19	
0.00019	0.00147	0.00842	0.01698	0.01015	0.01121	0.01874	0.01299	0.00000	0.44990	0.75798	0.67162	0.08123	0.00000	2.04	
0.00147	0.00941	0.04960	0.63859	0.38359	0.44671	0.82250	0.60457	1.00599	0.12593	0.25146	0.31746	0.05441	0.00000	4.71	
0.00006	0.00000	0.01952	0.22430	0.09754	0.07983	0.11479	0.07249	0.11308	0.10288	0.20730	0.27438	0.05102	0.00000	1.36	

ADDED TO
CALEMOD TOTALS

1.36 PM10 WINTER
632.28 2011 lbs/day 4,739.06 5,209.79

Emissions (pounds)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
0.00002	0.00017	0.00102	0.01201	0.00698	0.00787	0.01296	0.00878	0.01470	0.01373	0.02766	0.03442	0.00580	0.00131	0.15	
0.00000	0.00199	0.02371	0.14826	0.14661	0.09702	0.24916	0.10776	0.26362	0.16746	0.46948	0.41618	0.09461	0.01757	2.20	
0.00000	0.20678	1.00749	15.94933	7.19457	10.72590	13.64208	12.22975	15.66819	19.61566	29.63255	50.81667	6.22370	2.20561	185.12	
0.00000	0.00003	0.00095	0.00196	0.00524	0.00127	0.00804	0.00140	0.00780	0.00217	0.01295	0.00539	0.00248	0.00023	0.05	
0.00000	0.03685	0.09136	2.80014	0.65208	1.88807	1.23641	2.19725	1.42074	3.66042	2.68990	10.03059	0.56542	0.45102	27.72	
0.00000	0.00013	0.00103	0.01002	0.00694	0.00657	0.01257	0.00730	0.01393	0.01134	0.02564	0.02819	0.00528	0.00119	0.13	
0.00000	0.07598	0.44324	5.89490	3.16528	3.95997	6.00176	4.47817	6.89262	7.06974	13.03385	17.86128	2.73721	0.76227	72.38	
0.00161	0.02403	0.06872	1.56558	0.48131	0.92004	0.90098	0.94045	1.02477	1.37382	1.92109	0.00000	0.00000	0.00000	9.22	
0.00140	0.00688	0.05962	0.53690	0.41652	0.36177	0.78001	0.40939	0.89210	0.64411	1.69344	0.00000	0.00000	0.00000	5.80	
0.00046	0.00521	0.01981	0.36176	0.13984	0.22306	0.26304	0.23625	0.30008	0.35413	0.56363	0.00000	0.00000	0.00000	2.47	
0.00023	0.00128	0.00999	0.09994	0.07033	0.06737	0.13211	0.07625	0.15092	0.11995	0.28493	0.00000	0.00000	0.00000	1.01	
0.00000	0.00097	0.00571	0.06485	0.03677	0.04082	0.06660	0.04490	0.07508	0.07014	0.14171	0.17757	0.03031	0.00771	0.76	
0.00000	0.00083	0.00684	0.06180												

0.00000	0.04729	0.26827	3.66516	1.91581	2.46204	3.63265	2.78721	4.17202	4.41051	7.88977	11.18625	1.65699	0.47867	44.57
0.00003	0.00084	0.00146	0.05810	0.01028	0.03116	0.01930	0.02884	0.02199	0.04115	0.04127	0.09733	0.00862	0.00000	0.36
0.00019	0.00071	0.00838	0.05537	0.06038	0.03734	0.11798	0.04228	0.14231	0.06657	0.28722	0.16699	0.06537	0.00000	1.05
0.00002	0.00013	0.00083	0.00974	0.00567	0.00639	0.01052	0.00712	0.01192	0.01112	0.02238	0.02784	0.00469	0.00103	0.12
0.00012	0.00082	0.00525	0.06318	0.03723	0.04239	0.07032	0.04789	0.08050	0.07527	0.15162	0.18860	0.03179	0.00000	0.79
0.00000	0.00000	0.00000	0.01821	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02
0.00039	0.00309	0.01700	0.23509	0.12132	0.15169	0.22969	0.16640	0.26308	0.25836	0.49538	0.64220	0.10372	0.02710	2.71
0.00024	0.00168	0.01048	0.13188	0.07494	0.08921	0.14188	0.09670	0.16262	0.15210	0.30634	0.38091	0.00000	0.00000	1.55
0.00099	0.00583	0.02787	0.25403	0.13011	0.13478	0.20674	0.13301	0.21682	0.20238	0.41895	0.53348	0.08985	0.00826	2.36
0.00002	0.00013	0.00086	0.01028	0.00604	0.00686	0.01137	0.00773	0.01298	0.01212	0.02441	0.03035	0.00511	0.00123	0.13
0.00007	0.00048	0.00305	0.03617	0.02114	0.02403	0.04000	0.02748	0.04684	0.04464	0.09205	0.11603	0.01954	0.00379	0.48
0.00010	0.00064	0.00390	0.04553	0.02644	0.02982	0.04914	0.03332	0.05594	0.05238	0.10593	0.13213	0.02225	0.00502	0.56
0.00071	0.00475	0.02978	0.35020	0.20360	0.23115	0.38555	0.26623	0.45748	0.44065	0.92056	1.16857	0.19682	0.03277	4.69
0.00214	0.01444	0.09194	1.10055	0.64617	0.73359	1.21374	0.82476	1.38401	1.29255	2.60126	3.23389	0.54467	0.13022	13.81
0.00694	0.04669	0.29463	3.48739	2.03526	2.31277	3.85206	2.65016	4.52778	4.32821	8.95992	11.31680	1.96063	0.35405	46.08
0.00001	0.00008	0.00049	0.00591	0.00347	0.00394	0.00653	0.00444	0.00746	0.00697	0.01405	0.01747	0.00294	0.00071	0.07
0.00004	0.00028	0.00175	0.02072	0.01211	0.01377	0.02292	0.01574	0.02684	0.02557	0.05274	0.06648	0.01120	0.00217	0.27
0.00007	0.00047	0.00271	0.02982	0.01690	0.01880	0.03065	0.02065	0.03458	0.03245	0.06606	0.08280	0.01394	0.00289	0.35
0.00002	0.00013	0.00086	0.01034	0.00610	0.00695	0.01154	0.00785	0.01320	0.01233	0.02483	0.03086	0.00520	0.00129	0.13
0.00027	0.00178	0.01138	0.13661	0.08041	0.09151	0.15173	0.10330	0.17363	0.16236	0.32706	0.40688	0.06860	0.00000	1.72
0.00054	0.00317	0.01486	0.13170	0.06616	0.06740	0.10155	0.06420	0.10310	0.09528	0.19668	0.25033	0.04216	0.00174	1.14
0.00104	0.00694	0.04333	0.51123	0.29710	0.33463	0.55014	0.37193	0.62162	0.57876	1.16215	1.44362	0.24314	0.05331	6.22
0.00005	0.00033	0.00206	0.02425	0.01406	0.01583	0.02604	0.01763	0.02955	0.02762	0.05574	0.06944	0.01170	0.00244	0.30
0.00112	0.00752	0.04783	0.57193	0.33532	0.38020	0.62838	0.42660	0.71527	0.66749	1.34234	1.66820	0.28097	0.06610	7.14
0.00042	0.00276	0.01719	0.20249	0.11762	0.13247	0.21781	0.14731	0.24634	0.22955	0.46146	0.57359	0.09661	0.02106	2.47
0.00001	0.00009	0.00057	0.00674	0.00390	0.00437	0.00714	0.00480	0.00799	0.00739	0.01475	0.01826	0.00308	0.00065	0.08
0.00003	0.00019	0.00120	0.01404	0.00809	0.00905	0.01477	0.00991	0.01646	0.01521	0.03032	0.03751	0.00632	0.00129	0.16
0.00022	0.00136	0.00773	0.08434	0.04744	0.05242	0.08491	0.05685	0.09464	0.08831	0.17887	0.22363	0.03767	0.00711	0.97
0.00110	0.00725	0.04454	0.51922	0.30084	0.33870	0.55715	0.37735	0.63269	0.59180	1.19568	1.49061	0.25106	0.05455	6.36
0.00014	0.00091	0.00544	0.06234	0.03586	0.04021	0.06597	0.04461	0.07480	0.07007	0.14201	0.17738	0.02988	0.00632	0.76
0.00018	0.00119	0.00743	0.08743	0.05100	0.05771	0.09529	0.06471	0.10868	0.10174	0.18910	0.23513	0.03960	0.00997	1.05
0.00079	0.00521	0.03188	0.37068	0.21370	0.23935	0.39174	0.26396	0.44015	0.40929	0.82168	1.02093	0.17195	0.03572	4.42
0.00011	0.00073	0.00440	0.05065	0.02909	0.03256	0.05335	0.03607	0.06049	0.05669	0.11498	0.14370	0.02420	0.00471	0.61
0.00000	0.00002	0.00013	0.00153	0.00090	0.00103	0.00170	0.00116	0.00195	0.00182	0.00365	0.00454	0.00076	0.00019	0.02
0.00002	0.00013	0.00083	0.00992	0.00583	0.00663	0.01099	0.00748	0.01257	0.01175	0.02367	0.02946	0.00497	0.00000	0.12
0.00119	0.01038	0.05228	0.78360	0.37305	0.49820	0.70622	0.53971	0.80887	0.83297	1.52306	2.06173	0.31887	0.00000	8.51
0.00013	0.00062	0.00573	0.04846	0.04022	0.03268	0.07574	0.03701	0.08729	0.05825	0.16735	0.14604	0.03607	0.00000	0.74

ADDED TO
CALEMOM TOTALS
470.73 2020 lbs/day
5,096.12
WINTER
5,566.85
Check
TRUE

Emissions (pounds)		2035												
SMPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00007	0.00058	0.00210	0.01522	0.00853	0.01276	0.02233	0.01740	0.01951	0.02171	0.03318	0.03726	0.00426	0.00140	0.20
0.00000	0.01041	0.03765	0.27152	0.15176	0.22648	0.39582	0.30829	0.34543	0.38447	0.58745	0.65985	0.07542	0.02537	3.48
0.00000	0.79017	2.79488	19.93757	11.08406	16.49110	28.77807	22.40387	25.10829	27.96897	42.79437	48.14259	5.51357	1.85739	253.66
0.00000	0.00004	0.00016	0.00109	0.00060	0.00087	0.00151	0.00117	0.00130	0.00144	0.00220	0.00248	0.00028	0.00010	0.01
0.00000	0.06246	0.22095	1.57623	0.87630	1.30377	2.27516	1.77121	1.98501	2.21115	3.38318	3.80594	0.43587	0.14683	20.05
0.00000	0.00091	0.00327	0.02323	0.01283	0.01900	0.03299	0.02557	0.02853	0.03164	0.04819	0.05405	0.00618	0.00208	0.29
0.00000	0.38571	1.36561	9.74759	5.42112	8.06761	14.08069	10.96293	12.28695	13.68713	20.94201	23.55826	2.69782	0.90878	124.11
0.00432	0.03130	0.10720	0.74275	0.40328	0.59004	1.01732	0.78529	0.87516	0.97189	1.48622	0.00000	0.00000	0.00000	7.01
0.00167	0.01270	0.04547	0.32693	0.18264	0.27257	0.47658	0.37147	0.41659	0.46417	0.71012	0.00000	0.00000	0.00000	3.28
0.00167	0.01289	0.04596	0.32697	0.18073	0.26765	0.46512	0.36070	0.40277	0.44711	0.68176	0.00000	0.00000	0.00000	3.19
0.00058	0.00447	0.01603	0.11543	0.06454	0.09637	0.16855	0.13140	0.14738	0.16422	0.25123	0.00000	0.00000	0.00000	1.16
0.00000	0.00462	0.01495	0.10033	0.05354	0.07751	0.13287	0.10230	0.11397	0.12675	0.19441	0.22020	0.02553	0.00867	1.18
0.00000	0.00476	0.01721	0.12409	0.06932	0.10340	0.18066	0.14067	0.15756	0.17531	0.26777	0.30068	0.03436	0.01156	1.59
0.00000	0.17914	0.63300	4.51261	2.50767	3.72994	6.50783	5.06580	5.67692	6.32351	9.67541	10.88498	1.24671	0.42001	57.36
0.00013	0.00100	0.00334	0.02250	0.01216	0.01780	0.03074	0.02384	0.02679	0.03011	0.04676	0.05378	0.00633	0.00000	0.28
0.00029	0.00223	0.00804	0.05804	0.03251	0.04860	0.08506	0.06634	0.07443	0.08294	0.12688	0.14262	0.01631	0.00000	0.74
0.00007	0.00058	0.00211	0.01528	0.00856	0.01279	0.02236	0.01742	0.01951	0.02171	0.03315	0.03722	0.00425	0.00139	0.20
0.00057	0.00438	0.01580	0.11409	0.06390	0.09551	0.16717	0.13038	0.14627	0.16300	0.24935	0.28029	0.03205	0.00000	1.46
0.00000	0.00000	0.00000	0.01257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01
0.00139	0.01093	0.03979	0.28888	0.16233	0.24313	0.42604	0.33250	0.37315	0.41586	0.63609	0.71471	0.08111	0.02728	3.75
0.00093	0.00728	0.02650	0.19240	0.10813	0.16198	0.28390	0.22160	0.24872	0.27721	0.42404	0.47648	0.00000	0.00000	2.43
0.00047	0.00364	0.01320	0.09552	0.05355	0.08005	0.14003	0.10913	0.12230	0.13612	0.20795	0.23352	0.02668	0.00879	1.23
0.00009	0.00069	0.00249	0.01803	0.01011	0.01513	0.02648	0.02065	0.02315	0.02577	0.03939	0.04424	0.00505	0.00167	0.23
0.00027	0.00210	0.00762	0.05524	0.03100	0.04637	0.08117	0.06329	0.07097	0.07902	0.12077	0.13564	0.01550	0.00514	0.71
0.00051	0.00401	0.01453	0.10520	0.05899	0.08822	0.15436	0.12032	0.13487	0.15014	0.22940	0.25763	0.02944	0.00972	1.36
0.00333	0.02605	0.09454	0.68473	0.38411	0.57450	1.00549	0.78388	0.87880	0.97844	1.49517	1.67920	0.19186	0.06347	8.84
0.01290	0.10079	0.36565	2.64812	1.48538	2.22146	3.88769	3.03066	3.39746	3.78244	5.77972	6.49094	0.74162	0.24519	34.19
0.03219	0.25168	0.91338	6.61624	3.71177	5.55185	9.71715	7.57575	8.49334	9.45645	14.45077	16.22950	1.85430	0.61374	85.47
0.00005	0.00039	0.00143	0.01033	0.00580	0.00867	0.01517	0.01183	0.01326	0.01477	0.02257	0.02535	0.00290</		

0.00015	0.00120	0.00437	0.03165	0.01776	0.02657	0.04651	0.03626	0.04066	0.04528	0.06920	0.07772	0.00888	0.00294	0.41
0.00009	0.00069	0.00245	0.01736	0.00966	0.01437	0.02507	0.01952	0.02189	0.02442	0.03746	0.04218	0.00482	0.00153	0.22
0.00008	0.00064	0.00234	0.01698	0.00953	0.01426	0.02498	0.01948	0.02185	0.02434	0.03720	0.04178	0.00477	0.00159	0.22
0.00107	0.00824	0.02970	0.21443	0.12010	0.17953	0.31422	0.24507	0.27493	0.30638	0.46868	0.52684	0.06024	0.00000	2.75
0.00011	0.00082	0.00295	0.02122	0.01184	0.01763	0.03075	0.02389	0.02671	0.02967	0.04523	0.05074	0.00580	0.00185	0.27
0.00406	0.03155	0.11356	0.81807	0.45704	0.68133	1.18916	0.92486	1.03469	1.14983	1.75410	1.96844	0.22490	0.07231	10.42
0.00027	0.00207	0.00745	0.05368	0.02999	0.04469	0.07800	0.06066	0.06785	0.07540	0.11501	0.12907	0.01475	0.00473	0.68
0.00495	0.03854	0.13898	1.00254	0.56066	0.83647	1.46092	1.13689	1.27254	1.41481	2.15923	2.42354	0.27690	0.08967	12.82
0.00160	0.01246	0.04486	0.32315	0.18054	0.26914	0.46974	0.36533	0.40872	0.45420	0.69289	0.77756	0.08884	0.02856	4.12
0.00005	0.00041	0.00149	0.01072	0.00599	0.00892	0.01556	0.01209	0.01352	0.01502	0.02291	0.02571	0.00294	0.00094	0.14
0.00016	0.00121	0.00434	0.03123	0.01744	0.02598	0.04532	0.03523	0.03940	0.04376	0.06674	0.07489	0.00856	0.00274	0.40
0.00050	0.00383	0.01329	0.09327	0.05154	0.07635	0.13270	0.10300	0.11526	0.12841	0.19685	0.22161	0.02532	0.00772	1.17
0.00545	0.04240	0.15303	1.10445	0.61788	0.92212	1.61092	1.25389	1.40377	1.56098	2.38267	2.67453	0.30558	0.09921	14.14
0.00068	0.00525	0.01894	0.13664	0.07642	0.11403	0.19918	0.15502	0.17355	0.19298	0.29459	0.33068	0.03778	0.01225	1.75
0.00079	0.00608	0.02179	0.15644	0.08727	0.12999	0.22677	0.17634	0.19732	0.21941	0.31681	0.35596	0.04067	0.01368	1.95
0.00278	0.02160	0.07771	0.55962	0.31256	0.46584	0.81291	0.63214	0.70710	0.78569	1.19845	1.34482	0.15365	0.04930	7.12
0.00052	0.00402	0.01444	0.10394	0.05804	0.08649	0.15090	0.11732	0.13122	0.14579	0.22237	0.24952	0.02851	0.00913	1.32
0.00001	0.00010	0.00035	0.00252	0.00141	0.00211	0.00369	0.00287	0.00322	0.00358	0.00547	0.00615	0.00070	0.00023	0.03
0.00009	0.00065	0.00232	0.01668	0.00932	0.01390	0.02430	0.01894	0.02124	0.02367	0.03621	0.04071	0.00466	0.00000	0.21
0.00284	0.02208	0.07928	0.56986	0.31902	0.47682	0.83430	0.65057	0.72989	0.81370	1.24577	1.40201	0.16056	0.00000	7.31
0.00040	0.00310	0.01120	0.08087	0.04530	0.06773	0.11855	0.09247	0.10374	0.11560	0.17684	0.19878	0.02273	0.00000	0.00000

		ADDED TO		
		CALEMOD TOTALS		
		1.04 PM10		WINTER
686.11	2035 lbs/day		8,640.21	9,326.33
	88,861,781.92 grams/yr		Check	
	97.95335164 tons/yr		TRUE	

Mobile Emissions Calculations – PM2.5

All Years – West Sacramento

Onroad Emissions - Passenger Vehicles

Last Updated:

6/16/2016

Notes

PM2.5 Emissions All Years

VMT Summary

Year	Vehicle Type	EMFAC2011 Vehicle Type	EMFAC Fleet Distribution	Allocated VMT per day														ALL SPEEDS
				5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	
2011	All Other Buses - DSL		0.02%	0.06	0.41	2.38	31.95	19.10	21.08	35.25	24.44	40.67	38.11	76.10	96.08	16.47	4.03	406
2011	LDA - DSL		0.30%	1.08	7.78	44.62	599.94	358.62	395.86	661.91	458.88	763.56	715.56	1428.91	1803.92	309.16	75.64	7,625
2011	LDA - GAS		44.60%	159.31	1143.53	6562.37	88228.65	52740.08	58216.82	97343.04	67483.85	112291.96	105233.04	210139.31	265290.57	45466.46	11123.40	1,121,422
2011	LDT1 - DSL		0.02%	0.06	0.42	2.42	32.49	19.42	21.44	35.85	24.85	41.35	38.75	77.38	97.69	16.74	4.10	413
2011	LDT1 - GAS		6.04%	21.57	154.85	888.62	11947.18	7141.62	7883.23	13181.38	9138.10	15205.64	14249.78	28455.30	35923.43	6156.69	1506.24	151,854
2011	LDT2 - DSL		0.00%	0.00	0.03	0.15	2.04	1.22	1.34	2.25	1.56	2.59	2.43	4.85	6.13	1.05	0.26	26
2011	LDT2 - GAS		18.75%	66.96	480.65	2758.27	37083.88	22167.48	24469.44	40914.80	28364.51	47198.06	44231.09	88324.83	111505.77	19110.26	4675.34	471,351
2011	LHD1 - DSL		2.75%	9.82	70.52	404.69	5440.95	3252.41	3590.16	6003.02	4161.64	6924.90	6489.59	12959.02	16360.13	2803.86	685.97	69,157
2011	LHD1 - GAS		2.47%	8.83	63.41	363.90	4892.53	2924.59	3228.29	5397.95	3742.18	6226.91	5835.48	11652.83	14711.13	2521.25	616.82	62,186
2011	LHD2 - DSL		0.54%	1.91	13.72	78.74	1058.60	632.80	698.51	1167.96	809.70	1347.33	1262.63	2521.34	3183.07	545.53	133.46	13,455
2011	LHD2 - GAS		0.26%	0.94	6.72	38.59	518.78	310.11	342.31	572.38	396.80	660.28	618.77	1235.62	1559.91	267.34	65.41	6,594
2011	MCY - GAS		0.77%	2.74	19.63	112.68	1514.90	905.55	999.59	1671.39	1158.71	1928.07	1806.87	3608.12	4555.08	780.67	190.99	19,255
2011	MDV - DSL		0.05%	0.19	1.38	7.92	106.42	63.61	70.22	117.41	83.40	135.44	126.93	253.46	319.98	54.84	13.42	1,353
2011	MDV - GAS		16.84%	60.14	431.66	2477.15	33304.35	19908.20	21975.55	36744.82	25473.64	42387.71	39723.12	79322.89	100141.26	17162.57	4198.84	423,312
2011	MH - DSL		0.03%	0.11	0.79	4.53	60.85	36.37	40.15	67.14	46.54	77.45	72.58	144.93	182.97	31.36	7.67	773
2011	MH - GAS		0.11%	0.41	2.95	16.92	227.47	135.97	150.09	250.97	173.99	289.51	271.31	541.78	683.97	117.22	28.68	2,891
2011	Motor Coach - DSL		0.01%	0.03	0.22	1.27	17.08	10.21	11.27	18.85	13.07	21.74	20.38	40.69	51.37	8.80	2.15	217
2011	OBUS - GAS		0.07%	0.26	1.89	10.84	145.71	87.10	96.14	160.76	111.45	185.45	173.79	347.04	438.13	75.09	18.37	1,852
2011	PTO - DSL		0.09%	0.34	2.42	13.91	186.96	111.76	123.36	206.27	143.00	237.95	222.99	445.28	562.15	96.34	23.57	2,376
2011	SBUS - DSL		0.05%	0.17	1.19	6.81	91.62	54.77	60.45	101.08	70.08	116.60	109.27	218.21	275.48	47.21	11.55	1,164
2011	SBUS - GAS		0.03%	0.12	0.85	4.90	65.88	39.38	43.47	72.68	50.39	83.84	78.57	156.90	198.08	33.95	8.31	837
2011	T6 Ag - DSL		0.09%	0.34	2.44	13.98	187.90	112.32	123.98	207.31	143.72	239.15	224.11	447.53	564.99	96.83	23.69	2,388
2011	T6 CAIRP heavy - DSL		0.01%	0.04	0.27	1.53	20.53	12.27	13.55	22.65	15.70	26.13	24.49	48.90	61.74	10.58	2.59	261
2011	T6 CAIRP small - DSL		0.03%	0.11	0.82	4.69	63.03	37.68	41.59	69.54	48.21	80.22	75.18	150.12	189.52	32.48	7.95	801
2011	T6 instate construction heavy - DSL		0.03%	0.11	0.81	4.65	62.56	37.40	41.28	69.02	47.85	79.62	74.62	149.00	188.11	32.24	7.89	795
2011	T6 instate construction small - DSL		0.21%	0.74	5.30	30.39	408.57	244.23	269.59	450.78	312.50	520.00	487.31	973.11	1228.51	210.55	51.51	5,193
2011	T6 instate heavy - DSL		0.58%	2.06	14.78	84.81	1140.28	681.62	752.41	1258.08	872.17	1451.28	1360.05	2715.88	3428.67	587.62	143.76	14,493
2011	T6 instate small - DSL		1.59%	5.66	40.65	233.29	3136.48	1874.88	2069.58	3460.49	2399.01	3991.92	3740.98	7470.34	9430.93	1616.31	395.43	39,866
2011	T6 OOS heavy - DSL		0.01%	0.02	0.15	0.88	11.76	7.03	7.76	12.98	9.00	14.97	14.03	28.02	35.37	6.06	1.48	150
2011	T6 OOS small - DSL		0.02%	0.07	0.47	2.69	36.11	21.59	23.83	39.84	27.62	45.96	43.07	86.01	108.59	18.61	4.55	459
2011	T6 Public - DSL		0.05%	0.18	1.27	7.27	97.73	58.42	107.82	74.75	124.38	116.56	232.76	293.85	50.36	12.32	1,422	
2011	T6 utility - DSL		0.01%	0.05	0.35	1.98	26.64	15.92	17.58	29.39	20.37	33.90	31.77	63.44	80.09	13.73	3.36	339
2011	T6T5 - GAS		0.25%	0.88	6.34	36.36	488.84	292.21	322.55	539.33	373.90	622.16	583.05	1164.29	1469.86	251.91	61.63	6,213
2011	T7 Ag - DSL		0.03%	0.10	0.75	4.28	57.50	34.37	37.94	63.44	43.98	73.18	68.58	136.94	172.89	29.63	7.25	731
2011	T7 CAIRP - DSL		0.65%	2.33	16.75	96.10	1291.99	772.30	852.50	1425.45	988.21	1644.36	1540.99	3077.20	3884.81	665.79	162.89	16,422
2011	T7 CAIRP construction - DSL		0.02%	0.08	0.58	3.30	44.38	26.53	29.28	48.96	33.94	56.48	52.93	105.70	133.44	22.87	5.60	564
2011	T7 NNOOS - DSL		0.81%	2.89	20.76	119.16	1602.06	957.66	1057.11	1767.56	1225.38	2039.01	1910.83	3815.73	4817.17	825.58	201.98	20,363
2011	T7 NOOS - DSL		0.26%	0.92	6.61	37.96	510.33	305.06	336.74	563.05	390.34	649.52	608.69	1215.49	1534.50	262.99	64.34	6,487
2011	T7 other port - DSL		0.01%	0.02	0.15	0.86	11.53	6.89	7.61	12.72	8.82	14.67	13.75	27.46	34.67	5.94	1.45	147
2011	T7 POAK - DSL		0.02%	0.05	0.39	2.23	29.92	17.89	19.74	33.01	22.89	38.08	35.69	71.27	89.98	15.42	3.77	380
2011	T7 Public - DSL		0.10%	0.34	2.44	14.03	188.58	112.73	124.43	208.06	144.24	240.01	224.93	449.16	567.04	97.18	23.78	2,397
2011	T7 Single - DSL		0.48%	1.70	12.20	70.03	941.55	562.83	621.27	1038.82	720.17	1198.35	1123.02	2242.54	2831.10	485.20	118.71	11,967
2011	T7 single construction - DSL		0.06%	0.21	1.49	8.54	114.80	68.63	75.75	126.66	87.81	146.11	136.93	273.43	345.20	59.16	14.47	1,467
2011	T7 SWCV - DSL		0.13%	0.46	3.27	18.79	252.60	150.99	166.67	278.69	193.21	321.49	301.28	601.63	759.53	130.17	31.85	3,211
2011	T7 tractor - DSL		0.44%	1.55	11.16	64.03	860.80	514.56	567.99	949.73	658.41	1095.58	1026.71	2050.23	2588.31	443.59	108.53	10,943
2011	T7 tractor construction - DSL		0.04%	0.15	1.11	6.37	85.59	51.17	56.48	94.44	65.47	108.94	102.09	203.87	257.37	44.11	10.79	1,088
2011	T7 utility - DSL		0.00%	0.01	0.07	0.42	5.63	3.36	3.71	6.21	4.31	7.16	6.71	13.41	16.92	2.90	0.71	72
2011	T7IS - GAS		0.03%	0.12	0.84	4.82	64.86	38.77	42.79	71.56	49.61	82.55	77.36	154.47	195.01	33.42	8.18	824
2011	UBUS - DSL		0.20%	0.73	5.23	29.99	403.18	241.01	266.03	444.83	308.38	513.14	480.88	960.27	1212.29	207.77	50.83	5,125
2011	UBUS - GAS		0.06%	0.21	1.54	8.85	118.95	71.10	78.49	131.24	90.98	151.39	141.87	283.31	357.66	61.30	15.00	1,512
			1.00	357.20	2563.99	14713.89	197822.92	118251.80	130531.57	218258.84	151309.71	251776.75	235949.51	471166.34	594824.40	101943.17	24940.47	2514410.52
		VMT check		178.585	1190.17	7227.73	89924.76	50414.175	55363.21	93320.32	70671.24	119429.015	117283.25	234978.005	296815.735	50971.585	12470.235	
Year	Vehicle Type	EMFAC2011 Vehicle Type		5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
2020	All Other Buses - DSL		0.01%	0.05	0.34	2.23	26.91	15.91	18.15	30.15	20.55	34.56	32.32	65.10	80.94	13.63	3.43	344
2020	LDA - DSL		0.54%	2.09	14.23	91.98	1112.18	657.47	750.20	1246.09	849.26	1428.22	1335.80	2690.46	3345.37	563.44	141.91	14,229
2020	LDA - GAS		47.48%	185.03	1262.24	8159.01	98660.05	58323.61	66549.64	110538.57	75396.98	126695.73	118496.99	238667.19	296763.34	49982.34	12588.39	1,262,209
2020	LDT1 - DSL		0.01%	0.03	0.18	1.17	14.17	8.38	9.56	15.88	10.82	18.20	17.02	34.28	42.62	7.18	1.81	181
2020	LDT1 - GAS		4.25%	16.57	113.02	730.56	8834.04	5222.31	5958.86	9897.64	6745.68	11344.35	10610.24	21370.30	26572.23	4475.43	1127.17	113,018
2020	LDT2 - DSL		0.04%	0.14	0.97	6.24	75.45	44.60	50.89	84.53	57.61	96.89	90.62	182.52	226.95	38.22	9.63	965
2020	LDT2 - GAS		20.91%	81.50	555.94	3593.57	43453.99	25688.15	29311.23	48685.79	33181.54	55802.08	52191.01	105118.97	130706.93	22014.31	5544.45	555,929
2020	LHD1 - DSL		1.58%	6.17	42.11	272.17	3291.07	1945.54	2219.94	3687.31	2513.07	4226.28	3952.					

2020	SBUS - GAS	0.03%	0.12	0.80	5.19	62.79	37.12	42.35	70.34	47.94	80.63	75.41	151.88	188.86	31.81	8.01	803
2020	T6 Ag - DSL	0.08%	0.32	2.17	14.04	169.73	100.34	114.49	190.16	129.61	217.96	203.86	410.59	510.53	85.99	21.66	2,171
2020	T6 CAIRP heavy - DSL	0.01%	0.05	0.32	2.10	25.36	14.99	17.10	28.41	19.36	32.56	30.45	61.34	76.27	12.85	3.24	324
2020	T6 CAIRP small - DSL	0.04%	0.15	1.00	6.44	77.84	46.01	52.50	87.21	59.44	99.95	93.49	188.29	234.13	39.43	9.93	996
2020	T6 instate construction heavy - DSL	0.05%	0.19	1.32	8.53	103.11	60.95	69.55	115.53	78.74	132.41	123.84	249.43	310.15	52.24	13.16	1,319
2020	T6 instate construction small - DSL	0.32%	1.26	8.62	55.69	673.40	398.09	454.23	754.48	514.21	864.76	808.80	1629.02	2025.56	341.15	85.92	8,615
2020	T6 instate heavy - DSL	1.29%	5.02	34.24	221.31	2676.11	1582.00	1805.13	2998.31	2043.48	3436.56	3214.18	6473.74	8049.57	1355.75	341.45	34,237
2020	T6 instate small - DSL	3.50%	13.65	93.09	601.73	7276.19	4301.38	4908.05	8152.24	5556.11	9343.83	8739.17	17601.74	21886.34	3686.21	928.40	93,088
2020	T6 OOS heavy - DSL	0.01%	0.03	0.19	1.20	14.53	8.59	9.80	16.28	11.09	18.66	17.45	35.14	43.70	7.36	1.85	186
2020	T6 OOS small - DSL	0.02%	0.08	0.57	3.69	44.60	26.36	30.08	49.97	34.05	57.27	53.56	107.88	134.15	22.59	5.69	571
2020	T6 Public - DSL	0.03%	0.11	0.76	4.91	59.33	35.08	40.02	66.48	45.31	76.19	71.26	143.53	178.47	30.06	7.57	759
2020	T6 utility - DSL	0.01%	0.05	0.34	2.20	26.60	15.73	17.95	29.81	20.31	34.16	31.95	64.36	80.02	13.48	3.39	340
2020	T6TS - GAS	0.17%	0.66	4.51	29.12	352.15	208.18	237.54	394.55	268.90	452.22	422.96	851.89	1059.25	178.40	44.93	4,505
2020	T7 Ag - DSL	0.02%	0.10	0.66	4.29	51.93	30.70	35.03	58.19	39.66	66.69	62.37	125.63	156.21	26.31	6.63	664
2020	T7 CAIRP - DSL	0.77%	2.99	20.41	131.94	1595.48	943.18	1076.21	1787.57	1218.31	2048.86	1916.27	3859.61	4799.11	808.29	203.57	20,412
2020	T7 CAIRP construction - DSL	0.04%	0.14	0.94	6.05	73.15	43.24	49.34	81.95	55.85	93.93	87.85	176.95	220.02	37.06	9.33	936
2020	T7 NNOOS - DSL	0.95%	3.71	25.31	163.61	1978.40	1169.54	1334.50	2216.59	1510.71	2540.59	2376.18	4785.92	5950.90	1002.28	252.43	25,311
2020	T7 NOOS - DSL	0.30%	1.18	8.06	52.12	630.21	372.56	425.10	706.09	481.23	809.30	756.93	1524.54	1895.65	319.27	80.41	8,063
2020	T7 other port - DSL	0.01%	0.04	0.25	1.61	19.44	11.49	13.11	21.78	14.84	24.96	23.34	47.02	58.46	9.85	2.48	249
2020	T7 POAK - DSL	0.02%	0.07	0.50	3.21	38.76	22.91	26.14	43.42	29.59	49.77	46.55	93.76	116.58	19.63	4.95	496
2020	T7 Public - DSL	0.10%	0.40	2.72	17.59	212.65	125.71	143.44	238.25	162.38	273.07	255.40	514.41	639.63	107.73	27.13	2,721
2020	T7 Single - DSL	0.79%	3.06	20.89	135.00	1632.47	965.05	1101.16	1829.02	1246.56	2096.36	1960.70	3949.09	4910.37	827.03	208.29	20,885
2020	T7 single construction - DSL	0.09%	0.35	2.42	15.65	189.22	111.86	127.64	212.60	144.49	242.99	227.27	457.74	569.16	95.86	24.24	2,421
2020	T7 SWCV - DSL	0.14%	0.56	3.82	24.69	298.51	176.47	201.35	334.45	227.94	383.33	358.53	722.12	897.89	151.23	38.09	3,819
2020	T7 tractor - DSL	0.51%	2.01	13.68	88.41	1069.09	632.00	721.14	1197.81	816.36	1372.89	1284.05	2586.23	3215.77	541.62	136.41	13,677
2020	T7 tractor construction - DSL	0.07%	0.26	1.80	11.67	141.08	83.40	95.16	158.06	107.73	181.44	168.44	341.28	424.35	71.47	18.00	1,805
2020	T7 utility - DSL	0.00%	0.01	0.07	0.46	5.62	3.32	3.79	6.30	4.29	7.22	6.75	13.60	16.91	2.85	0.72	72
2020	T7IS - GAS	0.02%	0.08	0.57	3.66	44.26	26.17	29.86	49.59	33.80	56.84	53.16	107.07	133.13	22.42	5.65	566
2020	UBUS - DSL	0.13%	0.52	3.51	22.72	274.72	162.41	185.31	307.80	209.78	352.79	329.96	664.58	826.35	139.18	35.05	3,515
2020	UBUS - GAS	0.06%	0.24	1.61	10.43	126.10	74.54	85.06	141.28	96.29	161.93	151.45	305.04	379.29	63.88	16.09	1,613

		1.00	389.69	2658.34	17183.25	207782.62	122832.22	140156.61	232799.33	158663.16	266827.06	249560.13	502644.12	624997.29	105265.12	26511.72	2658270.66
	VMT check		194.84	1229.625	8416.49	94201.115	52171.34	59280.045	99168.43	74026.2	126683.785	123989.825	250668.65	311923.755	52632.56	13255.86	

Year	Vehicle Type	EMFAC2011 Vehicle Type	5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS	
2035	All Other Buses - DSL		0.01%	0.19	1.46	5.32	38.65	21.74	32.57	57.11	44.58	50.04	55.78	85.32	95.86	10.95	3.68	503
2035	LDA - DSL		0.64%	10.44	81.95	298.86	2171.83	1221.35	1830.33	3208.68	2505.01	2811.80	3134.00	4793.81	5386.30	615.41	206.96	28,277
2035	LDA - GAS		46.68%	764.67	6000.71	21882.94	159022.31	89427.22	134017.31	234940.34	183417.59	205881.01	229472.63	351004.30	394385.95	45060.64	15153.63	2,070,431
2035	LDT1 - DSL		0.00%	0.04	0.28	1.03	7.48	4.21	6.30	11.05	8.63	10.79	16.51	18.55	2.12	0.71	97	
2035	LDT1 - GAS		3.69%	60.45	474.38	1729.94	12571.37	7069.59	10594.63	18573.01	14499.92	16275.75	18140.77	27748.35	31177.85	3562.23	1197.96	163,676
2035	LDT2 - DSL		0.05%	0.82	6.41	23.36	169.76	95.47	143.07	250.81	195.81	219.79	244.97	374.71	421.02	48.10	16.18	2,210
2035	LDT2 - GAS		22.85%	374.42	2938.21	10714.86	77864.40	43787.55	65620.84	115037.24	8909.41	100808.50	112360.01	171867.32	193108.90	22063.69	7419.89	1,013,775
2035	LHD1 - DSL		0.74%	12.11	95.02	346.52	2518.13	1416.09	2122.17	3720.30	2904.43	3633.71	5558.18	6245.13	713.54	239.96	32,785	
2035	LHD1 - GAS		0.41%	6.77	53.15	193.84	1408.59	792.13	1187.10	2081.06	1624.68	1823.66	2032.63	3109.14	3493.41	399.14	134.23	1,830
2035	LHD2 - DSL		0.31%	5.14	40.30	146.98	1068.07	600.64	900.13	1577.98	1231.92	1382.80	1541.25	2357.52	2664.89	302.65	101.78	13,946
2035	LHD2 - GAS		0.13%	2.08	16.36	59.66	433.54	243.80	365.37	640.51	500.05	561.29	625.60	956.93	1075.20	122.85	41.31	5,645
2035	MCV - GAS		0.55%	9.04	70.96	258.78	1880.54	1057.53	1584.84	2778.31	2169.02	2434.67	2713.65	4150.84	4663.85	532.87	179.20	24,484
2035	MDV - DSL		0.29%	4.75	37.25	135.85	987.24	555.18	832.01	1458.56	1138.69	1278.15	1424.61	2179.11	2448.43	279.75	94.08	12,854
2035	MDV - GAS		10.55%	172.77	1355.78	4944.15	35928.89	20204.84	30279.35	53081.51	41440.66	46515.96	51846.16	79304.55	89106.03	10180.83	3423.75	467,785
2035	MH - DSL		0.01%	0.21	1.63	5.94	43.14	24.26	36.36	63.73	49.76	55.85	62.25	95.22	106.99	12.22	4.11	562
2035	MH - GAS		0.04%	0.72	5.66	20.62	149.87	84.28	126.30	221.41	172.86	194.03	216.26	330.80	371.68	42.47	14.28	1,951
2035	Motor Coach - DSL		0.01%	0.18	1.45	5.27	38.32	21.55	32.29	56.61	44.20	49.61	55.29	84.58	95.03	10.86	3.65	499
2035	OBUS - GAS		0.09%	1.42	11.11	40.53	294.51	165.62	248.20	435.11	339.69	381.29	424.98	650.05	730.40	83.45	28.06	3,834
2035	PTO - DSL		0.23%	3.80	29.79	108.64	789.46	443.96	665.33	1166.36	910.57	1022.09	1139.21	1742.56	1957.93	223.70	75.23	10,279
2035	SBUS - DSL		0.04%	0.68	5.33	19.43	141.17	79.39	118.98	208.57	162.83	182.77	203.72	311.61	350.12	40.00	13.45	1,838
2035	SBUS - GAS		0.03%	0.46	3.59	13.10	95.16	53.52	80.20	140.60	109.76	123.21	137.32	210.05	236.02	26.97	9.07	1,239
2035	T6 Ag - DSL		0.07%	1.16	9.12	33.27	241.78	135.96	203.76	357.20	278.87	313.02	348.89	533.66	599.62	68.51	23.04	3,148
2035	T6 CAIRP heavy - DSL		0.01%	0.22	1.74	6.34	46.05	25.90	38.81	68.04	53.12	59.62	66.46	101.65	114.22	13.05	4.39	600
2035	T6 CAIRP small - DSL		0.04%	0.68	5.33	19.45	141.37	79.50	119.14	208.86	163.06	183.03	204.00	312.05	350.61	40.06	13.47	1,841
2035	T6 instate construction heavy - DSL		0.08%	1.29	10.09	36.80	267.42	150.38	225.37	395.09	308.44	346.22	385.89	590.26	663.22	75.78	25.48	3,482
2035	T6 instate construction small - DSL		0.51%	8.40	65.90	240.33	1746.47	982.14	1471.85	2580.25	2014.39	2261.10	2520.20	3854.92	4331.37	494.88	166.43	22,739
2035	T6 instate heavy - DSL		1.98%	32.44	254.60	928.46	6747.05	3794.25	5686.13	9968.12	7782.10	8735.19	9736.14	14892.52	16733.13	1911.85	642.94	87,845
2035	T6 instate small - DSL		4.96%	81.21	637.28	2324.00	16888.42	9497.31	14232.85	24951.03	19479.23	21864.88	24370.35	37277.20	41884.40	4785.51	1609.34	219,879
2035	T6 OOS heavy - DSL		0.01%	0.13	1.00	3.63	26.39	14.84	22.24	38.98	30.43	34.16	38.08	58.24	65.44	7.48	2.51	344
2035	T6 OOS small - DSL		0.02%	0.39	3.06	11.15	81.00	45.55	68.26	119.67	93.43	104.87	116.89	178.79	200.89	22.95	7.72	1,055
2035	T																	

VMT check | 712.68 | 6123.505 | 22675.305 | 154298.405 | 81264.315 | 125706.57 | 217971.84 | 185601.78 | 212234.53 | 242968.585 | 374146.69 | 422137.835 | 48270.03 | 16232.93

Emissions Summary - BAU

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2011	All Other Buses - DSL	PM2.5	1.580153373	1.323300649	0.907483947	0.62067063	0.50594515	0.439490117	0.391533967	0.362061191	0.351094559	0.358689647	0.384932129	0.404881194	0.404881194	0.058860017	
2011	LDA - DSL	PM2.5	0	0.227611535	0.134798165	0.171016535	0.134798165	0.111239509	0.095879337	0.086045282	0.080183996	0.077435914	0.077419142	0.080137937	0.086009701	0.059901976	
2011	LDA - GAS	PM2.5	0.1027999058	0	0.034254861	0.028395571	0.024986473	0.022930833	0.0216541	0.020845013	0.020330148	0.020011213	0.019832982	0.019766826	0.019802749	0.019946753	
2011	LD1 - DSL	PM2.5	0.020222511	0.02042351	0	0.539774204	0.282906641	0.219976952	0.179125874	0.152502779	0.135483751	0.12537398	0.120682507	0.120682507	0.01749051	0.125586118	
2011	LD1 - GAS	PM2.5	0.135893862	0.153198874	0.165264257	0	0.045789267	0.036189085	0.030504806	0.027020084	0.024822087	0.023408892	0.022496711	0.021922405	0.021592953	0.021459153	
2011	LD2 - DSL	PM2.5	0.021502745	0.021731971	0.022184034	0.022515465	0	0.094570214	0.697887705	0.513289051	0.395544509	0.319145872	0.269362472	0.237552291	0.218674845	0.209941544	
2011	LD2 - GAS	PM2.5	0.210118605	0.21932231	0.238578837	0.271025658	0.2936482	0	0.030940193	0.026243297	0.023513141	0.021868065	0.020846662	0.020199173	0.019786498	0.019529768	
2011	LHD1 - DSL	PM2.5	0.019384563	0.019327655	0.019350557	0.01945731	0.019665651	0.019818327	0	0.176471594	0.134319367	0.107893035	0.090932722				
2011	LHD1 - GAS	PM2.5	0.079875528	0.072662519	0.068036213	0.065267962	0.063954477	0.063915898	0.065152578	0	0.046092129	0.042004846	0.039646129				
2011	LHD2 - DSL	PM2.5	0.038235462	0.037366529	0.036820653	0.036476863	0.036267143	0.036153699	0.036117371	0.036152113	0	0.165975017	0.128975273				
2011	LHD2 - GAS	PM2.5	0.105650844	0.090614367	0.080779998	0.074354608	0.070222693	0.067741202	0.066541369	0.066466369	0.067514338	0	0.049336771				
2011	MCY - GAS	PM2.5	0.046066433	0.044174858	0.043041211	0.042341671	0.041901633	0.041624353	0.041455377	0.041364452	0.041336298	0.041366228	0	0.014609301	0.011927815	0.010281937	
2011	MDV - DSL	PM2.5	0.009243614	0.008575577	0.008142732	0.00786679	0.007702385	0.007624403	0.007621437	0.007692959	0.007849146	0.008113357	0.008298198	0	0.230296937	0.166909939	
2011	MDV - GAS	PM2.5	0.127072932	0.101454548	0.08472724	0.073811614	0.066802095	0.062596806	0.060496357	0.062327347	0.066394293	0.073295127	0.078106521	0	0.030031991		
2011	MH - DSL	PM2.5	0.025659414	0.02311724	0.021585053	0.022063343	0.020202993	0.019534348	0.019407801	0.019269177	0.019215131	0.019325082	0.019332616	0.019523978	0.019654408		
2011	MH - GAS	PM2.5	0	0.625904817	0.537822771	0.393967651	0.293191158	0.229433148	0.229478701	0.214774525	0.207996403	0.209130655	0.218168914	0.235105744	0.259973423		
2011	Motor Coach - DSL	PM2.5	0.292726321	0	0.079311396	0.072446272	0.068361541	0.065851173	0.064269303	0.063250992	0.062618695	0.062232943	0.062037955	0.062212234	0.062412961		
2011	OBUS - GAS	PM2.5	0.962565444	0.644765731	0.519751734	0.450457185	0.404074487	0.380706386	0.380723459	0.40475454	0.45368196	0.485938856	0.485938856	0.058860017	0.058860017		
2011	PTO - DSL	PM2.5	0	0.058860017	0	0.058860017	0	0.058860017	0	0.058860017	0	0.058860017	0	0.058860017	0	0.058860017	
2011	SBUS - DSL	PM2.5	0.058860017	0.058860017	0	0.066254496	0.063594777	0.062058125	0.061138139	0.060570944	0.060214388	0.05998977	0.059852818	0.059778933	0.059755668	0.059779148	
2011	SBUS - GAS	PM2.5	0	1.862925174	1.606989891	1.191877105	0.904636093	0.789233125	0.721716878	0.671875602	0.639822224	0.625615216	0.629356839	0.651119029	0	0.030031991	
2011	T6 Ag - DSL	PM2.5	0.668638348	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	0.322200092	
2011	T6 CAIRP heavy - DSL	PM2.5	0.326800494	0.327300219	0	2.283606521	1.927568	1.348357534	0.944727957	0.780766832	0.683100892	0.609437315	0.559795246	0.534240503	0.532848001	0.555881402	
2011	T6 CAIRP small - DSL	PM2.5	0.058860017	0.058860017	0.058860017	0	1.164372982	0.981575339	0.68850675	0.481227439	0.399347015	0.354234141	0.324836243	0.311139685	0.311374884	0.321028274	
2011	T6 instate construction heavy - DSL	PM2.5	0.058860017	0.058860017	0.058860017	0	0.743003798	0.61488017	0.477452134	0.361682711	0.314040761	0.289832115	0.277218011	0.276166994	0.286686996		
2011	T6 instate construction small - DSL	PM2.5	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	
2011	T6 instate heavy - DSL	PM2.5	0.406281709	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	
2011	T6 instate small - DSL	PM2.5	0.358456553	0.358456553	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	
2011	T6 OOS heavy - DSL	PM2.5	0.410970988	0.432996808	0.432996808	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	
2011	T6 OOS small - DSL	PM2.5	0.321744263	0.354523968	0.375370922	0.375370922	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	0.058860017	
2011	T6 Public - DSL	PM2.5	0.313178484	0.313102874	0.364803306	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	0.387446997	
2011	T6 utility - DSL	PM2.5	0.276166994	0.28668996	0.308817605	0.342526232	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	0.363768583	
2011	T6TS - GAS	PM2.5	0.349373634	0.324901074	0.312767965	0.312993062	0.325608153	0.336495581	0.336495581	0.336495581	0.336495581	0.336495581	0.336495581	0.336495581	0.336495581	0.336495581	
2011	T7 Ag - DSL	PM2.5	0.3616924	0.31717033	0.244972592	0.19420665	0.173113658	0.16283787	0.156570311	0.155937231	0.160367134	0.169854868	0.184403997	0.193248523	0.193248523	0.058860017	
2011	T7 CAIRP - DSL	PM2.5	0	0.08163566	0.07393557	0.069368186	0.066568716	0.063686199	0.062975158	0.062546344	0.062328152	0.062289503	0.062276797	0.062276797	0.062276797	0.062276797	
2011	T7 CAIRP construction - DSL	PM2.5	1.544135622	1.279121063	1.118918593	0.994864185	0.907198104	0.856494112	0.843932912	0.807514007	0.896542911	0.896542911	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 NOOS - DSL	PM2.5	0.88341931	0.621200649	0.516506042	0.459987336	0.427321471	0.417646531	0.431096282	0.467931564	0.528533735	0.567050281	0.567050281	0.03546001	0.03546001	0.03546001	
2011	T7 NOOS - DSL	PM2.5	0.911561959	0.698152732	0.544124555	0.47883297	0.448912373	0.438604637	0.447879278	0.476781413	0.525420979	0.593967376	0.635379588	0.635379588	0.03546001	0.03546001	
2011	T7 other port - DSL	PM2.5	0.870442816	0.755747308	0.5696068	0.437144206	0.381266092	0.353956518	0.341753344	0.344581747	0.362454901	0.395456082	0.443729792	0.473286732	0.473286732	0.03546001	
2011	T7 POAK - DSL	PM2.5	0	1.495384208	1.261193854	0.883441931	0.621206459	0.516506642	0.459987336	0.427321471	0.417646531	0.431096282	0.467931564	0.528533735	0.567050281	0.567050281	
2011	T7 Public - DSL	PM2.5	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 Single - DSL	PM2.5	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 single construction - DSL	PM2.5	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 SWCV - DSL	PM2.5	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 tractor - DSL	PM2.5	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	0.03546001	
2011	T7 tractor construction - DSL	PM2.5	0.448200871	0.03546001	0.03546001	0.03546001	0.03546001	0.0354									

2020	T6 instate construction small - DSL	PM2.5	0.123188451	0.119648545	0.113649736	0.108380945	0.105308557	0.104396574	0.105157812	0.10756185	0.111589765	0.11722899	0.124470765	0.12869047	0.12869047	0.058860017
2020	T6 instate heavy - DSL	PM2.5	0.074904245	0.073247643	0.071032681	0.069532506	0.068533611	0.067799084	0.067233069	0.066803486	0.066490366	0.06628043	0.066164397	0.066139415	0.066139415	0.058860017
2020	T6 instate small - DSL	PM2.5	0.104310762	0.10176775	0.097524964	0.093829094	0.091642376	0.090948101	0.091410665	0.093005354	0.095716785	0.099534729	0.104452037	0.107321274	0.107321274	0.058860017
2020	T6 OOS heavy - DSL	PM2.5	0.072805955	0.071327802	0.069286282	0.067887193	0.067015136	0.066403989	0.065954919	0.065643221	0.065453513	0.065375569	0.065402244	0.065453127	0.065453127	0.058860017
2020	T6 OOS small - DSL	PM2.5	0.097617111	0.095412563	0.091767241	0.088613937	0.086737589	0.086117214	0.086469234	0.087771051	0.0900086	0.093172528	0.097256299	0.09645159	0.09645159	0.058860017
2020	T6 Public - DSL	PM2.5	0.160826881	0.145029553	0.119717987	0.102155919	0.094768851	0.090411296	0.087305062	0.085425211	0.084757429	0.085293703	0.087030177	0.088340689	0.088340689	0.058860017
2020	T6 utility - DSL	PM2.5	0.062262545	0.062248168	0.06177147	0.061457477	0.061222953	0.061032569	0.060879795	0.060746255	0.060629454	0.060525659	0.060432262	0.06038885	0.06038885	0.058860017
2020	T6TS - GAS	PM2.5	0.066350453	0.063620442	0.062051806	0.061117399	0.0605438	0.06018437	0.059958234	0.059820013	0.059744487	0.059718777	0.059738607	0.05987005	0.059935596	0.058860017
2020	T7 Ag - DSL	PM2.5	1.936183731	1.664615939	1.177192969	0.84750476	0.711456192	0.628997803	0.565168037	0.520063143	0.493977552	0.487399541	0.501009071	0.514205244	0.514205244	0.03546001
2020	T7 CAIRP - DSL	PM2.5	0.066634427	0.06349866	0.059217274	0.056370587	0.054431421	0.052982117	0.0518478	0.05096372	0.050289572	0.049798556	0.049471941	0.049465885	0.049365885	0.03546001
2020	T7 CAIRP construction - DSL	PM2.5	0.07248019	0.068809848	0.063805042	0.060341202	0.058087681	0.056519271	0.055402896	0.054670307	0.054280616	0.054206692	0.054429993	0.054657094	0.054647094	0.03546001
2020	T7 NNOOS - DSL	PM2.5	0.049425405	0.048080351	0.04634927	0.045180499	0.044329989	0.043684848	0.043180635	0.042786689	0.042483923	0.042259645	0.042104987	0.042051681	0.042051681	0.03546001
2020	T7 NOOS - DSL	PM2.5	0.067490756	0.064167329	0.059707329	0.056683998	0.054687127	0.053225031	0.052102096	0.051255017	0.050644386	0.050243997	0.050035538	0.049998981	0.049998981	0.03546001
2020	T7 other port - DSL	PM2.5	0.07931471	0.074925913	0.069388084	0.065732949	0.063007643	0.060842023	0.059044523	0.057516213	0.056190375	0.055023834	0.053986417	0.053509044	0.053509044	0.03546001
2020	T7 POAK - DSL	PM2.5	0.08735196	0.082165984	0.075614398	0.071289063	0.068064741	0.065501742	0.063379548	0.061574834	0.060010828	0.058636478	0.057416109	0.056855288	0.056855288	0.03546001
2020	T7 Public - DSL	PM2.5	0.134759701	0.120947761	0.099006924	0.083581833	0.076718014	0.072445502	0.069206449	0.066964565	0.065702957	0.065417498	0.066113532	0.066798342	0.066798342	0.03546001
2020	T7 Single - DSL	PM2.5	0.070071553	0.068588783	0.059750663	0.055525747	0.053266333	0.051784711	0.050726421	0.050047113	0.049720387	0.049730195	0.050067067	0.05034903	0.05034903	0.03546001
2020	T7 single construction - DSL	PM2.5	0.081887296	0.075574742	0.066092105	0.059596851	0.056440182	0.054456753	0.053060803	0.052207715	0.051873983	0.0520493	0.052732627	0.053240188	0.053240188	0.03546001
2020	T7 SWCV - DSL	PM2.5	0.056133548	0.05344977	0.049371065	0.046540437	0.045156894	0.04429217	0.043687419	0.043324016	0.043191305	0.043283369	0.043546001	0.043546001	0.043546001	0.03546001
2020	T7 tractor - DSL	PM2.5	0.083386464	0.078033869	0.070703942	0.06576231	0.062695156	0.060468081	0.058735734	0.0574089	0.056432778	0.055771839	0.055402319	0.055317068	0.055317068	0.03546001
2020	T7 tractor construction - DSL	PM2.5	0.092855729	0.086278292	0.07645598	0.070143065	0.066486101	0.064113331	0.062481458	0.061518855	0.061177482	0.06124957	0.062259012	0.06273425	0.06273425	0.03546001
2020	T7 utility - DSL	PM2.5	0.041232555	0.040562569	0.039224076	0.039440853	0.039814223	0.038794424	0.038555503	0.038530884	0.038171832	0.038012757	0.037896618	0.037803085	0.037803085	0.03546001
2020	T7IS - GAS	PM2.5	0.0370111	0.03532566	0.03389923	0.033200064	0.032773698	0.032525048	0.032335538	0.03222426	0.032177364	0.03216117	0.03218144	0.032240312	0.032240312	0.03546001
2020	UBUS - DSL	PM2.5	0.37099321	0.061165705	0.368486901	0.565449701	0.367015033	0.569262694	0.366122704	0.465615687	0.365566697	0.448368052	0.365214463	0.437837339	0.364919881	0.03546001
2020	UBUS - GAS	PM2.5	0.124735624	0.059936891	0.118881505	0.059866364	0.11534271	0.059848694	0.114111781	0.059880933	0.115183877	0.059967864	0.118587755	0.060123216	0.124314835	0.03546001

Year	Vehicle Type	EMFAC2011 Vehicle Type	Pollutant	Emission Factor - BAU (g/mile)													
				05 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	70 MPH
2025	All Other Buses - DSL	PM2.5	0.065275116	0.06463067	0.063818765	0.063283976	0.062884537	0.062565591	0.062300076	0.062072631	0.061873697	0.061696915	0.061537843	0.061463904	0.061463904	0.058860017	
2025	LDA - DSL	PM2.5	0.020298727	0.019922116	0.01958024	0.019307369	0.019121929	0.018986517	0.018883968	0.018804062	0.018742080	0.018695275	0.018695275	0.018695275	0.018710697	0.018710697	
2025	LDA - GAS	PM2.5	0.02179397	0.020435112	0.019630786	0.019139734	0.018833259	0.018640716	0.01852259	0.018456904	0.018432299	0.018444697	0.018496149	0.018595421	0.018668131	0.018668131	
2025	LDTL - DSL	PM2.5	0.031712764	0.029063574	0.027005918	0.025486801	0.024468104	0.023756407	0.023253754	0.022905746	0.022683279	0.022574771	0.022468144	0.022498937	0.023149104	0.023149104	
2025	LDTL - GAS	PM2.5	0.021791496	0.020436033	0.019633049	0.019142406	0.018835296	0.018643202	0.018524823	0.018458849	0.018433928	0.018445958	0.018496497	0.018595582	0.01866787	0.01866787	
2025	LDLT - DSL	PM2.5	0.025886566	0.024844718	0.023803893	0.022939861	0.022348181	0.021907637	0.021564065	0.021287017	0.021057873	0.020866458	0.020779312	0.020779312	0.020779658	0.020779658	
2025	LDLT - GAS	PM2.5	0.021654752	0.020342545	0.019565866	0.019091713	0.018795799	0.018608999	0.018495856	0.018432448	0.018408707	0.018420696	0.018470399	0.018566282	0.018636508	0.018636508	
2025	LHDI - DSL	PM2.5	0.078507056	0.068780925	0.061622414	0.056474558	0.052842203	0.050431596	0.04879443	0.047695862	0.047005009	0.046656	0.046630938	0.046630938	0.046630938	0.046630938	
2025	LHDI - GAS	PM2.5	0.041635748	0.039086208	0.037631637	0.036770886	0.036245526	0.035917727	0.035711848	0.035585589	0.035515431	0.035489222	0.035502608	0.035502608	0.035502608	0.035502608	
2025	LHDI - DSL	PM2.5	0.060671095	0.058658088	0.056072751	0.053733889	0.051867611	0.050599376	0.04967341	0.048972318	0.048430007	0.048007735	0.047683291	0.047683291	0.047683291	0.047683291	
2025	LHDI - GAS	PM2.5	0.047115348	0.044558541	0.043099824	0.042236619	0.041709761	0.041381028	0.041174563	0.041047944	0.040975785	0.040951302	0.040964727	0.040964727	0.040964727	0.040964727	
2025	MCV - GAS	PM2.5	0.014006659	0.011448324	0.009914007	0.008964768	0.008366527	0.007989271	0.007759707	0.007637122	0.007601069	0.007645542	0.007772727	0.008017504	0.008192026	0.008192026	
2025	MDV - DSL	PM2.5	0.020555236	0.020182458	0.019819333	0.019520777	0.019316822	0.019165635	0.019048553	0.01895504	0.018878735	0.018815603	0.018789738	0.018794423	0.018794423	0.018794423	
2025	MDV - GAS	PM2.5	0.015145093	0.013972699	0.012615633	0.010657775	0.098783108	0.094632544	0.092073296	0.090928783	0.091106555	0.0925484	0.095216501	0.099335045	0.104383116	0.104383116	
2025	MH - GAS	PM2.5	0.0658035	0.063228746	0.061759875	0.060890662	0.060360137	0.060029115	0.059821212	0.059693712	0.059622864	0.059596398	0.059609916	0.059665649	0.059773092	0.059773092	
2025	Motor Coach - DSL	PM2.5	0.067911812	0.06700249	0.06585688	0.065102285	0.064538671	0.064088635	0.063713988	0.063393061	0.063112362	0.06286292	0.062638467	0.062534138	0.062534138	0.058860017	
2025	OBUS - DSL	PM2.5	0.065935119	0.063311654	0.061814908	0.060929199	0.060388605	0.060051302	0.059839454	0.059709534	0.059637341	0.059610373	0.059624147	0.059680938	0.05979042	0.05979042	
2025	PTO - DSL	PM2.5	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	0.00568399	
2025	SBUS - DSL	PM2.5	0.331657077	0.330777916	0.329633907	0.328848795	0.328282488	0.327867147	0.327557837	0.327334862	0.327185962	0.327102984	0.32708023	0.327090099	0.322200092	0.322200092	
2025	SBUS - GAS	PM2.5	0.326880021	0.32477389	0.323572294	0.322861242	0.322427251	0.322156462	0.321986389	0.321882089	0.321824132	0.321802482	0.32181354	0.321895324	0.321895324	0.321895324	
2025	T6 Ag - DSL	PM2.5	0.065965731	0.065251907	0.064352596	0.063760235	0.063317795	0.062965413	0.062670414	0.062418484	0.062198134	0.06200232	0.061826123	0.061744224	0.061744224	0.058860017	
2025	T6 CAIRP heavy - DSL	PM2.5	0.064084103	0.063559303	0.062898134	0.062462633	0.062137353	0.061877622	0.061661402	0.061476184	0.061314184	0.061170223	0.061040683	0.060980472	0.060980472	0.058860017	
2025	T6 CAIRP small - DSL	PM2.5	0.063703607	0.063217031	0.062604019	0.062200237	0.061898649	0.061557363									

PM2.5 Emissions All Years

Emissions (tons)

2011

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00003	0.00021	0.00082	0.00759	0.00370	0.00354	0.00528	0.00338	0.00546	0.00523	0.01121	0.01488	0.00255	0.00009	0.06
0.00000	0.00095	0.00389	0.03924	0.01849	0.01684	0.02428	0.01510	0.02342	0.02119	0.04231	0.05530	0.01017	0.00277	0.27
0.00626	0.00000	0.08598	0.95828	0.50406	0.51062	0.80627	0.53807	0.87322	0.80549	1.59415	2.00582	0.34439	0.08487	9.12
0.00000	0.00000	0.00000	0.00671	0.00283	0.00232	0.00302	0.00170	0.00241	0.00201	0.00371	0.00451	0.00077	0.00020	0.03
0.00112	0.00907	0.05617	0.00000	0.12508	0.10912	0.15380	0.09444	0.14437	0.12759	0.24486	0.30123	0.05085	0.01236	1.43
0.00000	0.00000	0.00000	0.00002	0.00000	0.00051	0.00060	0.00031	0.00039	0.00030	0.00050	0.00056	0.00009	0.00002	0.00
0.00538	0.04031	0.25171	3.84441	2.48987	0.00000	0.48421	0.28473	0.42449	0.36997	0.70429	0.86152	0.14463	0.03493	9.94
0.00007	0.00052	0.00300	0.04049	0.02447	0.02722	0.00000	0.28091	0.35578	0.26782	0.45074	0.00000	0.00000	0.00000	1.45
0.00027	0.00176	0.00947	0.12214	0.07154	0.07893	0.13452	0.00000	0.10978	0.09376	0.17671	0.00000	0.00000	0.00000	0.80
0.00003	0.00020	0.00111	0.01477	0.00878	0.00966	0.01614	0.01120	0.00000	0.08016	0.12439	0.00000	0.00000	0.00000	0.27
0.00004	0.00023	0.00119	0.01475	0.00833	0.00887	0.01457	0.01009	0.01705	0.00000	0.02332	0.00000	0.00000	0.00000	0.10
0.00005	0.00033	0.00186	0.02453	0.01451	0.01591	0.02650	0.01833	0.03049	0.02859	0.00000	0.02545	0.00356	0.00075	0.19
0.00000	0.00000	0.00002	0.00032	0.00019	0.00020	0.00034	0.00024	0.00041	0.00039	0.00080	0.00000	0.00483	0.00086	0.01
0.00292	0.01675	0.08028	0.94028	0.50869	0.52617	0.85153	0.58946	1.01054	1.00881	2.22386	2.99181	0.00000	0.04823	10.80
0.00000	0.00001	0.00004	0.00048	0.00028	0.00030	0.00050	0.00034	0.00057	0.00053	0.00107	0.00137	0.00024	0.00000	0.01
0.00000	0.00071	0.00348	0.03428	0.01525	0.01448	0.02203	0.01429	0.02303	0.02170	0.04521	0.06151	0.01166	0.00000	0.27
0.00000	0.00000	0.00004	0.00047	0.00027	0.00028	0.00046	0.00032	0.00052	0.00049	0.00097	0.00122	0.00021	0.00005	0.01
0.00010	0.00047	0.00215	0.02511	0.01346	0.01400	0.02341	0.01725	0.03218	0.03230	0.06451	0.00986	0.00169	0.00000	0.24
0.00000	0.00000	0.00000	0.00421	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
0.00000	0.00003	0.00000	0.00232	0.00133	0.00143	0.00236	0.00162	0.00269	0.00251	0.00500	0.00630	0.00108	0.00026	0.03
0.00000	0.00061	0.00301	0.03003	0.01363	0.01312	0.02006	0.01295	0.02052	0.01880	0.03777	0.04934	0.00000	0.00000	0.22
0.00009	0.00030	0.00172	0.02316	0.01384	0.01528	0.02555	0.00000	0.03248	0.02948	0.05771	0.07196	0.01224	0.00298	0.29
0.00000	0.00003	0.00000	0.01793	0.00905	0.00699	0.00819	0.00469	0.00683	0.00571	0.01047	0.01262	0.00216	0.00055	0.09
0.00000	0.00002	0.00011	0.00000	0.01678	0.01562	0.01824	0.00887	0.01225	0.01019	0.01865	0.02256	0.00389	0.00101	0.13
0.00000	0.00002	0.00010	0.00141	0.00000	0.01173	0.01695	0.00874	0.01102	0.00896	0.01652	0.01995	0.00341	0.00086	0.10
0.00002	0.00012	0.00068	0.00920	0.00550	0.00000	0.25832	0.14965	0.16984	0.10809	0.17534	0.19235	0.02951	0.00674	1.11
0.00032	0.00033	0.00191	0.02567	0.01535	0.01694	0.00000	0.29131	0.41359	0.27947	0.40756	0.43760	0.06801	0.01563	1.97
0.00078	0.00557	0.00525	0.07061	0.04221	0.04659	0.07791	0.00000	2.20484	1.74241	2.43071	2.15042	0.30517	0.06584	9.15
0.00000	0.00003	0.00014	0.00026	0.00016	0.00017	0.00029	0.00020	0.00000	0.00440	0.00757	0.00707	0.00091	0.00019	0.02
0.00001	0.00006	0.00039	0.00519	0.00049	0.00054	0.00090	0.00062	0.00103	0.00000	0.03831	0.04077	0.00488	0.00084	0.09
0.00002	0.00016	0.00101	0.01448	0.00866	0.00145	0.00243	0.00168	0.00280	0.00262	0.00000	0.08351	0.01236	0.00225	0.13
0.00001	0.00004	0.00023	0.00349	0.00222	0.00245	0.00066	0.00046	0.00076	0.00072	0.00143	0.00000	0.00624	0.00130	0.02
0.00012	0.00079	0.00435	0.05852	0.03639	0.04152	0.06942	0.00842	0.01401	0.01313	0.02621	0.03309	0.00000	0.00000	0.31
0.00001	0.00009	0.00040	0.00427	0.00228	0.00236	0.00380	0.00262	0.00449	0.00446	0.00966	0.01280	0.00219	0.00016	0.05
0.00000	0.00052	0.00272	0.03428	0.01966	0.02113	0.03472	0.02380	0.03934	0.03674	0.07331	0.09274	0.01597	0.00394	0.40
0.00005	0.00028	0.00141	0.01689	0.00921	0.00959	0.01581	0.01131	0.01937	0.01815	0.00143	0.00181	0.00031	0.00008	0.11
0.00098	0.00493	0.02350	0.28188	0.15653	0.16887	0.29146	0.21932	0.41222	0.41446	0.82762	0.06534	0.01120	0.00274	2.88
0.00032	0.00177	0.00790	0.09347	0.05238	0.05649	0.09646	0.07119	0.13054	0.13829	0.29541	0.37294	0.00357	0.00087	1.32
0.00001	0.00004	0.00019	0.00193	0.00101	0.00103	0.00166	0.00116	0.00203	0.00208	0.00466	0.00628	0.00108	0.00002	0.02
0.00000	0.00022	0.00107	0.01011	0.00425	0.00389	0.00581	0.00374	0.00608	0.00589	0.01276	0.01819	0.00334	0.00082	0.08
0.00000	0.00000	0.00289	0.03389	0.01535	0.01308	0.01918	0.01243	0.02013	0.01917	0.04054	0.05614	0.01084	0.00283	0.25
0.00002	0.00017	0.00000	0.19593	0.10090	0.08220	0.10303	0.06173	0.09481	0.08534	0.17119	0.22699	0.04248	0.01169	1.18
0.00000	0.00002	0.00012	0.00000	0.03214	0.03055	0.03763	0.01946	0.02774	0.02333	0.04246	0.04991	0.00818	0.00197	0.27
0.00001	0.00004	0.00025	0.00343	0.00000	0.10524	0.14923	0.07343	0.08725	0.06837	0.12113	0.13916	0.02247	0.00540	0.78
0.00002	0.00015	0.00087	0.01168	0.00698	0.00000	0.59448	0.34280	0.38580	0.24272	0.39091	0.42715	0.06542	0.01498	2.48
0.00003	0.00002	0.00009	0.00116	0.00069	0.00077	0.00000	0.00593	0.00864	0.00623	0.00980	0.01099	0.00175	0.00041	0.05
0.00000	0.00000	0.00001	0.00008	0.00005	0.00005	0.00008	0.00000	0.00651	0.00505	0.00673	0.00560	0.00076	0.00016	0.03
0.00002	0.00018	0.00104	0.00088	0.00053	0.00058	0.00097	0.00067	0.00000	0.05973	0.10010	0.08741	0.01035	0.00000	0.26
0.00019	0.00117	0.00611	0.07827	0.04704	0.05511	0.10247	0.07573	0.12601	0.00652	0.01302	0.01644	0.00282	0.00000	0.53
0.00000	0.00000	0.00247	0.02800	0.01174	0.00916	0.01276	0.00788	0.01208	0.01090	0.02202	0.02954	0.00561	0.00000	0.15

PM2.5
59.47 2011 Tons/Year

Emissions (Tons)

2020

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00000	0.00001	0.00007	0.00084	0.00048	0.00054	0.00088	0.00059	0.00099	0.00092	0.00185	0.00231	0.00039	0.00008	0.01
0.00000	0.00013	0.00236	0.00951	0.01372	0.00602	0.02209	0.00655	0.02232	0.01003	0.03833	0.02469	0.00752	0.00104	0.16
0.00000	0.01614	0.05924	1.23265	0.42248	0.82703	0.80156	0.94820	0.92293	1.54326	1.75398	4.09594	0.36968	0.18058	13.17
0.00000	0.00000	0.00012	0.00013	0.00064	0.00008	0.00095	0.00009	0.00089	0.00013	0.00144	0.00033	0.00027	0.00001	0.01
0.00000	0.00395	0.00546	0.29778	0.03886	0.20076	0.07373	0.23545	0.08498	0.39825	0.16186	1.11533	0.03417	0.05080	2.70
0.00000	0.00001	0.00008	0.00064	0.00052	0.00041	0.00091	0.00044	0.00097	0.00068	0.00175	0.00167	0.00036	0.00007	0.01

0.00000	0.00505	0.02602	0.38859	0.18562	0.25988	0.35215	0.29356	0.40541	0.46529	0.77022	1.18657	0.16230	0.05096	4.55
0.00010	0.00250	0.00428	0.15234	0.02928	0.08418	0.05402	0.08149	0.06087	0.11378	0.11345	0.00000	0.00000	0.00000	0.70
0.00011	0.00041	0.00474	0.03209	0.03253	0.02159	0.06037	0.02443	0.06894	0.03845	0.13163	0.00000	0.00000	0.00000	0.42
0.00003	0.00048	0.00121	0.03133	0.00839	0.01827	0.01565	0.01846	0.01775	0.02666	0.03322	0.00000	0.00000	0.00000	0.17
0.00002	0.00008	0.00073	0.00596	0.00506	0.00402	0.00944	0.00454	0.01075	0.00715	0.02033	0.00000	0.00000	0.00000	0.07
0.00000	0.00008	0.00042	0.00446	0.00243	0.00262	0.00418	0.00279	0.00463	0.00432	0.00875	0.01107	0.00192	0.00049	0.05
0.00000	0.00006	0.00057	0.00395	0.00357	0.00251	0.00611	0.00273	0.00648	0.00419	0.01156	0.01031	0.00233	0.00043	0.05
0.00000	0.00324	0.01577	0.24872	0.11249	0.16637	0.21342	0.18835	0.24571	0.29987	0.46689	0.77021	0.09839	0.03324	2.86
0.00000	0.00010	0.00009	0.00662	0.00063	0.00337	0.00116	0.00294	0.00132	0.00404	0.00246	0.00934	0.00051	0.00000	0.03
0.00002	0.00004	0.00079	0.00331	0.00574	0.00223	0.01136	0.00253	0.01398	0.00399	0.02896	0.01002	0.00678	0.00000	0.09
0.00000	0.00001	0.00006	0.00071	0.00040	0.00045	0.00074	0.00050	0.00083	0.00077	0.00155	0.00193	0.00032	0.00006	0.01
0.00001	0.00005	0.00032	0.00379	0.00222	0.00252	0.00418	0.00285	0.00478	0.00447	0.00900	0.01120	0.00189	0.00000	0.05
0.00000	0.00000	0.00000	0.00249	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
0.00002	0.00022	0.00104	0.01661	0.00741	0.01026	0.01400	0.01089	0.01603	0.01667	0.03016	0.04109	0.00631	0.00172	0.17
0.00001	0.00011	0.00064	0.00843	0.00457	0.00572	0.00864	0.00589	0.00991	0.00926	0.01866	0.02320	0.00000	0.00000	0.10
0.00013	0.00073	0.00339	0.02968	0.01480	0.01502	0.02261	0.01434	0.02317	0.02161	0.04508	0.05777	0.00973	0.00049	0.26
0.00000	0.00001	0.00006	0.00065	0.00038	0.00043	0.00071	0.00048	0.00081	0.00076	0.00152	0.00189	0.00032	0.00007	0.01
0.00001	0.00004	0.00023	0.00264	0.00153	0.00173	0.00288	0.00200	0.00344	0.00333	0.00700	0.00892	0.00150	0.00022	0.04
0.00001	0.00005	0.00028	0.00317	0.00181	0.00202	0.00329	0.00222	0.00372	0.00349	0.00709	0.00887	0.00149	0.00030	0.04
0.00006	0.00039	0.00242	0.02792	0.01604	0.01814	0.03035	0.02116	0.03691	0.03627	0.07756	0.09971	0.01679	0.00193	0.39
0.00014	0.00096	0.00601	0.07117	0.04147	0.04681	0.07711	0.05222	0.08740	0.08149	0.16384	0.20364	0.03430	0.00769	0.87
0.00054	0.00362	0.02245	0.26114	0.15078	0.17074	0.28504	0.19766	0.34210	0.33272	0.70324	0.89845	0.15132	0.02090	3.54
0.00000	0.00001	0.00003	0.00038	0.00022	0.00025	0.00041	0.00028	0.00047	0.00044	0.00088	0.00109	0.00018	0.00004	0.00
0.00000	0.00002	0.00013	0.00151	0.00087	0.00099	0.00165	0.00114	0.00197	0.00191	0.00401	0.00511	0.00086	0.00013	0.02
0.00001	0.00004	0.00022	0.00232	0.00127	0.00138	0.00222	0.00148	0.00247	0.00232	0.00478	0.00603	0.00102	0.00017	0.03
0.00000	0.00001	0.00005	0.00063	0.00037	0.00042	0.00069	0.00047	0.00079	0.00074	0.00149	0.00185	0.00031	0.00008	0.01
0.00002	0.00011	0.00069	0.00823	0.00482	0.00547	0.00905	0.00615	0.01033	0.00966	0.01947	0.02423	0.00409	0.00000	0.10
0.00007	0.00042	0.00193	0.01684	0.00835	0.00843	0.01258	0.00789	0.01260	0.01163	0.02408	0.03072	0.00517	0.00009	0.14
0.00008	0.00050	0.00299	0.03440	0.01964	0.02181	0.03545	0.02375	0.03941	0.03650	0.07304	0.09062	0.01526	0.00276	0.40
0.00000	0.00002	0.00015	0.00169	0.00096	0.00107	0.00174	0.00117	0.00195	0.00182	0.00368	0.00460	0.00077	0.00013	0.02
0.00007	0.00047	0.00290	0.03419	0.01983	0.02230	0.03661	0.02472	0.04129	0.03841	0.07708	0.09572	0.01612	0.00342	0.41
0.00003	0.00020	0.00119	0.01366	0.00779	0.00865	0.01407	0.00943	0.01568	0.01455	0.02918	0.03625	0.00611	0.00109	0.16
0.00000	0.00001	0.00004	0.00049	0.00028	0.00031	0.00049	0.00033	0.00054	0.00049	0.00097	0.00120	0.00020	0.00003	0.01
0.00000	0.00002	0.00009	0.00106	0.00060	0.00066	0.00105	0.00070	0.00114	0.00104	0.00206	0.00254	0.00043	0.00007	0.01
0.00002	0.00013	0.00067	0.00680	0.00369	0.00397	0.00631	0.00416	0.00686	0.00639	0.01301	0.01634	0.00275	0.00037	0.07
0.00008	0.00053	0.00309	0.03467	0.01966	0.02181	0.03549	0.02386	0.03987	0.03730	0.07563	0.09457	0.01593	0.00283	0.41
0.00001	0.00007	0.00040	0.00431	0.00241	0.00266	0.00430	0.00289	0.00482	0.00452	0.00923	0.01159	0.00195	0.00033	0.05
0.00001	0.00008	0.00047	0.00531	0.00305	0.00341	0.00559	0.00378	0.00633	0.00594	0.00979	0.01218	0.00205	0.00052	0.06
0.00006	0.00041	0.00239	0.02689	0.01516	0.01668	0.02691	0.01793	0.02963	0.02739	0.05481	0.06804	0.01146	0.00185	0.30
0.00001	0.00006	0.00034	0.00379	0.00212	0.00233	0.00378	0.00253	0.00424	0.00398	0.00813	0.01021	0.00172	0.00024	0.04
0.00000	0.00000	0.00001	0.00008	0.00005	0.00006	0.00009	0.00006	0.00011	0.00010	0.00020	0.00024	0.00004	0.00001	0.00
0.00000	0.00001	0.00005	0.00056	0.00033	0.00037	0.00061	0.00042	0.00070	0.00065	0.00132	0.00164	0.00028	0.00000	0.01
0.00007	0.00081	0.00320	0.05942	0.02280	0.03593	0.04311	0.03736	0.04933	0.05659	0.09284	0.13839	0.01943	0.00000	0.56
0.00001	0.00004	0.00047	0.00289	0.00329	0.00195	0.00617	0.00221	0.00713	0.00347	0.01384	0.00872	0.00304	0.00000	0.05

PM2.5
33.37 2020 Tons/Year

Emissions (Tons)

2035

5MPH	10MPH	15MPH	20MPH	25MPH	30MPH	35MPH	40MPH	45MPH	50MPH	55MPH	60MPH	65MPH	70MPH	ALL SPEEDS
0.00000	0.00004	0.00013	0.00094	0.00052	0.00078	0.00136	0.00106	0.00118	0.00132	0.00201	0.00225	0.00026	0.00008	0.01
0.00000	0.00064	0.00228	0.01627	0.00902	0.01339	0.02330	0.01809	0.02022	0.02247	0.03428	0.03849	0.00440	0.00148	0.20
0.00000	0.05002	0.17105	1.19407	0.65470	0.96543	1.67515	1.29950	1.45348	1.61787	2.47638	2.79021	0.32051	0.10821	14.78
0.00000	0.00000	0.00001	0.00008	0.00004	0.00006	0.00010	0.00008	0.00008	0.00009	0.00014	0.00016	0.00002	0.00001	0.00
0.00000	0.00395	0.01352	0.09441	0.05176	0.07633	0.13245	0.10274	0.11492	0.12791	0.19578	0.22059	0.02534	0.00855	1.17
0.00000	0.00006	0.00022	0.00155	0.00084	0.00122	0.00210	0.00162	0.00179	0.00197	0.00299	0.00335	0.00038	0.00013	0.02
0.00000	0.02434	0.08337	0.58274	0.31976	0.47178	0.81887	0.63537	0.71075	0.79117	1.21097	1.36431	0.15669	0.05289	7.22
0.00036	0.00250	0.00817	0.05440	0.02862	0.04094	0.06944	0.05299	0.05862	0.06485	0.09914	0.00000	0.00000	0.00000	0.48
0.00011	0.00079	0.00279	0.01981	0.01098	0.01631	0.02843	0.02211	0.02477	0.02759	0.04222	0.00000	0.00000	0.00000	0.20
0.00012	0.00090	0.00315	0.02195	0.01192	0.01742	0.02998	0.02308	0.02562	0.02830	0.04300	0.00000	0.00000	0.00000	0.21
0.00004	0.00028	0.00098	0.00700	0.00389	0.00578	0.01009	0.00785	0.00880	0.00980	0.01499	0.00000	0.00000	0.00000	0.07
0.00000	0.00038	0.00113	0.00713	0.00363	0.00507	0.00849	0.00644	0.00711	0.00789	0.01214	0.01387	0.00163	0.00056	0.08
0.00000	0.00029	0.00105	0.00748	0.00415	0.00615	0.01069	0.00830	0.00927	0.01029	0.01568	0.01760	0.00201	0.00068	0.09
0.00000	0.01138	0.03885	0.27083	0.14836	0.21865	0.37924	0.29412	0.32892	0.36610	0.56037	0.63144	0.07254	0.02449	3.35
0.00001	0.00009	0.00027	0.00175	0.00092	0.00132	0.00224	0.00173	0.00195	0.00220	0.00347	0.00407	0.00049	0.00000	0.02

0.00002	0.00014	0.00049	0.00349	0.00195	0.00290	0.00507	0.00395	0.00442	0.00493	0.00754	0.00848	0.00097	0.00000	0.04
0.00000	0.00004	0.00013	0.00095	0.00053	0.00079	0.00138	0.00107	0.00120	0.00133	0.00203	0.00227	0.00026	0.00008	0.01
0.00004	0.00027	0.00096	0.00686	0.00383	0.00570	0.00996	0.00776	0.00870	0.00969	0.01483	0.01667	0.00191	0.00000	0.09
0.00000	0.00000	0.00000	0.00172	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00
0.00009	0.00067	0.00245	0.01776	0.00997	0.01492	0.02613	0.02039	0.02287	0.02549	0.03898	0.04380	0.00493	0.00166	0.23
0.00006	0.00045	0.00162	0.01175	0.00660	0.00988	0.01732	0.01351	0.01517	0.01690	0.02586	0.02906	0.00000	0.00000	0.15
0.00003	0.00023	0.00082	0.00590	0.00329	0.00491	0.00856	0.00666	0.00745	0.00827	0.01262	0.01416	0.00162	0.00052	0.08
0.00001	0.00004	0.00015	0.00110	0.00062	0.00092	0.00160	0.00125	0.00140	0.00155	0.00237	0.00266	0.00030	0.00010	0.01
0.00002	0.00013	0.00047	0.00336	0.00188	0.00281	0.00491	0.00382	0.00428	0.00476	0.00727	0.00816	0.00093	0.00030	0.04
0.00003	0.00025	0.00090	0.00646	0.00361	0.00538	0.00940	0.00731	0.00818	0.00909	0.01388	0.01557	0.00178	0.00057	0.08
0.00021	0.00161	0.00580	0.04187	0.02342	0.03494	0.06103	0.04749	0.05316	0.05911	0.09021	0.10126	0.01157	0.00375	0.54
0.00080	0.00624	0.02248	0.16216	0.09067	0.13526	0.23620	0.18379	0.20571	0.22869	0.34899	0.39170	0.04475	0.01448	2.07
0.00200	0.01553	0.05602	0.40422	0.22610	0.33738	0.58931	0.45865	0.51343	0.57088	0.87132	0.97801	0.11174	0.03623	5.17
0.00000	0.00002	0.00009	0.00063	0.00035	0.00053	0.00092	0.00072	0.00080	0.00089	0.00136	0.00153	0.00017	0.00006	0.01
0.00001	0.00007	0.00027	0.00193	0.00108	0.00161	0.00281	0.00219	0.00245	0.00273	0.00416	0.00467	0.00053	0.00017	0.02
0.00001	0.00005	0.00016	0.00113	0.00062	0.00092	0.00159	0.00123	0.00138	0.00154	0.00238	0.00268	0.00031	0.00009	0.01
0.00001	0.00004	0.00014	0.00103	0.00057	0.00086	0.00150	0.00117	0.00131	0.00146	0.00223	0.00250	0.00029	0.00009	0.01
0.00007	0.00051	0.00180	0.01290	0.00719	0.01071	0.01872	0.01458	0.01635	0.01821	0.02786	0.03134	0.00359	0.00000	0.16
0.00001	0.00005	0.00018	0.00126	0.00069	0.00102	0.00177	0.00137	0.00152	0.00168	0.00255	0.00286	0.00033	0.00010	0.02
0.00025	0.00188	0.00666	0.04739	0.02624	0.03883	0.06736	0.05211	0.05802	0.06420	0.09756	0.10929	0.01249	0.00375	0.59
0.00002	0.00012	0.00044	0.00312	0.00173	0.00255	0.00443	0.00343	0.00381	0.00422	0.00641	0.00718	0.00082	0.00025	0.04
0.00029	0.00225	0.00800	0.05715	0.03171	0.04701	0.08167	0.06326	0.07052	0.07811	0.11881	0.13315	0.01521	0.00464	0.71
0.00010	0.00074	0.00263	0.01872	0.01037	0.01534	0.02661	0.02059	0.02292	0.02536	0.03854	0.04317	0.00493	0.00148	0.23
0.00000	0.00003	0.00009	0.00063	0.00035	0.00051	0.00089	0.00069	0.00076	0.00085	0.00128	0.00144	0.00016	0.00005	0.01
0.00001	0.00007	0.00026	0.00183	0.00101	0.00150	0.00259	0.00200	0.00223	0.00247	0.00374	0.00419	0.00048	0.00014	0.02
0.00004	0.00026	0.00087	0.00587	0.00318	0.00464	0.00797	0.00614	0.00685	0.00762	0.01172	0.01323	0.00151	0.00040	0.07
0.00032	0.00246	0.00875	0.06257	0.03475	0.05155	0.08960	0.06944	0.07744	0.08582	0.13058	0.14636	0.01672	0.00514	0.78
0.00004	0.00031	0.00109	0.00777	0.00431	0.00639	0.01111	0.00861	0.00960	0.01064	0.01619	0.01814	0.00207	0.00063	0.10
0.00005	0.00037	0.00130	0.00920	0.00508	0.00750	0.01299	0.01005	0.01120	0.01241	0.01641	0.01844	0.00211	0.00071	0.11
0.00017	0.00130	0.00458	0.03256	0.01802	0.02666	0.04622	0.03574	0.03978	0.04401	0.06686	0.07488	0.00856	0.00255	0.40
0.00003	0.00024	0.00085	0.00607	0.00336	0.00497	0.00861	0.00665	0.00741	0.00819	0.01244	0.01393	0.00159	0.00047	0.07
0.00000	0.00001	0.00002	0.00014	0.00008	0.00012	0.00020	0.00016	0.00017	0.00019	0.00030	0.00033	0.00004	0.00001	0.00
0.00001	0.00004	0.00013	0.00095	0.00053	0.00078	0.00136	0.00106	0.00118	0.00132	0.00202	0.00227	0.00026	0.00000	0.01
0.00018	0.00142	0.00500	0.03548	0.01976	0.02943	0.05138	0.04001	0.04486	0.05003	0.07667	0.08646	0.00993	0.00000	0.45
0.00003	0.00019	0.00068	0.00486	0.00271	0.00404	0.00706	0.00550	0.00617	0.00687	0.01051	0.01182	0.00135	0.00000	0.06 PM2.5

40.30 2035 Tons/Year

Mobile Emissions Calculations

VMT input data – West Sacramento

Existing (2014 conditions)

Speed Range	Daily VMT that has an Origin and/or Destination in City of West Sacramento				Total
	Both Trip Ends Internal	% of Total	One Trip End Internal and One External	% of Total	
0.00-5.00	0	0.01%	357	99.99%	357
5.01-10.00	184	7.16%	2,380	92.84%	2,564
10.01-15.00	258	1.76%	14,455	98.24%	14,714
15.01-20.00	17,973	9.09%	179,850	90.91%	197,823
20.01-25.00	17,423	14.73%	100,828	85.27%	118,252
25.01-30.00	19,805	15.17%	110,726	84.83%	130,532
30.01-35.00	31,618	14.49%	186,641	85.51%	218,259
35.01-40.00	9,967	6.59%	141,342	93.41%	151,310
40.01-45.00	12,919	5.13%	238,858	94.87%	251,777
45.01-50.00	1,383	0.59%	234,567	99.41%	235,950
50.01-55.00	1,210	0.26%	469,956	99.74%	471,166
55.01-60.00	1,193	0.20%	593,631	99.80%	594,824
60.01-65.00	0	0.00%	101,943	100.00%	101,943
65.01-70.00	0	0.00%	24,940	100.00%	24,940
Total	113,934		2,400,476		2,514,411

2020

Speed Range	Daily VMT that has an Origin and/or Destination in City of West Sacramento				Total
	Both Trip Ends Internal	% of Total	One Trip End Internal and One External	% of Total	
0.00-5.00	0	0.00%	390	0.02%	390
5.01-10.00	199	0.16%	2,459	0.10%	2,658
10.01-15.00	350	0.29%	16,833	0.66%	17,183
15.01-20.00	19,380	15.81%	188,402	7.43%	207,783
20.01-25.00	18,490	15.08%	104,343	4.11%	122,832
25.01-30.00	21,597	17.62%	118,560	4.68%	140,157
30.01-35.00	34,462	28.11%	198,337	7.82%	232,799
35.01-40.00	10,611	8.66%	148,052	5.84%	158,663
40.01-45.00	13,459	10.98%	253,368	9.99%	266,827
45.01-50.00	1,580	1.29%	247,980	9.78%	249,560
50.01-55.00	1,307	1.07%	501,337	19.77%	502,644
55.01-60.00	1,150	0.94%	623,848	24.60%	624,997
60.01-65.00	0	0.00%	105,265	4.15%	105,265
65.01-70.00	0	0.00%	26,512	1.05%	26,512
Total	122,586		2,535,685		2,658,271

2035

Speed Range	Daily VMT that has an Origin and/or Destination in City of West Sacramento				Total
	Both Trip Ends Internal	% of Total	One Trip End Internal and One External	% of Total	
0.00-5.00	213	0.10%	1,425	0.03%	1,638
5.01-10.00	609	0.28%	12,247	0.29%	12,856
10.01-15.00	1,532	0.71%	45,351	1.07%	46,883
15.01-20.00	32,100	14.92%	308,597	7.31%	340,697
20.01-25.00	29,065	13.51%	162,529	3.85%	191,593
25.01-30.00	35,712	16.60%	251,413	5.96%	287,125
30.01-35.00	67,404	31.34%	435,944	10.33%	503,347
35.01-40.00	21,759	10.12%	371,204	8.79%	392,963
40.01-45.00	16,620	7.73%	424,469	10.06%	441,089
45.01-50.00	5,696	2.65%	485,937	11.51%	491,633
50.01-55.00	3,715	1.73%	748,293	17.73%	752,008
55.01-60.00	676	0.31%	844,276	20.00%	844,951
60.01-65.00	0	0.00%	96,540	2.29%	96,540
65.01-70.00	0	0.00%	32,466	0.77%	32,466
Total	215,101		4,220,690		4,435,791

EMFAC Fleet Distribution for Yolo County

EMFAC Database name	VMT			Percent			Passenger Vehicles Only	2011	2020	2035
	Existing	Year 2020	Year 2035	2011	2020	2035				
All Other Buses - DSL	944	872	879	0.0%	0.0%	0.0%	LDA - DSL	61.8%	63.9%	63.07%
LDA - DSL	17,722	36,020	49,378	0.3%	0.5%	0.6%	LDA - GAS	0.0%	0.0%	0.00%
LDA - GAS	2,606,300	3,195,263	3,615,477	44.6%	47.5%	46.7%	LDT1 - DSL	8.4%	5.7%	4.99%
LDT1 - DSL	960	459	170	0.0%	0.0%	0.0%	LDT1 - GAS	0.0%	0.0%	0.07%
LDT1 - GAS	352,923	286,104	285,818	6.0%	4.3%	3.7%	LDT2 - DSL	26.0%	28.2%	30.88%
LDT2 - DSL	60	2,444	3,860	0.0%	0.0%	0.0%	LDT2 - GAS	3.8%	2.1%	1.00%
LDT2 - GAS	1,095,468	1,407,327	1,770,298	18.7%	20.9%	22.9%		100.0%	100.0%	100.0%
LHD1 - DSL	160,727	106,587	57,251	2.8%	1.6%	0.7%				
LHD1 - GAS	144,527	75,800	32,025	2.5%	1.1%	0.4%				
LHD2 - DSL	31,271	27,540	24,283	0.5%	0.4%	0.3%				
LHD2 - GAS	15,325	12,332	9,857	0.3%	0.2%	0.1%				
MCY - GAS	44,751	40,935	42,755	0.8%	0.6%	0.6%				
MDV - DSL	3,144	15,049	22,446	0.1%	0.2%	0.3%				
MDV - GAS	983,820	850,976	816,867	16.8%	12.6%	10.5%				
MH - DSL	1,798	1,388	981	0.0%	0.0%	0.0%				
MH - GAS	6,720	4,650	3,407	0.1%	0.1%	0.0%				
Motor Coach - DSL	505	683	871	0.0%	0.0%	0.0%				
OBUS - GAS	4,304	5,298	6,696	0.1%	0.1%	0.1%				
PTO - DSL	5,523	10,498	17,949	0.1%	0.2%	0.2%				
SBUS - DSL	2,706	3,266	3,210	0.0%	0.0%	0.0%				
SBUS - GAS	1,946	2,033	2,164	0.0%	0.0%	0.0%				
T6 Ag - DSL	5,551	5,497	5,497	0.1%	0.1%	0.1%				
T6 CAIRP heavy - DSL	607	821	1,047	0.0%	0.0%	0.0%				
T6 CAIRP small - DSL	1,862	2,521	3,214	0.0%	0.0%	0.0%				
T6 instate construction heavy - DSL	1,848	3,339	6,080	0.0%	0.0%	0.1%				
T6 instate construction small - DSL	12,069	21,809	39,707	0.2%	0.3%	0.5%				
T6 instate heavy - DSL	33,684	86,670	153,399	0.6%	1.3%	2.0%				
T6 instate small - DSL	92,653	235,651	383,969	1.6%	3.5%	5.0%				
T6 OOS heavy - DSL	348	471	600	0.0%	0.0%	0.0%				
T6 OOS small - DSL	1,067	1,444	1,842	0.0%	0.0%	0.0%				
T6 Public - DSL	2,887	1,922	955	0.0%	0.0%	0.0%				
T6 utility - DSL	787	862	994	0.0%	0.0%	0.0%				
T6TS - GAS	14,440	11,405	12,586	0.2%	0.2%	0.2%				
T7 Ag - DSL	1,698	1,682	1,682	0.0%	0.0%	0.0%				
T7 CAIRP - DSL	38,166	51,672	65,884	0.7%	0.8%	0.9%				
T7 CAIRP construction - DSL	1,311	2,369	4,313	0.0%	0.0%	0.1%				
T7 NNOOS - DSL	47,325	64,074	81,696	0.8%	1.0%	1.1%				
T7 NOOS - DSL	15,075	20,410	26,024	0.3%	0.3%	0.3%				
T7 other port - DSL	341	629	856	0.0%	0.0%	0.0%				
T7 POAK - DSL	884	1,255	2,493	0.0%	0.0%	0.0%				
T7 Public - DSL	5,571	6,887	7,035	0.1%	0.1%	0.1%				
T7 Single - DSL	27,814	52,870	90,395	0.5%	0.8%	1.2%				
T7 single construction - DSL	3,391	6,128	11,157	0.1%	0.1%	0.1%				
T7 SWCV - DSL	7,462	9,668	12,461	0.1%	0.1%	0.2%				
T7 tractor - DSL	25,428	34,624	44,922	0.4%	0.5%	0.6%				
T7 tractor construction - DSL	2,528	4,569	8,319	0.0%	0.1%	0.1%				
T7 utility - DSL	166	182	210	0.0%	0.0%	0.0%				
T7IS - GAS	1,916	1,433	1,686	0.0%	0.0%	0.0%				
UBUS - DSL	11,910	8,897	5,556	0.2%	0.1%	0.1%				
UBUS - GAS	3,514	4,084	4,750	0.1%	0.1%	0.1%				
Total	5,843,746	6,729,370	7,745,971							
	0	0	0							

Constants

Value	Units
907184.7	gram/ton
347	days per year
373.2417	gram/pound

EMFAC2011 Veh & Tech	EMFAC2011 Vehicle	Description	Source	EMFAC2007 Vehicle	EMFAC2007 Vehicle Code	Truck / Non-Truck Category	Truck 1 / Truck 2 / Non-Truck Category
LDA - DSL	LDA	Passenger Cars	EMFAC2011-LDV	LDA	PC	Non-Trucks	Non-Trucks
LDA - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
LDT1 - DSL	LDT1	Light-Duty Trucks (0-3750 lbs)	EMFAC2011-LDV	LDT1	T1	Non-Trucks	Non-Trucks
LDT1 - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
LDT2 - DSL	LDT2	Light-Duty Trucks (3751-5750 lbs)	EMFAC2011-LDV	LDT2	T2	Non-Trucks	Non-Trucks
LDT2 - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
LHD1 - DSL	LHD1	Light-Heavy-Duty Trucks (8501-10000 lbs)	EMFAC2011-LDV	LHDT1	T4	Trucks	Truck 1
LHD1 - GAS			EMFAC2011-LDV			Trucks	Truck 1
LHD2 - DSL	LHD2	Light-Heavy-Duty Trucks (10001-14000 lbs)	EMFAC2011-LDV	LHDT2	T5	Trucks	Truck 1
LHD2 - GAS			EMFAC2011-LDV			Trucks	Truck 1
MCY - GAS	MCY	Motorcycles	EMFAC2011-LDV	MCY	MC	Non-Trucks	Non-Trucks
MDV - DSL	MDV	Medium-Duty Trucks (5751-8500 lbs)	EMFAC2011-LDV	MDV	T3	Non-Trucks	Non-Trucks
MDV - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
MH - DSL	MH	Motor Homes	EMFAC2011-LDV	MH	MH	Non-Trucks	Non-Trucks
MH - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
T6 Ag - DSL	T6 Ag	Medium-Heavy Duty Diesel Agriculture Truck	EMFAC2011-HD	MHDT	T6	Trucks	Truck 2
T6 CAIRP heavy - DSL	T6 CAIRP heavy	Medium-Heavy Duty Diesel CA International Registration Plan Truck with GVWR>26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 CAIRP small - DSL	T6 CAIRP small	Medium-Heavy Duty Diesel CA International Registration Plan Truck with GVWR<=26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 instate construction heavy - DSL	T6 instate construction heavy	Medium-Heavy Duty Diesel instate construction Truck with GVWR>26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 instate construction small - DSL	T6 instate construction small	Medium-Heavy Duty Diesel instate construction Truck with GVWR<=26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 instate heavy - DSL	T6 instate heavy	Medium-Heavy Duty Diesel instate Truck with GVWR>26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 instate small - DSL	T6 instate small	Medium-Heavy Duty Diesel instate Truck with GVWR<=26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 OOS heavy - DSL	T6 OOS heavy	Medium-Heavy Duty Diesel Out-of-state Truck with GVWR>26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 OOS small - DSL	T6 OOS small	Medium-Heavy Duty Diesel Out-of-state Truck with GVWR<=26000 lbs	EMFAC2011-HD			Trucks	Truck 2
T6 Public - DSL	T6 Public	Medium-Heavy Duty Diesel Public Fleet Truck	EMFAC2011-HD			Trucks	Truck 2
T6 utility - DSL	T6 utility	Medium-Heavy Duty Diesel Utility Fleet Truck	EMFAC2011-HD			Trucks	Truck 2
T6TS - GAS	T6TS	Medium-Heavy Duty Gasoline Truck	EMFAC2011-LDV			Trucks	Truck 2
T7 Ag - DSL	T7 Ag	Heavy-Heavy Duty Diesel Agriculture Truck	EMFAC2011-HD			Trucks	Truck 2
T7 CAIRP - DSL	T7 CAIRP	Heavy-Heavy Duty Diesel CA International Registration Plan Truck	EMFAC2011-HD			Trucks	Truck 2
T7 CAIRP construction - DSL	T7 CAIRP construction	Heavy-Heavy Duty Diesel CA International Registration Plan Construction Truck	EMFAC2011-HD			Trucks	Truck 2
T7 NNOOS - DSL	T7 NNOOS	Heavy-Heavy Duty Diesel Non-Neighboring Out-of-state Truck	EMFAC2011-HD			Trucks	Truck 2
T7 NOOS - DSL	T7 NOOS	Heavy-Heavy Duty Diesel Neighboring Out-of-state Truck	EMFAC2011-HD			Trucks	Truck 2
T7 other port - DSL	T7 other port	Heavy-Heavy Duty Diesel Drayage Truck at Other Facilities	EMFAC2011-HD			Trucks	Truck 2
T7 POAK - DSL	T7 POAK	Heavy-Heavy Duty Diesel Drayage Truck in Bay Area	EMFAC2011-HD			Trucks	Truck 2
T7 POLA - DSL	T7 POLA	Heavy-Heavy Duty Diesel Drayage Truck near South Coast	EMFAC2011-HD			Trucks	Truck 2
T7 Public - DSL	T7 Public	Heavy-Heavy Duty Diesel Public Fleet Truck	EMFAC2011-HD			Trucks	Truck 2
T7 Single - DSL	T7 Single	Heavy-Heavy Duty Diesel Single Unit Truck	EMFAC2011-HD			Trucks	Truck 2
T7 single construction - DSL	T7 single construction	Heavy-Heavy Duty Diesel Single Unit Construction Truck	EMFAC2011-HD			Trucks	Truck 2
T7 SWCV - DSL	T7 SWCV	Heavy-Heavy Duty Diesel Solid Waste Collection Truck	EMFAC2011-HD			Trucks	Truck 2
T7 tractor - DSL	T7 tractor	Heavy-Heavy Duty Diesel Tractor Truck	EMFAC2011-HD			Trucks	Truck 2
T7 tractor construction - DSL	T7 tractor construction	Heavy-Heavy Duty Diesel Tractor Construction Truck	EMFAC2011-HD			Trucks	Truck 2
T7 utility - DSL	T7 utility	Heavy-Heavy Duty Diesel Utility Fleet Truck	EMFAC2011-HD			Trucks	Truck 2
T7IS - GAS	T7IS	Heavy-Heavy Duty Gasoline Truck	EMFAC2011-LDV			Trucks	Truck 2
PTO - DSL	PTO	Power Take Off	EMFAC2011-HD	Trucks	Truck 2		
SBUS - DSL	SBUS	School Buses	EMFAC2011-HD	SBUS	SB	Non-Trucks	Non-Trucks
SBUS - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
UBUS - DSL	UBUS	Urban Buses	EMFAC2011-LDV	UBUS	UB	Non-Trucks	Non-Trucks
UBUS - GAS			EMFAC2011-LDV			Non-Trucks	Non-Trucks
Motor Coach - DSL	Motor Coach	Motor Coach	EMFAC2011-HD	OBUS	OB	Non-Trucks	Non-Trucks
OBUS - GAS	OBUS	Other Buses	EMFAC2011-LDV			Non-Trucks	Non-Trucks
All Other Buses - DSL	All Other Buses	All Other Buses	EMFAC2011-HD			Non-Trucks	Non-Trucks

EMFAC2007 Vehicle Type	Source
HHDT - DSL	EMFAC2011-HD
HHDT - GAS	EMFAC2011-HD
LDA - DSL	EMFAC2011-LDV
LDA - GAS	EMFAC2011-LDV
LDT1 - DSL	EMFAC2011-LDV
LDT1 - GAS	EMFAC2011-LDV
LDT2 - DSL	EMFAC2011-LDV
LDT2 - GAS	EMFAC2011-LDV
LHDT1 - DSL	EMFAC2011-LDV
LHDT1 - GAS	EMFAC2011-LDV
LHDT2 - DSL	EMFAC2011-LDV
LHDT2 - GAS	EMFAC2011-LDV
MCY - GAS	EMFAC2011-LDV
MDV - DSL	EMFAC2011-LDV
MDV - GAS	EMFAC2011-LDV
MH - DSL	EMFAC2011-LDV
MH - GAS	EMFAC2011-LDV
MHDT - DSL	EMFAC2011-HD
MHDT - GAS	EMFAC2011-HD
OBUS - DSL	EMFAC2011-LDV
OBUS - GAS	EMFAC2011-LDV
SBUS - DSL	EMFAC2011-HD
SBUS - GAS	EMFAC2011-LDV
UBUS - DSL	EMFAC2011-LDV
UBUS - GAS	EMFAC2011-LDV

EMFAC Emissions Factors

EMFAC2014 (v1.0.7) Emission Rates

Region Type: Air District

Region: Sacramento Metropolitan AQMD

Calendar Year: 2014

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Sacramento Metropolitan AQMD	2014	All Other Buses	Aggregated	5	DSL	180.9918162	2.998897901	3.41401698	3.883804156	18.16473985	2372.50894	0.69470195	0.664649451
Sacramento Metropolitan AQMD	2014	LDA	Aggregated	5	GAS	6820.09175	0.23022584	0.314775416	3.054010622	0.234525012	1080.689508	0.012672075	0.011673397
Sacramento Metropolitan AQMD	2014	LDA	Aggregated	5	DSL	42.57367583	0.356099984	0.405396156	3.252803561	0.405066486	800.1008058	0.170252681	0.162887625
Sacramento Metropolitan AQMD	2014	LDT1	Aggregated	5	GAS	691.1094515	0.61665015	0.806678363	8.436047361	0.590290328	1247.987148	0.025420215	0.023470457
Sacramento Metropolitan AQMD	2014	LDT1	Aggregated	5	DSL	3.345774205	0.708639809	0.806739309	3.866401726	0.969654666	975.7711312	0.45970384	0.439817256
Sacramento Metropolitan AQMD	2014	LDT2	Aggregated	5	GAS	2595.16845	0.2721424	0.375559164	3.813432671	0.414030866	1462.610092	0.011789134	0.010862187
Sacramento Metropolitan AQMD	2014	LDT2	Aggregated	5	DSL	2.296526536	0.299848788	0.34135791	2.052476132	0.246507009	991.7625026	0.067042997	0.064142747
Sacramento Metropolitan AQMD	2014	LHD1	Aggregated	5	GAS	17630.34656	0.458688032	0.661517495	5.272369801	0.829335741	1407.429171	0.011393045	0.010482963
Sacramento Metropolitan AQMD	2014	LHD1	Aggregated	5	DSL	8681.719559	0.782754926	0.891114443	3.120134978	4.247776148	1303.696848	0.152165811	0.145583185
Sacramento Metropolitan AQMD	2014	LHD2	Aggregated	5	GAS	2374.359756	0.399392235	0.579120541	4.997622403	0.706897857	1500.493133	0.009276114	0.008532565
Sacramento Metropolitan AQMD	2014	LHD2	Aggregated	5	DSL	2622.53684	0.763362825	0.869037825	2.947509063	3.633497683	1374.682682	0.122558939	0.117257094
Sacramento Metropolitan AQMD	2014	MCY	Aggregated	5	GAS	86.84015633	13.53316687	15.98816032	70.06983449	1.376669659	529.5248163	0.00791462	0.007489506
Sacramento Metropolitan AQMD	2014	MDV	Aggregated	5	GAS	1936.413428	0.414854901	0.583517454	5.206279013	0.639806838	1883.37976	0.012172804	0.011211481
Sacramento Metropolitan AQMD	2014	MDV	Aggregated	5	DSL	13.57472104	0.230321032	0.262205183	3.138460291	0.206580897	1226.310642	0.058001481	0.055492362
Sacramento Metropolitan AQMD	2014	MH	Aggregated	5	GAS	327.1090165	1.69014591	2.182168556	30.68920208	1.608170454	3956.264634	0.020072104	0.018636175
Sacramento Metropolitan AQMD	2014	MH	Aggregated	5	DSL	69.28451409	1.265877873	1.441117798	2.546897418	18.53870384	2119.55448	0.543933266	0.520402954
Sacramento Metropolitan AQMD	2014	Motor Coach	Aggregated	5	DSL	91.18519232	3.219839666	3.665542362	5.893956681	25.61618404	3573.432043	0.408040913	0.390389243
Sacramento Metropolitan AQMD	2014	OBUS	Aggregated	5	GAS	365.9995441	0.83225205	1.19822992	7.122899724	1.69253884	3951.431135	0.004871261	0.004489238
Sacramento Metropolitan AQMD	2014	SBUS	Aggregated	5	GAS	65.17541403	3.861725865	5.635021317	33.37442513	3.392374323	1868.626734	0.027387814	0.025182084
Sacramento Metropolitan AQMD	2014	SBUS	Aggregated	5	DSL	143.0870497	1.351908092	1.539044453	1.652596803	23.82226167	2403.729078	0.34333201	0.328479619
Sacramento Metropolitan AQMD	2014	T6 Ag	Aggregated	5	DSL	141.5869217	9.717352624	11.06246627	10.37547379	29.65028623	2413.339687	2.419842611	2.31516129
Sacramento Metropolitan AQMD	2014	T6 CAIRP heavy	Aggregated	5	DSL	16.56076209	1.612983268	1.836258668	2.526518691	12.1265994	2318.023004	0.295480317	0.282697969
Sacramento Metropolitan AQMD	2014	T6 CAIRP small	Aggregated	5	DSL	50.8374523	2.826070871	3.217266563	4.029795318	14.35990509	2337.378017	0.428669498	0.410125445
Sacramento Metropolitan AQMD	2014	T6 instate construction heavy	Aggregated	5	DSL	45.7713223	3.727430338	4.243395703	4.591148492	20.01770134	2358.99096	0.803410356	0.768655179
Sacramento Metropolitan AQMD	2014	T6 instate construction small	Aggregated	5	DSL	344.8982876	3.50540104	3.990632248	4.699251862	16.18588919	2343.633168	0.614910533	0.588309775
Sacramento Metropolitan AQMD	2014	T6 instate heavy	Aggregated	5	DSL	819.6757287	2.483404085	2.827166511	3.408510629	14.05873257	2328.03231	0.55240346	0.528506731
Sacramento Metropolitan AQMD	2014	T6 instate small	Aggregated	5	DSL	2031.978028	4.434866344	5.048757745	5.667377996	18.60468758	2348.81295	0.821413762	0.785879766
Sacramento Metropolitan AQMD	2014	T6 OOS heavy	Aggregated	5	DSL	9.488694298	1.032622088	1.175561643	1.86845476	11.15358482	2319.530497	0.184600459	0.176614725
Sacramento Metropolitan AQMD	2014	T6 OOS small	Aggregated	5	DSL	29.12794962	2.826070871	3.217266563	4.029795318	14.35990509	2337.378017	0.428669498	0.410125445
Sacramento Metropolitan AQMD	2014	T6 Public	Aggregated	5	DSL	515.3454932	0.606338532	0.690270263	0.895661663	20.66155282	2401.014178	0.160222927	0.153291754
Sacramento Metropolitan AQMD	2014	T6 utility	Aggregated	5	DSL	20.84791247	0.323547615	0.368334331	0.991817611	7.972370897	2341.130069	0.022852479	0.021863891
Sacramento Metropolitan AQMD	2014	T6TS	Aggregated	5	GAS	1024.30656	1.749966046	2.383250746	21.22306299	2.363978635	3955.081154	0.011530703	0.010710326
Sacramento Metropolitan AQMD	2014	T7 Ag	Aggregated	5	DSL	16.92744565	17.02871447	19.38589518	24.08466934	49.81706573	3763.643615	3.933353061	3.763197949
Sacramento Metropolitan AQMD	2014	T7 CAIRP	Aggregated	5	DSL	407.1675691	2.665864437	3.034883732	5.889593468	21.6335375	3406.280629	0.294778963	0.238973636
Sacramento Metropolitan AQMD	2014	T7 CAIRP construction	Aggregated	5	DSL	14.63820623	3.500188924	3.984698651	6.818007488	25.98828629	3529.725439	0.249469199	0.28192194
Sacramento Metropolitan AQMD	2014	T7 NNOOS	Aggregated	5	DSL	504.8882923	1.009295539	1.149006142	3.566964253	16.72057983	3265.968366	0.052828166	0.050542843
Sacramento Metropolitan AQMD	2014	T7 NOOS	Aggregated	5	DSL	160.8310697	1.862709232	2.120552669	4.837406719	20.62629845	3394.825462	0.156271237	0.149511013
Sacramento Metropolitan AQMD	2014	T7 other port	Aggregated	5	DSL	4.738522073	1.328361384	1.512238319	4.27336296	16.87036996	3423.920809	0.052285186	0.050023352
Sacramento Metropolitan AQMD	2014	T7 POAK	Aggregated	5	DSL	9.324087549	1.390604952	1.583097884	4.388135022	17.24687381	3440.625883	0.055634338	0.053227621
Sacramento Metropolitan AQMD	2014	T7 Public	Aggregated	5	DSL	293.3395203	0.964204666	1.097673616	1.914332147	31.71013292	3668.035931	0.21610192	0.206753447
Sacramento Metropolitan AQMD	2014	T7 Single	Aggregated	5	DSL	598.7038771	4.712917303	5.365297596	7.366461587	28.94563801	3537.255988	0.907783938	0.868513606

Sacramento Metropolitan AQMD	2014 T7 single construction	Aggregated	5 DSL	37.86711351	4.636573289	5.278385747	6.985569222	29.75744402	3538.951749	0.832708074	0.796685491
Sacramento Metropolitan AQMD	2014 T7 SWCV	Aggregated	5 DSL	1396.151089	0.798799893	6.402612683	6.999100107	28.59389468	7528.965777	0.029397761	0.028126027
Sacramento Metropolitan AQMD	2014 T7 tractor	Aggregated	5 DSL	271.6731387	4.43739178	5.051632762	7.725156774	25.69600243	3468.467855	0.707655058	0.677042214
Sacramento Metropolitan AQMD	2014 T7 tractor construction	Aggregated	5 DSL	28.23273188	6.254193762	7.119923521	9.675962365	31.70053034	3551.82909	0.888933506	0.850478636
Sacramento Metropolitan AQMD	2014 T7 utility	Aggregated	5 DSL	1.721294194	0.663419133	0.755252183	2.168015159	15.15521448	3432.388419	0.045925752	0.043939024
Sacramento Metropolitan AQMD	2014 T7IS	Aggregated	5 GAS	41.03626744	12.19738041	15.12672326	263.123339	8.813175164	4415.074426	0.026272504	0.024868778
Sacramento Metropolitan AQMD	2014 UBUS	Aggregated	5 GAS	593.7955469	1.450912419	2.078492212	11.1498039	2.535165201	3955.889642	0.006823878	0.006293621
Sacramento Metropolitan AQMD	2014 UBUS	Aggregated	5 DSL	924.2387789	4.788678578	27.49306521	39.46412799	33.31055702	3459.41754	0.381935101	0.365412757

EMFAC2014 (v1.0.7) Emission Rates

Region Type: Air District

Region: Sacramento Metropolitan AQMD

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdIYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Sacramento Metropolitan AQMD	2020	All Other Buses	Aggregated	5	DSL	177.3364501	0.617316932	0.702768336	1.847316678	11.71448487	2314.952932	0.041685293	0.039882006
Sacramento Metropolitan AQMD	2020	LDA	Aggregated	5	GAS	837.9824555	0.08852198	0.129058674	1.362648498	0.11691004	923.270661	0.011851604	0.010897493
Sacramento Metropolitan AQMD	2020	LDA	Aggregated	5	DSL	8.541268852	0.242563833	0.276142797	3.48435732	0.206213473	674.1984068	0.053145061	0.050846029
Sacramento Metropolitan AQMD	2020	LDT1	Aggregated	5	GAS	64.26426827	0.200527209	0.292033688	3.425767701	0.305333147	1097.142979	0.016971587	0.015607038
Sacramento Metropolitan AQMD	2020	LDT1	Aggregated	5	DSL	0.179896671	0.652939426	0.743328126	3.820138861	0.852622624	950.328658	0.404037921	0.386559419
Sacramento Metropolitan AQMD	2020	LDT2	Aggregated	5	GAS	320.4838749	0.117524166	0.171390461	1.795065306	0.193893428	1244.579615	0.011584929	0.010652288
Sacramento Metropolitan AQMD	2020	LDT2	Aggregated	5	DSL	0.542494689	0.264166133	0.300735579	2.294612133	0.171025026	860.623424	0.021037137	0.02012708
Sacramento Metropolitan AQMD	2020	LHD1	Aggregated	5	GAS	11563.00554	0.318398147	0.463064813	3.517720415	0.656355799	1395.395393	0.00949968	0.008736149
Sacramento Metropolitan AQMD	2020	LHD1	Aggregated	5	DSL	7188.815827	0.812474987	0.924948756	3.357381447	3.230266257	1271.544003	0.120739342	0.115516211
Sacramento Metropolitan AQMD	2020	LHD2	Aggregated	5	GAS	1924.734469	0.16821158	0.244847601	1.832227435	0.403427146	1468.026298	0.00705124	0.006483963
Sacramento Metropolitan AQMD	2020	LHD2	Aggregated	5	DSL	2483.180441	0.765021003	0.87092555	3.099435165	2.169754912	1318.546231	0.078183689	0.074801497
Sacramento Metropolitan AQMD	2020	MCY	Aggregated	5	GAS	9.459019823	13.1173919	15.97359399	57.79087253	1.520619439	547.6259507	0.009896473	0.009277963
Sacramento Metropolitan AQMD	2020	MDV	Aggregated	5	GAS	191.8080485	0.251738169	0.357414331	3.355951036	0.368464969	1673.951791	0.011910116	0.010958529
Sacramento Metropolitan AQMD	2020	MDV	Aggregated	5	DSL	3.163633998	0.213996498	0.243620785	3.627696549	0.162921508	1056.5911	0.022412698	0.021443135
Sacramento Metropolitan AQMD	2020	MH	Aggregated	5	GAS	249.2647932	0.739190324	1.04420432	11.97163051	1.048642835	3895.971139	0.012184446	0.011226019
Sacramento Metropolitan AQMD	2020	MH	Aggregated	5	DSL	60.56999259	1.165470553	1.326810739	2.510542269	16.1247856	2091.234808	0.39438367	0.377322807
Sacramento Metropolitan AQMD	2020	Motor Coach	Aggregated	5	DSL	116.4638122	1.098850595	1.250957757	4.019508654	18.59831392	3297.054997	0.045016004	0.043068631
Sacramento Metropolitan AQMD	2020	OBUS	Aggregated	5	GAS	332.0633267	0.415655872	0.606476422	3.287581839	0.871825156	3839.224176	0.005382681	0.004949208
Sacramento Metropolitan AQMD	2020	SBUS	Aggregated	5	GAS	66.4670379	0.361492433	0.527488909	2.693844737	0.816687816	1820.982424	0.005866689	0.005394204
Sacramento Metropolitan AQMD	2020	SBUS	Aggregated	5	DSL	162.7177979	0.767435629	0.873667046	1.33630936	18.08719902	2313.051743	0.136966549	0.131041437
Sacramento Metropolitan AQMD	2020	T6 Ag	Aggregated	5	DSL	141.5869217	4.353952967	4.956644024	5.357457267	17.2735511	2359.617266	1.020812984	0.976653066
Sacramento Metropolitan AQMD	2020	T6 CAIRP heavy	Aggregated	5	DSL	21.15178393	0.32869596	0.37419533	1.378822705	9.158287456	2215.046961	0.013509697	0.012925273
Sacramento Metropolitan AQMD	2020	T6 CAIRP small	Aggregated	5	DSL	64.93075624	0.585319209	0.666341364	1.599649306	9.006829489	2191.198538	0.040510145	0.038757694
Sacramento Metropolitan AQMD	2020	T6 instate construction heavy	Aggregated	5	DSL	74.54977472	0.528310841	0.601441677	1.539854456	11.52291695	2268.607194	0.043183714	0.041315606
Sacramento Metropolitan AQMD	2020	T6 instate construction small	Aggregated	5	DSL	561.751078	0.885163551	1.007691323	2.03255732	10.1001886	2230.005038	0.067237081	0.064328435
Sacramento Metropolitan AQMD	2020	T6 instate heavy	Aggregated	5	DSL	955.8421648	0.478322984	0.544534307	1.676403231	10.18480499	2270.982663	0.025164215	0.024075623
Sacramento Metropolitan AQMD	2020	T6 instate small	Aggregated	5	DSL	2390.264766	1.03093555	1.173641647	2.220604407	10.42309524	2235.495402	0.080721706	0.077229721
Sacramento Metropolitan AQMD	2020	T6 OOS heavy	Aggregated	5	DSL	12.11917727	0.333963771	0.380192331	1.380946012	9.297803161	2218.777432	0.014576511	0.013945938
Sacramento Metropolitan AQMD	2020	T6 OOS small	Aggregated	5	DSL	37.20288313	0.585319209	0.666341364	1.599649306	9.006829489	2191.198538	0.040510145	0.038757694
Sacramento Metropolitan AQMD	2020	T6 Public	Aggregated	5	DSL	525.0830383	0.433642501	0.493668978	0.975181661	13.641186	2288.699938	0.082650744	0.079075309
Sacramento Metropolitan AQMD	2020	T6 utility	Aggregated	5	DSL	22.19303401	0.182249724	0.207477438	0.959302719	5.683528243	2240.187357	0.003936834	0.003766528
Sacramento Metropolitan AQMD	2020	T6T5	Aggregated	5	GAS	810.5132673	0.689292831	1.005814481	6.136021417	1.292295341	3874.707893	0.00627645	0.005770964
Sacramento Metropolitan AQMD	2020	T7 Ag	Aggregated	5	DSL	16.92744565	9.062942206	10.31746982	14.42297713	32.03274749	3497.54275	1.986665637	1.900723361
Sacramento Metropolitan AQMD	2020	T7 CAIRP	Aggregated	5	DSL	520.0437273	0.999345861	1.137679191	4.553246749	21.82565386	3113.736851	0.032583986	0.031174417
Sacramento Metropolitan AQMD	2020	T7 CAIRP construction	Aggregated	5	DSL	23.84189317	1.021564255	1.162973142	4.155117087	21.57796543	3107.388264	0.038694071	0.037020183
Sacramento Metropolitan AQMD	2020	T7 NNOOS	Aggregated	5	DSL	644.8548689	0.614590142	0.699664094	3.298622172	17.71736878	2885.254652	0.014596848	0.013965395
Sacramento Metropolitan AQMD	2020	T7 NOOS	Aggregated	5	DSL	205.4171189	1.000678311	1.139196085	4.545499352	21.99463384	3119.549191	0.033479034	0.032030746
Sacramento Metropolitan AQMD	2020	T7 other port	Aggregated	5	DSL	6.335284358	1.278523731	1.455501945	4.810117766	20.83140887	3235.615845	0.045837615	0.0438547
Sacramento Metropolitan AQMD	2020	T7 POAK	Aggregated	5	DSL	12.63277693	1.446950849	1.647243398	5.161227385	21.67928029	3300.190131	0.054243747	0.051897186
Sacramento Metropolitan AQMD	2020	T7 Public	Aggregated	5	DSL	344.7673951	0.781254278	0.889398526	2.076380326	23.14620006	3369.325796	0.125491184	0.120062491
Sacramento Metropolitan AQMD	2020	T7 Single	Aggregated	5	DSL	510.1911041	0.72549943	0.825925875	2.841248847	15.71644674	3105.585736	0.037089617	0.035485137

Sacramento Metropolitan AQMD	2020 T7 single construction	Aggregated	5 DSL	61.67584067	0.837239983	0.953133989	3.008695835	16.95390773	3181.590202	0.048526522	0.046427286
Sacramento Metropolitan AQMD	2020 T7 SWCV	Aggregated	5 DSL	1649.505201	0.543566123	6.368029992	13.19932591	16.11820715	6738.539015	0.019287429	0.018453063
Sacramento Metropolitan AQMD	2020 T7 tractor	Aggregated	5 DSL	348.4688194	1.204617546	1.371365379	4.643231415	21.28706522	3189.182866	0.050093476	0.047926454
Sacramento Metropolitan AQMD	2020 T7 tractor construction	Aggregated	5 DSL	45.98389768	1.20635296	1.373341016	4.22916929	22.11273639	3207.892989	0.059990898	0.057395719
Sacramento Metropolitan AQMD	2020 T7 utility	Aggregated	5 DSL	1.83235327	0.370919385	0.422263484	2.190192799	8.800845827	3104.324239	0.006033554	0.005772545
Sacramento Metropolitan AQMD	2020 T7IS	Aggregated	5 GAS	36.00578258	3.414691715	4.910948527	70.74364642	6.203823024	4207.367697	0.005327836	0.004918393
Sacramento Metropolitan AQMD	2020 UBUS	Aggregated	5 GAS	541.7520433	0.990027592	1.443907147	6.763461345	1.970451715	3894.227541	0.005932697	0.005455265
Sacramento Metropolitan AQMD	2020 UBUS	Aggregated	5 DSL	710.699439	3.569630191	22.8208523	39.75260845	24.43940736	3326.743834	0.266305503	0.254785245

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Region Type: Air District

Region: Sacramento Metropolitan AQMD

Calendar Year: 2035

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Sacramento Metropolitan AQMD	2035	All Other Buses	Aggregated	5	DSL	178.8208704	0.266665452	0.303578319	1.403639398	11.31306902	2149.334372	0.006705161	0.006415099
Sacramento Metropolitan AQMD	2035	LDA	Aggregated	5	GAS	910.1446457	0.030745024	0.044863067	0.642564093	0.045584967	648.0770121	0.006811537	0.006262957
Sacramento Metropolitan AQMD	2035	LDA	Aggregated	5	DSL	12.42008682	0.089165196	0.101508647	2.681597643	0.050630477	487.3288999	0.002620176	0.002506829
Sacramento Metropolitan AQMD	2035	LDT1	Aggregated	5	GAS	63.0390436	0.042480047	0.061986785	0.791246119	0.061108608	714.3447238	0.007278973	0.006692747
Sacramento Metropolitan AQMD	2035	LDT1	Aggregated	5	DSL	0.043812573	0.301416525	0.343142675	2.848258029	0.332825379	620.5550423	0.059719893	0.057136437
Sacramento Metropolitan AQMD	2035	LDT2	Aggregated	5	GAS	394.2497345	0.042133477	0.06148107	0.850850508	0.061488623	821.450778	0.006957056	0.006396756
Sacramento Metropolitan AQMD	2035	LDT2	Aggregated	5	DSL	0.856513073	0.263488046	0.299963623	2.664512264	0.152820588	604.8398172	0.009468964	0.00905934
Sacramento Metropolitan AQMD	2035	LHD1	Aggregated	5	GAS	5068.288719	0.065653629	0.095801621	0.529834388	0.23240553	1318.45404	0.007580169	0.006969686
Sacramento Metropolitan AQMD	2035	LHD1	Aggregated	5	DSL	5104.780549	0.771632562	0.87845237	3.51033377	0.898250119	1158.033356	0.035195558	0.033673013
Sacramento Metropolitan AQMD	2035	LHD2	Aggregated	5	GAS	1568.021325	0.025433229	0.037112108	0.23584997	0.079391636	1377.232082	0.007554627	0.006946201
Sacramento Metropolitan AQMD	2035	LHD2	Aggregated	5	DSL	2383.536429	0.745049957	0.848189842	3.304992278	0.36981181	1196.855945	0.019775031	0.018919572
Sacramento Metropolitan AQMD	2035	MCY	Aggregated	5	GAS	10.00988679	12.64805521	15.84485178	45.05338743	1.654074369	565.361137	0.013221577	0.012328202
Sacramento Metropolitan AQMD	2035	MDV	Aggregated	5	GAS	188.8176507	0.065774085	0.09597739	1.104746328	0.100293625	1100.08625	0.007366972	0.006773659
Sacramento Metropolitan AQMD	2035	MDV	Aggregated	5	DSL	5.154417511	0.105058361	0.119601959	3.051604053	0.058844304	749.1332295	0.003144073	0.003008061
Sacramento Metropolitan AQMD	2035	MH	Aggregated	5	GAS	168.282603	0.106059472	0.154761732	0.676472817	0.303096958	3702.930527	0.00763809	0.007022942
Sacramento Metropolitan AQMD	2035	MH	Aggregated	5	DSL	44.16720348	0.826547304	0.940969153	2.183412228	11.42872506	2011.032362	0.096051769	0.091896612
Sacramento Metropolitan AQMD	2035	Motor Coach	Aggregated	5	DSL	148.4958331	0.504858993	0.574743533	2.981075074	17.44428893	3018.730103	0.009461077	0.009051795
Sacramento Metropolitan AQMD	2035	OBUS	Aggregated	5	GAS	323.5865524	0.080834536	0.117953566	0.49184288	0.206494921	3669.421141	0.007623875	0.007009871
Sacramento Metropolitan AQMD	2035	SBUS	Aggregated	5	GAS	101.4379984	0.057501323	0.083905796	0.327262758	0.166859133	1748.122772	0.007033874	0.006467388
Sacramento Metropolitan AQMD	2035	SBUS	Aggregated	5	DSL	159.9099458	0.280581202	0.31942034	1.249628433	9.393479599	2141.468304	0.009884587	0.009456984
Sacramento Metropolitan AQMD	2035	T6 Ag	Aggregated	5	DSL	141.5869217	0.290930226	0.331201917	1.531361202	11.82223388	2175.349595	0.007427003	0.007105714
Sacramento Metropolitan AQMD	2035	T6 CAIRP heavy	Aggregated	5	DSL	26.96933681	0.227409684	0.258888614	1.19700992	9.465661708	2092.518661	0.005460296	0.005224086
Sacramento Metropolitan AQMD	2035	T6 CAIRP small	Aggregated	5	DSL	82.78920778	0.215246538	0.245041798	1.132987111	8.754741518	2109.745485	0.005062596	0.00484359
Sacramento Metropolitan AQMD	2035	T6 instate construction heavy	Aggregated	5	DSL	135.7294129	0.259584018	0.295516645	1.365177783	11.06387591	2130.41346	0.006517907	0.006235945
Sacramento Metropolitan AQMD	2035	T6 instate construction small	Aggregated	5	DSL	1022.754855	0.237226724	0.270064567	1.24757176	9.98087876	2119.445865	0.00579901	0.005548148
Sacramento Metropolitan AQMD	2035	T6 instate heavy	Aggregated	5	DSL	1130.436262	0.257362866	0.292988032	1.354673638	10.7923469	2112.488438	0.00640414	0.006127099
Sacramento Metropolitan AQMD	2035	T6 instate small	Aggregated	5	DSL	2856.84218	0.238946958	0.272022922	1.257738342	10.06575424	2122.427672	0.005830809	0.00557857
Sacramento Metropolitan AQMD	2035	T6 OOS heavy	Aggregated	5	DSL	15.45241644	0.22758757	0.259091125	1.197946256	9.472123772	2092.613347	0.005465785	0.005229338
Sacramento Metropolitan AQMD	2035	T6 OOS small	Aggregated	5	DSL	47.43510471	0.215246538	0.245041798	1.132987111	8.754741518	2109.745485	0.005062596	0.00484359
Sacramento Metropolitan AQMD	2035	T6 Public	Aggregated	5	DSL	591.7500982	0.219172576	0.249511294	1.005876712	7.635114706	2135.025678	0.01111591	0.01063504
Sacramento Metropolitan AQMD	2035	T6 utility	Aggregated	5	DSL	25.59225322	0.177938922	0.202569918	0.93661207	6.424396545	2111.246257	0.003830913	0.003665189
Sacramento Metropolitan AQMD	2035	T6TS	Aggregated	5	GAS	613.7226885	0.087126752	0.127135152	0.553611136	0.223057834	3674.137661	0.007477753	0.006875517
Sacramento Metropolitan AQMD	2035	T7 Ag	Aggregated	5	DSL	16.92744565	0.68166895	0.77602821	4.025096796	21.24399096	3010.315947	0.013532056	0.012946665
Sacramento Metropolitan AQMD	2035	T7 CAIRP	Aggregated	5	DSL	663.0757238	0.568434311	0.647119193	3.356472558	20.60764917	2767.942896	0.011060729	0.010582246
Sacramento Metropolitan AQMD	2035	T7 CAIRP construction	Aggregated	5	DSL	43.40785972	0.581980211	0.662540169	3.434709163	21.38024343	2790.172895	0.011432344	0.010937786
Sacramento Metropolitan AQMD	2035	T7 NNOOS	Aggregated	5	DSL	822.2147225	0.497132462	0.565947466	2.935451703	17.19919597	2760.50006	0.009272751	0.008871616
Sacramento Metropolitan AQMD	2035	T7 NOOS	Aggregated	5	DSL	261.9147153	0.56877766	0.647510069	3.358499951	20.61493752	2768.253296	0.011068623	0.010589799
Sacramento Metropolitan AQMD	2035	T7 other port	Aggregated	5	DSL	8.615484253	0.619916195	0.705727399	3.660461122	23.39254377	2784.96641	0.012377461	0.011842017
Sacramento Metropolitan AQMD	2035	T7 POAK	Aggregated	5	DSL	25.08532556	0.623629417	0.709954619	3.682386833	23.5798428	2784.96641	0.012471353	0.011931848
Sacramento Metropolitan AQMD	2035	T7 Public	Aggregated	5	DSL	448.5685598	0.497541903	0.566413583	2.278880638	13.72466313	2928.481969	0.027305064	0.026123859
Sacramento Metropolitan AQMD	2035	T7 Single	Aggregated	5	DSL	910.7611395	0.471217687	0.536445467	2.782430978	15.44007531	2815.712766	0.008583221	0.008211914

Sacramento Metropolitan AQMD	2035 T7 single construction	Aggregated	5 DSL	112.2904218	0.483025388	0.549887635	2.842402041	15.70760126	2832.257394	0.009067052	0.008674815
Sacramento Metropolitan AQMD	2035 T7 SWCV	Aggregated	5 DSL	2126.185143	0.203613326	5.898315944	19.36587818	3.962336984	5879.799014	0.010371951	0.009923265
Sacramento Metropolitan AQMD	2035 T7 tractor	Aggregated	5 DSL	452.1059287	0.589676911	0.671302276	3.481905173	21.23652682	2786.934846	0.011562503	0.011062314
Sacramento Metropolitan AQMD	2035 T7 tractor construction	Aggregated	5 DSL	83.72080882	0.606782039	0.690775162	3.579906	22.11852806	2815.74279	0.01204153	0.011520619
Sacramento Metropolitan AQMD	2035 T7 utility	Aggregated	5 DSL	2.11300757	0.368044267	0.418990381	2.173215896	10.47440475	2809.628987	0.005998545	0.005739051
Sacramento Metropolitan AQMD	2035 T7IS	Aggregated	5 GAS	33.76985677	2.075895849	3.02914235	54.17082653	5.630586384	3805.091444	0.007606665	0.006994048
Sacramento Metropolitan AQMD	2035 UBUS	Aggregated	5 GAS	430.9095424	0.294611867	0.429896945	2.186175981	1.016732366	3717.418113	0.007112333	0.006539528
Sacramento Metropolitan AQMD	2035 UBUS	Aggregated	5 DSL	450.7524336	1.116071683	13.48488795	40.63069509	7.2363988	2975.199805	0.049826537	0.047671063

Carbon Monoxide Modeling and Results

CO Emissions Calculations
EMFAC 2014 Existing Emissions Factors

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X							
1	Sheet Purpose									Analysis Year		2014																			
2	Computes weighted vehicle emission factors (grey box) based on EMFAC output (blue box).																														
3	User Inputs									EMFAC2014 run file name:																					
4	EMFAC output (blue box). Note that an example run is currently used to populate the cells.									EMFAC2014-ER-2011Class-SacramentoMetropolitanAQMD-2014-Annual-20151202111458.csv																					
5	Sheet Outputs																														
6	Weighted running exhaust emission factors for input into the "Emissions Summary" tab (green box).																														
7																															
8																															
9	EMFAC2014 (v1.0.7) Emission Rates																														
10	Region Type: Air District																														
11	Region: Sacramento Metropolitan AQMD																														
12	Calendar Year: 2014																														
13	Season: Annual																														
14	Vehicle Classification: EMFAC2011 Categories																														
15	Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW																														
16																															
17	Area	CalYr	Veh	MdYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	% of total	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	
18					(Miles/hr)		(veh-mi/day)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)		(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)		(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
19	Sacramento	2014	All Other Bu	Aggregated	5	DSL	180.9918162	2.998897901	3.41401698	3.883804156	18.16473985	2372.50894	0.69470195	0.664649451	0.3%	0.010	0.011	0.013	0.059995159	7.836	0.002	0.002	0.3%	0.010	0.011	0.013	0.059995159	7.836	0.002	0.002	
20	Sacramento	2014	LDA	Aggregated	5	GAS	6820.09175	0.23022584	0.314775416	3.054010622	0.234525012	1080.689508	0.012672075	0.011673397	12.4%	0.029	0.039	0.380	0.029188211	134.499	0.002	0.001	12.4%	0.029	0.039	0.380	0.029188211	134.499	0.002	0.001	
21	Sacramento	2014	LDA	Aggregated	5	DSL	42.57367583	0.356099984	0.405396156	3.252803561	0.405066486	800.1008058	0.170252681	0.162887625	0.1%	0.000	0.000	0.003	0.000314699	0.622	0.000	0.000	0.1%	0.000	0.000	0.003	0.000314699	0.622	0.000	0.000	
22	Sacramento	2014	LDT1	Aggregated	5	GAS	691.1094515	0.61665015	0.806678363	8.436047361	0.590290328	1247.987148	0.025420215	0.023470457	1.3%	0.008	0.010	0.106	0.007444587	15.739	0.000	0.000	1.3%	0.008	0.010	0.106	0.007444587	15.739	0.000	0.000	
23	Sacramento	2014	LDT1	Aggregated	5	DSL	3.345774205	0.708639809	0.806739309	3.866401726	0.969654666	975.7711312	0.45970384	0.439817256	0.0%	0.000	0.000	0.000	5.92027E-05	0.060	0.000	0.000	0.0%	0.000	0.000	0.000	5.92027E-05	0.060	0.000	0.000	
24	Sacramento	2014	LDT2	Aggregated	5	GAS	2595.16845	0.2721424	0.375559164	3.813432671	0.414030866	1462.610092	0.011789134	0.010862187	4.7%	0.013	0.018	0.181	0.019607687	69.266	0.001	0.001	4.7%	0.013	0.018	0.181	0.019607687	69.266	0.001	0.001	
25	Sacramento	2014	LDT2	Aggregated	5	DSL	2.296526536	0.299848788	0.34135791	2.052476132	0.246507009	991.7625026	0.067042997	0.064142747	0.0%	0.000	0.000	0.000	1.03307E-05	0.042	0.000	0.000	0.0%	0.000	0.000	0.000	1.03307E-05	0.042	0.000	0.000	
26	Sacramento	2014	LHD1	Aggregated	5	GAS	17630.34656	0.458688032	0.661517495	5.272369801	0.829335741	1407.429171	0.011393045	0.010482963	32.2%	0.148	0.213	1.696	0.266820578	452.809	0.004	0.003	32.2%	0.148	0.213	1.696	0.266820578	452.809	0.004	0.003	
27	Sacramento	2014	LHD1	Aggregated	5	DSL	8681.719559	0.782754926	0.891114443	3.120134978	4.247776148	1303.696848	0.152165811	0.145583185	15.8%	0.124	0.141	0.494	0.672969627	206.543	0.024	0.023	15.8%	0.124	0.141	0.494	0.672969627	206.543	0.024	0.023	
28	Sacramento	2014	LHD2	Aggregated	5	GAS	2374.359756	0.399392235	0.579120541	4.997622403	0.706897857	1500.493133	0.009276114	0.008532565	4.3%	0.017	0.025	0.217	0.030628891	65.014	0.000	0.000	4.3%	0.017	0.025	0.217	0.030628891	65.014	0.000	0.000	
29	Sacramento	2014	LHD2	Aggregated	5	DSL	2622.53684	0.763362825	0.869037825	2.947509063	3.633497683	1374.682682	0.122558939	0.117257094	4.8%	0.037	0.042	0.141	0.173889987	65.789	0.006	0.006	4.8%	0.037	0.042	0.141	0.173889987	65.789	0.006	0.006	
30	Sacramento	2014	MCY	Aggregated	5	GAS	86.84015633	13.53316687	15.98816032	70.06983449	1.376669659	529.5248163	0.00791462	0.007489506	0.2%	0.021	0.025	0.111	0.002181617	0.839	0.000	0.000	0.2%	0.021	0.025	0.111	0.002181617	0.839	0.000	0.000	
31	Sacramento	2014	MDV	Aggregated	5	GAS	1936.413428	0.414854901	0.583517454	5.206279013	0.639806838	1883.37976	0.012172804	0.011211481	3.5%	0.015	0.021	0.184	0.022608672	66.552	0.000	0.000	3.5%	0.015	0.021	0.184	0.022608672	66.552	0.000	0.000	
32	Sacramento	2014	MDV	Aggregated	5	DSL	13.57472104	0.230321032	0.262205183	3.138460291	0.206580897	1226.310642	0.058001481	0.055492362	0.0%	0.000	0.000	0.001	5.1174E-05	0.304	0.000	0.000	0.0%	0.000	0.000	0.001	5.1174E-05	0.304	0.000	0.000	
33	Sacramento	2014	MH	Aggregated	5	GAS	327.1090165	1.69014591	2.182168556	30.68920208	1.608170454	3956.264634	0.020072104	0.018636175	0.6%	0.010	0.013	0.183	0.00959959	23.616	0.000	0.000	0.6%	0.010	0.013	0.183	0.00959959	23.616	0.000	0.000	
34	Sacramento	2014	MH	Aggregated	5	DSL	69.28451409	1.265877873	1.441117798	2.546897418	18.53870384	2119.55448	0.543933266	0.520402954	0.1%	0.002	0.002	0.003	0.023439246	2.680	0.001	0.001	0.1%	0.002	0.002	0.003	0.023439246	2.680	0.001	0.001	
35	Sacramento	2014	Motor Coac	Aggregated	5	DSL	91.18519232	3.219839666	3.665542362	5.893956681	25.61618404	3573.432043	0.408040913	0.390389243	0.2%	0.005	0.006	0.010	0.04262524	5.946	0.001	0.001	0.2%	0.005	0.006	0.010	0.04262524	5.946	0.001	0.001	
36	Sacramento	2014	OBUS	Aggregated	5	GAS	365.9995441	0.83225205	1.19822992	7.122899724	1.69253884	3951.431135	0.004871261	0.004489238	0.7%	0.006	0.008	0.048	0.011304394	26.391	0.000	0.000	0.7%	0.006	0.008	0.048	0.011304394	26.391	0.000	0.000	
37	Sacramento	2014	SBUS	Aggregated	5	GAS	65.17541403	3.861725865	5.635021317	33.37442513	3.392374323	1868.626734	0.027387814	0.025182084	0.1%	0.005	0.007	0.040	0.004034741	2.222	0.000	0.000	0.1%	0.005	0.007	0.040	0.004034741	2.222	0.000	0.000	
38	Sacramento	2014	SBUS	Aggregated	5	DSL	143.0870497	1.351908092	1.539044453	1.652596803	23.82226167	2403.729078	0.34333201	0.328479619	0.3%	0.004	0.004	0.004	0.062203011	6.276	0.001	0.001	0.3%	0.004	0.004	0.004	0.062203011	6.276	0.001	0.001	
39	Sacramento	2014	T6 Ag	Aggregated	5	DSL	141.5869217	9.717352624	11.06246627	10.37547379	29.65028623	2413.339687	2.419842611	2.31516129	0.3%	0.025	0.029	0.027	0.076609057	6.235	0.006	0.006	0.3%	0.025	0.029	0.027	0.076609057	6.235	0.006	0.006	
40	Sacramento	2014	T6 CAIRP he	Aggregated	5	DSL	16.56076209	1.612983268	1.836258668	2.526518691	12.1265994	2318.023004	0.295480317	0.282697969	0.0%	0.000	0.001	0.001	0.003664776	0.701	0.000	0.000	0.0%	0.000	0.001	0.001	0.003664776	0.701	0.000	0.000	
41	Sacramento	2014	T6 CAIRP sm	Aggregated	5	DSL	50.8374523	2.826070871	3.217266563	4.029795318	14.35990509	2337.378017	0.428669498	0.410125445	0.1%	0.003	0.003	0.004	0.013321816	2.168	0.000	0.000	0.1%	0.003	0.003	0.004	0.013321816	2.168	0.000	0.000	
42	Sacramento	2014	T6 instate cd	Aggregated	5	DSL	45.7713223	3.727430338	4.243395703	4.591148492	20.01770134	2358.99096	0.803410356	0.768655179	0.1%	0.003	0.004	0.004	0.01671998	1.970	0.001	0.001	0.1%	0.003	0.004	0.004	0.01671998	1.970	0.001	0.001	
43	Sacramento	2014	T6 instate cd	Aggregated	5	DSL	344.8982876	3.50540104	3.990632248	4.699251862	16.18588919	2343.633168	0.614910533	0.588309775	0.6%	0.022	0.025	0.030	0.101872201	14.751	0.004	0.004	0.6%	0.022	0.025	0.030	0.101872201	14.751	0.004	0.004	
44	Sacramento	2014	T6 instate h	Aggregated	5	DSL	819.6757287	2.483404085	2.827166511	3.408510629	14.05873257	2328.03231	0.55240346	0.528506731	1.5%	0.037	0.042	0.051	0.210288893	34.822	0.008	0.008	1.5%	0.037	0.042	0.051	0.210288893	34.822	0.008	0.008	
45	Sacramento	2014	T6 instate sr	Aggregated	5	DSL	2031.978028	4.434866344	5.048757745	5.667377996	18.60468758	2348.81295	0.821413762	0.785879766	3.7%	0.164	0.187	0.210	0.689873524	87.095	0.030	0.029	3.7%	0.164	0.187	0.210	0.689873524	87.095	0.030	0.029	
46	Sacramento	2014	T6 OOS hea	Aggregated	5	DSL	9.488694298	1.032622088	1.175561643	1.86845476	11.15358482	2319.530497	0.184600459	0.176614725	0.0%	0.000	0.000	0.000	0.001931297	0.402	0.000	0.000	0.0%	0.000	0.000	0.000	0.001931297	0.402	0.000	0.000	
47	Sacramento	2014	T6 OOS sma	Aggregated	5	DSL	29.12794962	2.826070871	3.217266563	4.029795318	14.35990509	2337.378017	0.428669498	0.410125445	0.1%	0.002	0.002	0.002													

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
66	Sacramento	2014	UBUS	Aggregated	5	GAS	593.7955469	1.450912419	2.078492212	11.1498039	2.535165201	3955.889642	0.006823878	0.006293621		1.1%		0.016	0.023	0.121	0.027470799	42.866	0.000	0.000
67	Sacramento	2014	UBUS	Aggregated	5	DSL	924.2387789	4.788678578	27.49306521	39.46412799	33.31055702	3459.41754	0.381935101	0.365412757		1.7%		0.081	0.464	0.666	0.561816087	58.347	0.006	0.006
68																0.0%		0.000	0.000	0.000	0	0.000	0.000	0.000
69	Total VMT for all classes						54,799									100.0%								
70																		ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
71																		(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
72																		0.973463099	1.703537309	5.909926455	5.021158131	1825.018376	0.115893167	0.110614085

CO Emissions Calculations
EMFAC 2020 Interim Year Emissions Factors

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S		
1	Sheet Purpose									Analysis Year		2020									
2	Computes weighted vehicle emission factors (grey box) based on EMFAC output (blue box).																				
3	User Inputs									EMFAC2014 run file name:											
4	EMFAC output (blue box). Note that an example run is currently used to populate the cells.									EMFAC2014-ER-2011Class-SacramentoMetropolitanAQMD-2020-Annual-20151202105850.csv											
5	Sheet Outputs																				
6	Weighted running exhaust emission factors for input into the "Emissions Summary" tab (green box).																				
7																					
8																					
9	EMFAC2014 (v1.0.7) Emission Rates																				
10	Region Type: Air District																				
11	Region: Sacramento Metropolitan AQMD																				
12	Calendar Year: 2020																				
13	Season: Annual																				
14	Vehicle Classification: EMFAC2011 Categories																				
15	Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW																				
16																					
17	Area	CalYr	Veh	MdYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	% of total	ROG_RUNEX	TOG_RUNEX				
18					(Miles/hr)		(veh-mi/day)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	VMT	(g/VMT)	(g/VMT)				
19	Sacramento	2020	All Other Bu	Aggregated	5	DSL	177.3364501	0.617316932	0.702768336	1.847316678	11.71448487	2314.952932	0.041685293	0.039882006	0.5%	0.003	0.003				
20	Sacramento	2020	LDA	Aggregated	5	GAS	837.9824555	0.08852198	0.129058674	1.362648498	0.11691004	923.270661	0.011851604	0.010897493	2.3%	0.002	0.003				
21	Sacramento	2020	LDA	Aggregated	5	DSL	8.541268852	0.242563833	0.276142797	3.48435732	0.206213473	674.1984068	0.053145061	0.050846029	0.0%	0.000	0.000				
22	Sacramento	2020	LDT1	Aggregated	5	GAS	64.26426827	0.200527209	0.292033688	3.425767701	0.305333147	1097.142979	0.016971587	0.015607038	0.2%	0.000	0.001				
23	Sacramento	2020	LDT1	Aggregated	5	DSL	0.179896671	0.652939426	0.743328126	3.820138861	0.852622624	950.328658	0.404037921	0.386559419	0.0%	0.000	0.000				
24	Sacramento	2020	LDT2	Aggregated	5	GAS	320.4838749	0.117524166	0.171390461	1.795065306	0.193893428	1244.579615	0.011584929	0.010652288	0.9%	0.001	0.001				
25	Sacramento	2020	LDT2	Aggregated	5	DSL	0.542494689	0.264166133	0.300735579	2.294612133	0.171025026	860.623424	0.021037137	0.02012708	0.0%	0.000	0.000				
26	Sacramento	2020	LHD1	Aggregated	5	GAS	11563.00554	0.318398147	0.463064813	3.517720415	0.656355799	1395.395393	0.00949968	0.008736149	31.2%	0.099	0.144				
27	Sacramento	2020	LHD1	Aggregated	5	DSL	7188.815827	0.812474987	0.924948756	3.357381447	3.230266257	1271.544003	0.120739342	0.115516211	19.4%	0.158	0.179				
28	Sacramento	2020	LHD2	Aggregated	5	GAS	1924.734469	0.16821158	0.244847601	1.832227435	0.403427146	1468.026298	0.00705124	0.006483963	5.2%	0.009	0.013				
29	Sacramento	2020	LHD2	Aggregated	5	DSL	2483.180441	0.765021003	0.87092555	3.099435165	2.169754912	1318.546231	0.078183689	0.074801497	6.7%	0.051	0.058				
30	Sacramento	2020	MCY	Aggregated	5	GAS	9.459019823	13.1173919	15.97359399	57.79087253	1.520619439	547.6259507	0.009896473	0.009277963	0.0%	0.003	0.004				
31	Sacramento	2020	MDV	Aggregated	5	GAS	191.8080485	0.251738169	0.357414331	3.355951036	0.368464969	1673.951791	0.011910116	0.010958529	0.5%	0.001	0.002				
32	Sacramento	2020	MDV	Aggregated	5	DSL	3.163633998	0.213996498	0.243620785	3.627696549	0.162921508	1056.5911	0.022412698	0.021443135	0.0%	0.000	0.000				
33	Sacramento	2020	MH	Aggregated	5	GAS	249.2647932	0.739190324	1.04420432	11.97163051	1.048642835	3895.971139	0.012184446	0.011226019	0.7%	0.005	0.007				
34	Sacramento	2020	MH	Aggregated	5	DSL	60.56999259	1.165470553	1.326810739	2.510542269	16.1247856	2091.234808	0.39438367	0.377322807	0.2%	0.002	0.002				
35	Sacramento	2020	Motor Coac	Aggregated	5	DSL	116.4638122	1.098850595	1.250957757	4.019508654	18.59831392	3297.054997	0.045016004	0.043068631	0.3%	0.003	0.004				
36	Sacramento	2020	OBUS	Aggregated	5	GAS	332.0633267	0.415655872	0.606476422	3.287581839	0.871825156	3839.224176	0.005382681	0.004949208	0.9%	0.004	0.005				
37	Sacramento	2020	SBUS	Aggregated	5	GAS	66.4670379	0.361492433	0.527488909	2.693844737	0.816687816	1820.982424	0.005866689	0.005394204	0.2%	0.001	0.001				
38	Sacramento	2020	SBUS	Aggregated	5	DSL	162.7177979	0.767435629	0.873667046	1.33630936	18.08719902	2313.051743	0.136966549	0.131041437	0.4%	0.003	0.004				
39	Sacramento	2020	T6 Ag	Aggregated	5	DSL	141.5869217	4.353952967	4.956644024	5.357457267	17.2735511	2359.617266	1.020812984	0.976653066	0.4%	0.017	0.019				
40	Sacramento	2020	T6 CAIRP he	Aggregated	5	DSL	21.15178393	0.32869596	0.37419533	1.378822705	9.158287456	2215.046961	0.013509697	0.012925273	0.1%	0.000	0.000				
41	Sacramento	2020	T6 CAIRP sm	Aggregated	5	DSL	64.93075624	0.585319209	0.666341364	1.599649306	9.006829489	2191.198538	0.040510145	0.038757694	0.2%	0.001	0.001				
42	Sacramento	2020	T6 instate cc	Aggregated	5	DSL	74.54977472	0.528310841	0.601441677	1.539854456	11.52291695	2268.607194	0.043183714	0.041315606	0.2%	0.001	0.001				
43	Sacramento	2020	T6 instate cc	Aggregated	5	DSL	561.751078	0.885163551	1.007691323	2.03255732	10.1001886	2230.005038	0.067237081	0.064328435	1.5%	0.013	0.015				
44	Sacramento	2020	T6 instate h	Aggregated	5	DSL	955.8421648	0.478322984	0.544534307	1.676403231	10.18480499	2270.982663	0.025164215	0.024075623	2.6%	0.012	0.014				
45	Sacramento	2020	T6 instate sr	Aggregated	5	DSL	2390.264766	1.03093555	1.173641647	2.220604407	10.42309524	2235.495402	0.080721706	0.077229721	6.4%	0.066	0.076				
46	Sacramento	2020	T6 OOS heav	Aggregated	5	DSL	12.11917727	0.333963771	0.380192331	1.380946012	9.297803161	2218.777432	0.014576511	0.013945938	0.0%	0.000	0.000				
47	Sacramento	2020	T6 OOS sma	Aggregated	5	DSL	37.20288313	0.585319209	0.666341364	1.599649306	9.006829489	2191.198538	0.040510145	0.038757694	0.1%	0.001	0.001				
48	Sacramento	2020	T6 Public	Aggregated	5	DSL	525.0830383	0.433642501	0.493668978	0.975181661	13.641186	2288.699938	0.082650744	0.079075309	1.4%	0.006	0.007				
49	Sacramento	2020	T6 utility	Aggregated	5	DSL	22.19303401	0.182249724	0.207477438	0.959302719	5.683528243	2240.187357	0.003936834	0.003766528	0.1%	0.000	0.000				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
50	Sacramento	2020	T6TS	Aggregated	5	GAS	810.5132673	0.689292831	1.005814481	6.136021417	1.292295341	3874.707893	0.00627645	0.005770964		2.2%		0.015	0.022	
51	Sacramento	2020	T7 Ag	Aggregated	5	DSL	16.92744565	9.062942206	10.31746982	14.42297713	32.03274749	3497.54275	1.986665637	1.900723361		0.0%		0.004	0.005	
52	Sacramento	2020	T7 CAIRP	Aggregated	5	DSL	520.0437273	0.999345861	1.137679191	4.553246749	21.82565386	3113.736851	0.032583986	0.031174417		1.4%		0.014	0.016	
53	Sacramento	2020	T7 CAIRP co	Aggregated	5	DSL	23.84189317	1.021564255	1.162973142	4.155117087	21.57796543	3107.388264	0.038694071	0.037020183		0.1%		0.001	0.001	
54	Sacramento	2020	T7 NNOOS	Aggregated	5	DSL	644.8548689	0.614590142	0.699664094	3.298622172	17.71736878	2885.254652	0.014596848	0.013965395		1.7%		0.011	0.012	
55	Sacramento	2020	T7 NOOS	Aggregated	5	DSL	205.4171189	1.000678311	1.139196085	4.545499352	21.99463384	3119.549191	0.033479034	0.032030746		0.6%		0.006	0.006	
56	Sacramento	2020	T7 other por	Aggregated	5	DSL	6.335284358	1.278523731	1.455501945	4.810117766	20.83140887	3235.615845	0.045837615	0.0438547		0.0%		0.000	0.000	
57	Sacramento	2020	T7 POAK	Aggregated	5	DSL	12.63277693	1.446950849	1.647243398	5.161227385	21.67928029	3300.190131	0.054243747	0.051897186		0.0%		0.000	0.001	
58	Sacramento	2020	T7 Public	Aggregated	5	DSL	344.7673951	0.781254278	0.889398526	2.076380326	23.14620006	3369.325796	0.125491184	0.120062491		0.9%		0.007	0.008	
59	Sacramento	2020	T7 Single	Aggregated	5	DSL	510.1911041	0.72549943	0.825925875	2.841248847	15.71644674	3105.585736	0.037089617	0.035485137		1.4%		0.010	0.011	
60	Sacramento	2020	T7 single cor	Aggregated	5	DSL	61.67584067	0.837239983	0.953133989	3.008695835	16.95390773	3181.590202	0.048526522	0.046427286		0.2%		0.001	0.002	
61	Sacramento	2020	T7 SWCV	Aggregated	5	DSL	1649.505201	0.543566123	6.368029992	13.19932591	16.11820715	6738.539015	0.019287429	0.018453063		4.5%		0.024	0.283	
62	Sacramento	2020	T7 tractor	Aggregated	5	DSL	348.4688194	1.204617546	1.371365379	4.643231415	21.28706522	3189.182866	0.050093476	0.047926454		0.9%		0.011	0.013	
63	Sacramento	2020	T7 tractor co	Aggregated	5	DSL	45.98389768	1.20635296	1.373341016	4.22916929	22.11273639	3207.892989	0.059990898	0.057395719		0.1%		0.001	0.002	
64	Sacramento	2020	T7 utility	Aggregated	5	DSL	1.83235327	0.370919385	0.422263484	2.190192799	8.800845827	3104.324239	0.006033554	0.005772545		0.0%		0.000	0.000	
65	Sacramento	2020	T7IS	Aggregated	5	GAS	36.00578258	3.414691715	4.910948527	70.74364642	6.203823024	4207.367697	0.005327836	0.004918393		0.1%		0.003	0.005	
66	Sacramento	2020	UBUS	Aggregated	5	GAS	541.7520433	0.990027592	1.443907147	6.763461345	1.970451715	3894.227541	0.005932697	0.005455265		1.5%		0.014	0.021	
67	Sacramento	2020	UBUS	Aggregated	5	DSL	710.699439	3.569630191	22.8208523	39.75260845	24.43940736	3326.743834	0.266305503	0.254785245		1.9%		0.068	0.438	
68																0.0%		0.000	0.000	
69	Total VMT for all classes						37,059										100.0%			
70																		ROG_RUNEX	TOG_RUNEX	
71																		(g/VMT)	(g/VMT)	
72																		0.6569625	1.412607074	

	T	U	V	W	X
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
18	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
19	0.009	0.056056443	11.078	0.000	0.000
20	0.031	0.002643572	20.877	0.000	0.000
21	0.001	4.75274E-05	0.155	0.000	0.000
22	0.006	0.000529478	1.903	0.000	0.000
23	0.000	4.13889E-06	0.005	0.000	0.000
24	0.016	0.00167677	10.763	0.000	0.000
25	0.000	2.50357E-06	0.013	0.000	0.000
26	1.098	0.204792663	435.384	0.003	0.003
27	0.651	0.626613882	246.657	0.023	0.022
28	0.095	0.020952714	76.245	0.000	0.000
29	0.208	0.145386236	88.350	0.005	0.005
30	0.015	0.000388124	0.140	0.000	0.000
31	0.017	0.001907073	8.664	0.000	0.000
32	0.000	1.39081E-05	0.090	0.000	0.000
33	0.081	0.007053308	26.205	0.000	0.000
34	0.004	0.026354562	3.418	0.001	0.001
35	0.013	0.0584479	10.361	0.000	0.000
36	0.029	0.007811863	34.401	0.000	0.000
37	0.005	0.001464761	3.266	0.000	0.000
38	0.006	0.079416494	10.156	0.001	0.001
39	0.020	0.065994707	9.015	0.004	0.004
40	0.001	0.005227158	1.264	0.000	0.000
41	0.003	0.015780717	3.839	0.000	0.000
42	0.003	0.023179982	4.564	0.000	0.000
43	0.031	0.153100896	33.803	0.001	0.001
44	0.043	0.262689816	58.574	0.001	0.001
45	0.143	0.672275137	144.186	0.005	0.005
46	0.000	0.00304059	0.726	0.000	0.000
47	0.002	0.009041758	2.200	0.000	0.000
48	0.014	0.193278904	32.428	0.001	0.001
49	0.001	0.003403604	1.342	0.000	0.000

	T	U	V	W	X
50	0.134	0.028263519	84.743	0.000	0.000
51	0.007	0.014631537	1.598	0.001	0.001
52	0.064	0.306274937	43.694	0.000	0.000
53	0.003	0.013882113	1.999	0.000	0.000
54	0.057	0.308294333	50.205	0.000	0.000
55	0.025	0.121915158	17.292	0.000	0.000
56	0.001	0.00356114	0.553	0.000	0.000
57	0.002	0.007390061	1.125	0.000	0.000
58	0.019	0.215332818	31.345	0.001	0.001
59	0.039	0.216367278	42.754	0.001	0.000
60	0.005	0.028215596	5.295	0.000	0.000
61	0.588	0.717422109	299.933	0.001	0.001
62	0.044	0.200163114	29.988	0.000	0.000
63	0.005	0.02743801	3.980	0.000	0.000
64	0.000	0.000435149	0.153	0.000	0.000
65	0.069	0.006027483	4.088	0.000	0.000
66	0.099	0.028805186	56.928	0.000	0.000
67	0.762	0.468684917	63.798	0.005	0.005
68	0.000	0	0.000	0.000	0.000
69					
70	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
71	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
72	4.466834733	5.361681649	2019.542058	0.056710083	0.054102478

CO Emissions Calculations
EMFAC Year 2035 Emissions Factors

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
1	Sheet Purpose									Analysis Year		2035								
2	Computes weighted vehicle emission factors (grey box) based on EMFAC output (blue box).																			
3	User Inputs									EMFAC2014 run file name:										
4	EMFAC output (blue box). Note that an example run is currently used to populate the cells.									EMFAC2014-ER-2011Class-SacramentoMetropolitanAQMD-2035-Annual-20151202111523.csv										
5	Sheet Outputs																			
6	Weighted running exhaust emission factors for input into the "Emissions Summary" tab (green box).																			
7																				
8																				
9	EMFAC2014 (v1.0.7) Emission Rates																			
10	Region Type: Air District																			
11	Region: Sacramento Metropolitan AQMD																			
12	Calendar Year: 2020																			
13	Season: Annual																			
14	Vehicle Classification: EMFAC2011 Categories																			
15	Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW																			
16																				
17	Area	CalYr	Veh	MdYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	% of total	ROG_RUNEX	TOG_RUNEX			
18					(Miles/hr)		(veh-mi/day)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	VMT	(g/VMT)	(g/VMT)			
19	Sacramento	2035	All Other Bu	Aggregated	5	DSL	178.8208704	0.266665452	0.303578319	1.403639398	11.31306902	2149.334372	0.006705161	0.006415099	0.6%	0.002	0.002			
20	Sacramento	2035	LDA	Aggregated	5	GAS	910.1446457	0.030745024	0.044863067	0.642564093	0.045584967	648.0770121	0.006811537	0.006262957	3.0%	0.001	0.001			
21	Sacramento	2035	LDA	Aggregated	5	DSL	12.42008682	0.089165196	0.101508647	2.681597643	0.050630477	487.3288999	0.002620176	0.002506829	0.0%	0.000	0.000			
22	Sacramento	2035	LDT1	Aggregated	5	GAS	63.0390436	0.042480047	0.061986785	0.791246119	0.061108608	714.3447238	0.007278973	0.006692747	0.2%	0.000	0.000			
23	Sacramento	2035	LDT1	Aggregated	5	DSL	0.043812573	0.301416525	0.343142675	2.848258029	0.332825379	620.5550423	0.059719893	0.057136437	0.0%	0.000	0.000			
24	Sacramento	2035	LDT2	Aggregated	5	GAS	394.2497345	0.042133477	0.06148107	0.850850508	0.061488623	821.450778	0.006957056	0.006396756	1.3%	0.001	0.001			
25	Sacramento	2035	LDT2	Aggregated	5	DSL	0.856513073	0.263488046	0.299963623	2.664512264	0.152820588	604.8398172	0.009468964	0.00905934	0.0%	0.000	0.000			
26	Sacramento	2035	LHD1	Aggregated	5	GAS	5068.288719	0.065653629	0.095801621	0.529834388	0.23240553	1318.45404	0.007580169	0.006969686	16.7%	0.011	0.016			
27	Sacramento	2035	LHD1	Aggregated	5	DSL	5104.780549	0.771632562	0.87845237	3.51033377	0.898250119	1158.033356	0.035195558	0.033673013	16.8%	0.129	0.147			
28	Sacramento	2035	LHD2	Aggregated	5	GAS	1568.021325	0.025433229	0.037112108	0.23584997	0.079391636	1377.232082	0.007554627	0.006946201	5.2%	0.001	0.002			
29	Sacramento	2035	LHD2	Aggregated	5	DSL	2383.536429	0.745049957	0.848189842	3.304992278	0.36981181	1196.855945	0.019775031	0.018919572	7.8%	0.058	0.066			
30	Sacramento	2035	MCY	Aggregated	5	GAS	10.00988679	12.64805521	15.84485178	45.05338743	1.654074369	565.361137	0.013221577	0.012328202	0.0%	0.004	0.005			
31	Sacramento	2035	MDV	Aggregated	5	GAS	188.8176507	0.065774085	0.09597739	1.104746328	0.100293625	1100.08625	0.007366972	0.006773659	0.6%	0.000	0.001			
32	Sacramento	2035	MDV	Aggregated	5	DSL	5.154417511	0.105058361	0.119601959	3.051604053	0.058844304	749.1332295	0.003144073	0.003008061	0.0%	0.000	0.000			
33	Sacramento	2035	MH	Aggregated	5	GAS	168.282603	0.106059472	0.154761732	0.676472817	0.303096958	3702.930527	0.00763809	0.007022942	0.6%	0.001	0.001			
34	Sacramento	2035	MH	Aggregated	5	DSL	44.16720348	0.826547304	0.940969153	2.183412228	11.42872506	2011.032362	0.096051769	0.091896612	0.1%	0.001	0.001			
35	Sacramento	2035	Motor Coac	Aggregated	5	DSL	148.4958331	0.504858993	0.574743533	2.981075074	17.44428893	3018.730103	0.009461077	0.009051795	0.5%	0.002	0.003			
36	Sacramento	2035	OBUS	Aggregated	5	GAS	323.5865524	0.080834536	0.117953566	0.49184288	0.206494921	3669.421141	0.007623875	0.007009871	1.1%	0.001	0.001			
37	Sacramento	2035	SBUS	Aggregated	5	GAS	101.4379984	0.057501323	0.083905796	0.327262758	0.166859133	1748.122772	0.007033874	0.006467388	0.3%	0.000	0.000			
38	Sacramento	2035	SBUS	Aggregated	5	DSL	159.9099458	0.280581202	0.31942034	1.249628433	9.393479599	2141.468304	0.009884587	0.009456984	0.5%	0.001	0.002			
39	Sacramento	2035	T6 Ag	Aggregated	5	DSL	141.5869217	0.290930226	0.331201917	1.531361202	11.82223388	2175.349595	0.007427003	0.007105714	0.5%	0.001	0.002			
40	Sacramento	2035	T6 CAIRP he	Aggregated	5	DSL	26.96933681	0.227409684	0.258888614	1.19700992	9.465661708	2092.518661	0.005460296	0.005224086	0.1%	0.000	0.000			
41	Sacramento	2035	T6 CAIRP sm	Aggregated	5	DSL	82.78920778	0.215246538	0.245041798	1.132987111	8.754741518	2109.745485	0.005062596	0.00484359	0.3%	0.001	0.001			
42	Sacramento	2035	T6 instate cc	Aggregated	5	DSL	135.7294129	0.259584018	0.295516645	1.365177783	11.06387591	2130.41346	0.006517907	0.006235945	0.4%	0.001	0.001			
43	Sacramento	2035	T6 instate cc	Aggregated	5	DSL	1022.754855	0.237226724	0.270064567	1.24757176	9.98087876	2119.445865	0.00579901	0.005548148	3.4%	0.008	0.009			
44	Sacramento	2035	T6 instate he	Aggregated	5	DSL	1130.436262	0.257362866	0.292988032	1.354673638	10.7923469	2112.488438	0.00640414	0.006127099	3.7%	0.010	0.011			
45	Sacramento	2035	T6 instate sr	Aggregated	5	DSL	2856.84218	0.238946958	0.272022922	1.257738342	10.06575424	2122.427672	0.005830809	0.00557857	9.4%	0.022	0.026			
46	Sacramento	2035	T6 OOS heav	Aggregated	5	DSL	15.45241644	0.22758757	0.259091125	1.197946256	9.472123772	2092.613347	0.005465785	0.005229338	0.1%	0.000	0.000			
47	Sacramento	2035	T6 OOS sma	Aggregated	5	DSL	47.43510471	0.215246538	0.245041798	1.132987111	8.754741518	2109.745485	0.005062596	0.00484359	0.2%	0.000	0.000			
48	Sacramento	2035	T6 Public	Aggregated	5	DSL	591.7500982	0.219172576	0.249511294	1.005876712	7.635114706	2135.025678	0.01111591	0.01063504	1.9%	0.004	0.005			
49	Sacramento	2035	T6 utility	Aggregated	5	DSL	25.59225322	0.177938922	0.202569918	0.93661207	6.424396545	2111.246257	0.003830913	0.003665189	0.1%	0.000	0.000			

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
50	Sacramento	2035	T6TS	Aggregated	5	GAS	613.7226885	0.087126752	0.127135152	0.553611136	0.223057834	3674.137661	0.007477753	0.006875517		2.0%		0.002	0.003	
51	Sacramento	2035	T7 Ag	Aggregated	5	DSL	16.92744565	0.68166895	0.77602821	4.025096796	21.24399096	3010.315947	0.013532056	0.012946665		0.1%		0.000	0.000	
52	Sacramento	2035	T7 CAIRP	Aggregated	5	DSL	663.0757238	0.568434311	0.647119193	3.356472558	20.60764917	2767.942896	0.011060729	0.010582246		2.2%		0.012	0.014	
53	Sacramento	2035	T7 CAIRP col	Aggregated	5	DSL	43.40785972	0.581980211	0.662540169	3.434709163	21.38024343	2790.172895	0.011432344	0.010937786		0.1%		0.001	0.001	
54	Sacramento	2035	T7 NNOOS	Aggregated	5	DSL	822.2147225	0.497132462	0.565947466	2.935451703	17.19919597	2760.50006	0.009272751	0.008871616		2.7%		0.013	0.015	
55	Sacramento	2035	T7 NOOS	Aggregated	5	DSL	261.9147153	0.56877766	0.647510069	3.358499951	20.61493752	2768.253296	0.011068623	0.010589799		0.9%		0.005	0.006	
56	Sacramento	2035	T7 other por	Aggregated	5	DSL	8.615484253	0.619916195	0.705727399	3.660461122	23.39254377	2784.96641	0.012377461	0.011842017		0.0%		0.000	0.000	
57	Sacramento	2035	T7 POAK	Aggregated	5	DSL	25.08532556	0.623629417	0.709954619	3.682386833	23.5798428	2784.96641	0.012471353	0.011931848		0.1%		0.001	0.001	
58	Sacramento	2035	T7 Public	Aggregated	5	DSL	448.5685598	0.497541903	0.566413583	2.278880638	13.72466313	2928.481969	0.027305064	0.026123859		1.5%		0.007	0.008	
59	Sacramento	2035	T7 Single	Aggregated	5	DSL	910.7611395	0.471217687	0.536445467	2.782430978	15.44007531	2815.712766	0.008583221	0.008211914		3.0%		0.014	0.016	
60	Sacramento	2035	T7 single cor	Aggregated	5	DSL	112.2904218	0.483025388	0.549887635	2.842402041	15.70760126	2832.257394	0.009067052	0.008674815		0.4%		0.002	0.002	
61	Sacramento	2035	T7 SWCV	Aggregated	5	DSL	2126.185143	0.203613326	5.898315944	19.36587818	3.962336984	5879.799014	0.010371951	0.009923265		7.0%		0.014	0.412	
62	Sacramento	2035	T7 tractor	Aggregated	5	DSL	452.1059287	0.589676911	0.671302276	3.481905173	21.23652682	2786.934846	0.011562503	0.011062314		1.5%		0.009	0.010	
63	Sacramento	2035	T7 tractor co	Aggregated	5	DSL	83.72080882	0.606782039	0.690775162	3.579906	22.11852806	2815.74279	0.01204153	0.011520619		0.3%		0.002	0.002	
64	Sacramento	2035	T7 utility	Aggregated	5	DSL	2.11300757	0.368044267	0.418990381	2.173215896	10.47440475	2809.628987	0.005998545	0.005739051		0.0%		0.000	0.000	
65	Sacramento	2035	T7IS	Aggregated	5	GAS	33.76985677	2.075895849	3.02914235	54.17082653	5.630586384	3805.091444	0.007606665	0.006994048		0.1%		0.002	0.003	
66	Sacramento	2035	UBUS	Aggregated	5	GAS	430.9095424	0.294611867	0.429896945	2.186175981	1.016732366	3717.418113	0.007112333	0.006539528		1.4%		0.004	0.006	
67	Sacramento	2035	UBUS	Aggregated	5	DSL	450.7524336	1.116071683	13.48488795	40.63069509	7.2363988	2975.199805	0.049826537	0.047671063		1.5%		0.017	0.200	
68																0.0%		0.000	0.000	
69	Total VMT for all classes						30,418										100.0%			
70																		ROG_RUNEX	TOG_RUNEX	
71																		(g/VMT)	(g/VMT)	
72																		0.368136157	1.004390746	

	T	U	V	W	X
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
18	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
19	0.008	0.066508096	12.636	0.000	0.000
20	0.019	0.00136398	19.392	0.000	0.000
21	0.001	2.06734E-05	0.199	0.000	0.000
22	0.002	0.000126645	1.480	0.000	0.000
23	0.000	4.79392E-07	0.001	0.000	0.000
24	0.011	0.00079697	10.647	0.000	0.000
25	0.000	4.3032E-06	0.017	0.000	0.000
26	0.088	0.038724309	219.686	0.001	0.001
27	0.589	0.15074754	194.345	0.006	0.006
28	0.012	0.004092631	70.996	0.000	0.000
29	0.259	0.02897867	93.786	0.002	0.001
30	0.015	0.000544327	0.186	0.000	0.000
31	0.007	0.000622575	6.829	0.000	0.000
32	0.001	9.97149E-06	0.127	0.000	0.000
33	0.004	0.001676859	20.486	0.000	0.000
34	0.003	0.016594859	2.920	0.000	0.000
35	0.015	0.085161522	14.737	0.000	0.000
36	0.005	0.002196725	39.036	0.000	0.000
37	0.001	0.00055645	5.830	0.000	0.000
38	0.007	0.049383043	11.258	0.000	0.000
39	0.007	0.055029879	10.126	0.000	0.000
40	0.001	0.008392612	1.855	0.000	0.000
41	0.003	0.023828293	5.742	0.000	0.000
42	0.006	0.049369319	9.506	0.000	0.000
43	0.042	0.335595558	71.264	0.000	0.000
44	0.050	0.401086321	78.508	0.000	0.000
45	0.118	0.945384431	199.340	0.001	0.001
46	0.001	0.004811934	1.063	0.000	0.000
47	0.002	0.013652716	3.290	0.000	0.000
48	0.020	0.148535335	41.535	0.000	0.000
49	0.001	0.005405262	1.776	0.000	0.000

	T	U	V	W	X
50	0.011	0.004500549	74.132	0.000	0.000
51	0.002	0.011822339	1.675	0.000	0.000
52	0.073	0.449228658	60.339	0.000	0.000
53	0.005	0.030511032	3.982	0.000	0.000
54	0.079	0.464910407	74.619	0.000	0.000
55	0.029	0.177507945	23.836	0.000	0.000
56	0.001	0.006625719	0.789	0.000	0.000
57	0.003	0.019446279	2.297	0.000	0.000
58	0.034	0.202398084	43.186	0.000	0.000
59	0.083	0.462306266	84.308	0.000	0.000
60	0.010	0.057986708	10.456	0.000	0.000
61	1.354	0.276967213	410.998	0.001	0.001
62	0.052	0.315645474	41.423	0.000	0.000
63	0.010	0.06087872	7.750	0.000	0.000
64	0.000	0.000727623	0.195	0.000	0.000
65	0.060	0.006251133	4.224	0.000	0.000
66	0.031	0.01440352	52.663	0.000	0.000
67	0.602	0.107234973	44.089	0.001	0.001
68	0.000	0	0.000	0.000	0.000
69					
70	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
71	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)	(g/VMT)
72	3.736811436	5.108554932	2089.561837	0.01443343	0.013718947

CO Emissions Calculations

EF Summary

Sheet Purpose

Summarizes weighted vehicle emission factors from the EMFAC output tab (grey box). Presents CO only weighted emission factors in the green box.

User Inputs

None

Sheet Outputs

Weighted CO running exhaust emission factor for input into Caline (green box)

Year	ROG_RUNEX (g/VMT)	TOG_RUNEX (g/VMT)	CO_RUNEX (g/VMT)	NOX_RUNEX (g/VMT)	CO2_RUNEX (g/VMT)	PM10_RUNEX (g/VMT)	PM2_5_RUNEX (g/VMT)
2014	0.973463099	1.703537309	5.909926455	5.021158131	1825.018376	0.115893167	0.110614085
2020	0.6569625	1.412607074	4.466834733	5.361681649	2019.542058	0.056710083	0.054102478
2035	0.368136157	1.004390746	3.736811436	5.108554932	2089.561837	0.01443343	0.013718947

Year	CO_RUNEX (g/VMT)
2014	5.91
2020	4.47
2035	3.74

CO Emissions Calculations

Geometry

Sheet Purpose

Computes roadway geometry and link locations.

User Inputs

Intersection name, number of lanes for each approach direction, receptor locations (blue boxes).

Sheet Outputs

Mixing zone and link locations for input into Caline (green box).

Parameter	Feet	Meters
Width of lane	12	3.6576
Mixing zone buffer (3m each side)	-	6
Length of line to make it infinite*	-	1000

*Center of the intersection is the origin

Roadway Geometry*						
#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected**
Park Blvd. EBA	Approach	EBA	3	11.0	17.0	17.0
US50 Onramp EBD	Depart	EBD	2	7.3	13.3	13.3
US50 Offramp WBA	Approach	WBA	3	11.0	17.0	17.0
Park Blvd WBD	Depart	WBD	2	7.3	13.3	13.3
Jeff. Blvd. SBA	Approach	SBA	4	14.6	20.6	20.6
Jeff. Blvd. SBD	Depart	SBD	2	7.3	13.3	13.3
Jeff. Blvd. NBA	Approach	NBA	3	11.0	17.0	17.0
Jeff. Blvd. NBD	Depart	NBD	3	11.0	17.0	17.0

*A T-shaped intersection only requires six (6) links

**Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	-5.4864	0	-5.4864
0	-3.6576	1000	-3.6576
1000	5.4864	0	5.4864
0	3.6576	-1000	3.6576
-7.3152	1000	-7.3152	0
-3.6576	0	-3.6576	-1000
5.4864	-1000	5.4864	0
5.4864	0	5.4864	1000

Receptor Locations		
ID	X	Y
1	-17.63	10.32
2	13.97	13.97
3	-10.32	-13.97
4	13.97	-10.32

are obtained from Caline and should be inserted here for reporting purposes. To

#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps										
Name	Link Geometry Text String for CL4 Input									
EBA	1	-1000	-5.49	0	-5.49	0.00	16.97	0.00	0.00	0
EBD	1	0	-3.66	1000	-3.66	0.00	13.32	0.00	0.00	0
WBA	1	1000	5.49	0	5.49	0.00	16.97	0.00	0.00	0
WBD	1	0	3.66	-1000	3.66	0.00	13.32	0.00	0.00	0
SBA	1	-7.32	1000	-7.32	0	0.00	20.63	0.00	0.00	0
SBD	1	-3.66	0	-3.66	-1000	0.00	13.32	0.00	0.00	0
NBA	1	5.49	-1000	5.49	0	0.00	16.97	0.00	0.00	0
NBD	1	5.49	0	5.49	1000	0.00	16.97	0.00	0.00	0

Roadway Geometry*						
#12 Jefferson Blvd. & Devon Ave./Gateway Dr.						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected
Devon Ave. EBA	Approach	EBA	2	7.3	13.3	13.3
Gateway Dr. EBD	Depart	EBD	2	7.3	13.3	13.3
Gateway Dr. WBA	Approach	WBA	3	11.0	17.0	17.0
Devon Ave. WBD	Depart	WBD	1	3.7	9.7	10.0
Jeff. Blvd SBA	Approach	SBA	4	14.6	20.6	20.6
Jeff. Blvd SBD	Depart	SBD	2	7.3	13.3	13.3
Jeff. Blvd NBA	Approach	NBA	3	11.0	17.0	17.0
Jeff. Blvd NBD	Depart	NBD	2	7.3	13.3	13.3

*A T-shaped intersection only requires six (6) links

**Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	-3.6576	0	-3.6576
0	-3.6576	1000	-3.6576
1000	5.4864	0	5.4864
0	1.8288	-1000	1.8288
-7.3152	1000	-7.3152	0
-3.6576	0	-3.6576	-1000
5.4864	-1000	5.4864	0
3.6576	0	3.6576	1000

Receptor Locations		
ID	X	Y
1	-17.63	6.83
2	10.32	13.97
3	-10.32	-10.32
4	13.97	-10.32

are obtained from Caline and should be inserted here for reporting purposes. To

#12 Jefferson Blvd. & Devon Ave./Gateway Dr.										
Name	Link Geometry Text String for CL4 Input									
EBA	1	-1000	-3.66	0	-3.66	0.00	13.32	0.00	0.00	0
EBD	1	0	-3.66	1000	-3.66	0.00	13.32	0.00	0.00	0
WBA	1	1000	5.49	0	5.49	0.00	16.97	0.00	0.00	0
WBD	1	0	1.83	-1000	1.83	0.00	10	0.00	0.00	0
SBA	1	-7.32	1000	-7.32	0	0.00	20.63	0.00	0.00	0
SBD	1	-3.66	0	-3.66	-1000	0.00	13.32	0.00	0.00	0
NBA	1	5.49	-1000	5.49	0	0.00	16.97	0.00	0.00	0
NBD	1	3.66	0	3.66	1000	0.00	13.32	0.00	0.00	0

Roadway Geometry*						
#13 Jefferson Blvd. & Lake Washington Blvd.						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected
Lake Wash. EBA	Approach	EBA	4	14.6	20.6	20.6
Lake Wash. EBD	Depart	EBD	2	7.3	13.3	13.3
Lake Wash. WBA	Approach	WBA	5	18.3	24.3	24.3
Lake Wash. WBD	Depart	WBD	3	11.0	17.0	17.0
Jeff. Blvd SBA	Approach	SBA	5	18.3	24.3	24.3
Jeff. Blvd SBD	Depart	SBD	3	11.0	17.0	17.0
Jeff. Blvd NBA	Approach	NBA	5	18.3	24.3	24.3
Jeff. Blvd NBD	Depart	NBD	2	7.3	13.3	13.3

*A T-shaped intersection only requires six (6) links

**Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	-7.3152	0	-7.3152
0	-3.6576	1000	-3.6576
1000	9.144	0	9.144
0	5.4864	-1000	5.4864
-9.144	1000	-9.144	0
-5.4864	0	-5.4864	-1000
9.144	-1000	9.144	0
3.6576	0	3.6576	1000

Receptor Locations		
ID	X	Y
1	-21.29	13.97
2	10.32	21.29
3	-13.97	-17.63
4	21.29	-10.32

are obtained from Caline and should be inserted here for reporting purposes. To

#13 Jefferson Blvd. & Lake Washington Blvd.										
Name	Link Geometry Text String for CL4 Input									
EBA	1	-1000	-7.32	0	-7.32	0.00	20.63	0.00	0.00	0
EBD	1	0	-3.66	1000	-3.66	0.00	13.32	0.00	0.00	0
WBA	1	1000	9.14	0	9.14	0.00	24.29	0.00	0.00	0
WBD	1	0	5.49	-1000	5.49	0.00	16.97	0.00	0.00	0
SBA	1	-9.14	1000	-9.14	0	0.00	24.29	0.00	0.00	0
SBD	1	-5.49	0	-5.49	-1000	0.00	16.97	0.00	0.00	0
NBA	1	9.14	-1000	9.14	0	0.00	24.29	0.00	0.00	0
NBD	1	3.66	0	3.66	1000	0.00	13.32	0.00	0.00	0

Roadway Geometry*

#40 Riverfront St./3rd St. & Tower Bridge Gateway						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected mixing zone
Tower Br. EBA	Approach	EBA	3	11.0	17.0	17.0
Tower Br. EBD	Depart	EBD	2	7.3	13.3	13.3
Tower Br. WBA	Approach	WBA	2	7.3	13.3	13.3
Tower Br. WBD	Depart	WBD	2	7.3	13.3	13.3
3rd St. SBA	Approach	SBA	3	11.0	17.0	17.0
Riverfront SBD	Depart	SBD	2	7.3	13.3	13.3
Riverfront NBA	Approach	NBA	3	11.0	17.0	17.0
3rd St. NBD	Depart	NBD	2	7.3	13.3	13.3

*A T-shaped intersection only requires six (6) links
 **Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	-5.4864	0	-5.4864
0	-3.6576	1000	-3.6576
1000	3.6576	0	3.6576
0	3.6576	-1000	3.6576
-5.4864	1000	-5.4864	0
-3.6576	0	-3.6576	-1000
5.4864	-1000	5.4864	0
3.6576	0	3.6576	1000

Receptor Locations		
ID	X	Y
1	-13.97	10.32
2	10.32	10.32
3	-10.32	-13.97
4	13.97	-10.32

are obtained from Caline and should be inserted here for reporting purposes. To

#40 Riverfront St./3rd St. & Tower Bridge Gateway										
Link Geometry Text String for CL4 Input										
EBA	1	-1000	-5.49	0	-5.49	0.00	16.97	0.00	0.00	0
EBD	1	0	-3.66	1000	-3.66	0.00	13.32	0.00	0.00	0
WBA	1	1000	3.66	0	3.66	0.00	13.32	0.00	0.00	0
WBD	1	0	3.66	-1000	3.66	0.00	13.32	0.00	0.00	0
SBA	1	-5.49	1000	-5.49	0	0.00	16.97	0.00	0.00	0
SBD	1	-3.66	0	-3.66	-1000	0.00	13.32	0.00	0.00	0
NBA	1	5.49	-1000	5.49	0	0.00	16.97	0.00	0.00	0
NBD	1	3.66	0	3.66	1000	0.00	13.32	0.00	0.00	0

Roadway Geometry*						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected mixing zone
Intersection E						
Eastbound	Approach	EBA		0.0	6.0	10.0
Eastbound	Depart	EBD		0.0	6.0	10.0
Westbound	Approach	WBA		0.0	6.0	10.0
Westbound	Depart	WBD		0.0	6.0	10.0
Southbound	Approach	SBA		0.0	6.0	10.0
Southbound	Depart	SBD		0.0	6.0	10.0
Northbound	Approach	NBA		0.0	6.0	10.0
Northbound	Depart	NBD		0.0	6.0	10.0

*A T-shaped intersection only requires six (6) links
 **Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	0	0	0
0	0	1000	0
1000	0	0	0
0	0	-1000	0
0	1000	0	0
0	0	0	-1000
0	-1000	0	0
0	0	0	1000

Receptor Locations		
ID	X	Y
1	-5.00	5.00
2	5.00	5.00
3	-5.00	-5.00
4	5.00	-5.00

* Receptor locations are obtained from Caline and should be inserted here for reporting purposes. To obtain the receptor locations, insert the intersection links and then create discrete receptors at the mixing zone corners.

Roadway Geometry*						
	Direction	Caline Name	# of lanes	right of way	raw mixing zone	corrected mixing zone
Intersection F						
Eastbound	Approach	EBA		0.0	6.0	10.0
Eastbound	Depart	EBD		0.0	6.0	10.0
Westbound	Approach	WBA		0.0	6.0	10.0
Westbound	Depart	WBD		0.0	6.0	10.0
Southbound	Approach	SBA		0.0	6.0	10.0
Southbound	Depart	SBD		0.0	6.0	10.0
Northbound	Approach	NBA		0.0	6.0	10.0
Northbound	Depart	NBD		0.0	6.0	10.0

*A T-shaped intersection only requires six (6) links
 **Mixing zone must be equal to or greater than 10

Link Locations			
X1	Y1	X2	Y2
-1000	0	0	0
0	0	1000	0
1000	0	0	0
0	0	-1000	0
0	1000	0	0
0	0	0	-1000
0	-1000	0	0
0	0	0	1000

Receptor Locations		
ID	X	Y
1	-5.00	5.00
2	5.00	5.00
3	-5.00	-5.00
4	5.00	-5.00

* Receptor locations are obtained from Caline and should be inserted here for reporting purposes. To obtain the receptor locations, insert the intersection links and then create discrete receptors at the mixing zone corners.

CO Emissions Calculations

Flow Rates

Sheet Purpose

Computes combined flowrates based on intersection traffic data (blue boxes).

User Inputs

Intersection traffic data for each intersection and run condition (blue boxes).

Sheet Outputs

Combined flowrates for each intersection and run condition (green box).

Run	1						
Scenario	Existing 2014						
Analysis Year	2014						
EF	5.9099						
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway		Intersection E	Intersection F
Approach							
Eastbound							
Left Turn	84	-	227	38			
Through	125	57	229	867			
Right Turn	14	41	376	6			
Westbound							
Left Turn	832	3	473	60			
Through	108	23	34	927			
Right Turn	441	12	101	61			
Southbound							
Left Turn	394	204	501	193			
Through	125	57	229	867			
Right Turn	14	41	376	6			
Northbound							
Left Turn	-	55	222	1			
Through	482	1,012	685	2			
Right Turn	454	20	27	27			

*The greater of the AM and PM peak are used

	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway		Intersection E	Intersection F
Existing 2014 Combined Flowrates							
EB - Approach	223	98	832	911	0	0	
EB - Depart	973	281	757	1087	0	0	
WB - Approach	1381	38	608	1048	0	0	
WB - Depart	122	119	632	934	0	0	

SB - Approach	533	302	1106	1066	0	0
SB - Depart	971	101	1078	933	0	0
NB - Approach	936	1087	934	30	0	0
NB - Depart	1007	1024	1013	101	0	0

Text string for CL4 input 223.00 973.00 98.00 281.00 3 832.00 757.00 911.00 1087.00 1048.00 934.00 1066.00 933.00 30.00 1

Run	2					
Scenario	Plan Scenario - Interim 2020					
Analysis Year	2020					
EF	4.4668					
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Approach						
Eastbound						
Left Turn	85	45	294	39		
Through	130	2	390	933		
Right Turn	14	23	464	18		
Westbound						
Left Turn	832	13	34	90		
Through	103	4	112	937		
Right Turn	417	55	186	80		
Southbound						
Left Turn	358	192	514	194		
Through	130	2	390	933		
Right Turn	14	23	464	18		
Northbound						
Left Turn	0	55	227	7		
Through	512	1089	688	7		
Right Turn	521	14	28	41		

*The greater of the AM and PM peak are used

Plan Scenario - Interim 2020 Combined Flowrates	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
EB - Approach	229	70	1148	990	0	0
EB - Depart	1009	208	932	1168	0	0
WB - Approach	1352	72	332	1107	0	0
WB - Depart	117	82	803	962	0	0
SB - Approach	502	217	1368	1145	0	0
SB - Depart	976	38	888	1041	0	0

NB - Approach	1033	1158	943	55	0	0
NB - Depart	1014	1189	1168	126	0	0

Text string for CL4 input 229.00 1009.0(70.00 208.00 7 1148.00 932.0(990.00 1168.00 1107.00 962.00 1145.00 1041.00 55.00

Run	3					
Scenario	Plan Scenario - Design 2035					
Analysis Year	2035					
EF	3.7368					
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Approach						
Eastbound						
Left Turn	109	50	533	159		
Through	253	3	444	1052		
Right Turn	16	23	605	67		
Westbound						
Left Turn	498	16	38	902		
Through	201	3	121	701		
Right Turn	813	2	126	115		
Southbound						
Left Turn	1030	70	396	355		
Through	253	3	444	1052		
Right Turn	16	23	605	67		
Northbound						
Left Turn	0	55	366	81		
Through	749	1523	881	473		
Right Turn	799	28	39	761		

*The greater of the AM and PM peak are used

	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Plan Scenario - Design 2035 Combined Flowrates						
EB - Approach	378	76	1582	1278	0	0
EB - Depart	2082	101	879	2168	0	0
WB - Approach	1512	21	285	1718	0	0
WB - Depart	217	81	1092	849	0	0
SB - Approach	1299	96	1445	1474	0	0
SB - Depart	767	42	1087	2021	0	0
NB - Approach	1548	1606	1286	1315	0	0
NB - Depart	1671	1575	1540	747	0	0

Text string for CL4 input 378.00 2082.00 76.00 101.00 21582.00 879.00 1278.00 2168.00 1718.00 849.00 1474.00 2021.00 1315

CO Emissions Calculations

CO Results

Sheet Purpose

Computes maximum 1 hour and 8 hour CO concentrations at studied intersections

User Inputs

Background CO concentrations, persistence factor, and max 1-hour CO concentration from Caline (blue boxes)

Sheet Outputs

Max 1-hour and max 8-hour concentrations with background levels (green boxes)

Persistence Factor*	0.7
Background CO 1-hour	1.966666667
Background CO 8-hour	1.533333333

* 0.6 = urban; 0.7 = rural; 0.8 = heavily congested
Used PF=0.7 for conservatism; area is actually urban.

2012	2013	2014
1.9	1.9	2.1
1.6	1.7	1.3

*Background CO concentrations (from ARB and EPA)
Site: 06-067-0014, Sacramento-Goldenland Court. Nearest monit

Run	1					
Scenario	Existing 2014					
Analysis Year	2014					
Max 1-hour (no background)						
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Receptor						
1	1.8	0.7	1.4	1.9		
2	1.9	1.2	1.7	1.6		
3	1.8	0.8	1.7	1.6		
4	1.8	1.0	1.6	1.6		
Max 8-hour (no background)						
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Receptor						
1	1.26	0.49	0.98	1.33	0	0
2	1.33	0.84	1.19	1.12	0	0
3	1.26	0.56	1.19	1.12	0	0
4	1.26	0.7	1.12	1.12	0	0
Max 1-hour (with background)						
	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
Receptor						
1	3.77	2.67	3.37	3.87	1.97	1.97
2	3.87	3.17	3.67	3.57	1.97	1.97
3	3.77	2.77	3.67	3.57	1.97	1.97
4	3.77	2.97	3.57	3.57	1.97	1.97

Max 8-hour (with background)

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	2.79	2.02	2.51	2.86	1.53	1.53
2	2.86	2.37	2.72	2.65	1.53	1.53
3	2.79	2.09	2.72	2.65	1.53	1.53
4	2.79	2.23	2.65	2.65	1.53	1.53

Run 2
Scenario io - Interim 2020
Analysis Year 2020

Max 1-hour (no background)

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	1.3	0.5	1.1	1.5		
2	1.5	0.9	1.2	1.3		
3	1.4	0.6	1.5	1.3		
4	1.4	0.8	1.4	1.3		

Max 8-hour (no background)

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	0.91	0.35	0.77	1.05	0	0
2	1.05	0.63	0.84	0.91	0	0
3	0.98	0.42	1.05	0.91	0	0
4	0.98	0.56	0.98	0.91	0	0

Max 1-hour (with background)

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	3.27	2.47	3.07	3.47	1.97	1.97
2	3.47	2.87	3.17	3.27	1.97	1.97
3	3.37	2.57	3.47	3.27	1.97	1.97
4	3.37	2.77	3.37	3.27	1.97	1.97

Max 8-hour (with background)

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	2.44	1.88	2.30	2.58	1.53	1.53
2	2.58	2.16	2.37	2.44	1.53	1.53
3	2.51	1.95	2.58	2.44	1.53	1.53
4	2.51	2.09	2.51	2.44	1.53	1.53

Run 3						
Scenario Plan Scenario - Design 2035						
Analysis Year 2035						
Max 1-hour (no background)						
Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	1.7	0.4	1.2	1.8		
2	1.6	1.0	1.3	2.0		
3	1.6	0.6	1.5	2.0		
4	1.9	0.8	1.4	1.7		
Max 8-hour (no background)						
Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	1.19	0.28	0.84	1.26	0	0
2	1.12	0.7	0.91	1.40	0	0
3	1.12	0.42	1.05	1.40	0	0
4	1.33	0.56	0.98	1.19	0	0
Max 1-hour (with background)						
Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	3.67	2.37	3.17	3.77	1.97	1.97
2	3.57	2.97	3.27	3.97	1.97	1.97
3	3.57	2.57	3.47	3.97	1.97	1.97
4	3.87	2.77	3.37	3.67	1.97	1.97
Max 8-hour (with background)						

Receptor	#7 Jefferson Blvd. & Park Blvd./US 50 WB Ramps	#12 Jefferson Blvd. & Devon Ave./Gateway Dr.	#13 Jefferson Blvd. & Lake Washington Blvd.	#40 Riverfront St./3rd St. & Tower Bridge Gateway	Intersection E	Intersection F
1	2.72	1.81	2.37	2.79	1.53	1.53
2	2.65	2.23	2.44	2.93	1.53	1.53
3	2.65	1.95	2.58	2.93	1.53	1.53
4	2.86	2.09	2.51	2.72	1.53	1.53