

**DELAY GHG EMISSIONS**

<b>HEAVY-VEHICLES</b>	5%	PERCENT (%)
<b>PASSENGER IDLING CO<sub>2</sub> EMISSIONS</b>	6.0	POUNDS OF CO <sub>2</sub> PER HOUR
<b>HEAVY-DUTY IDLING CO<sub>2</sub> EMISSIONS</b>	18.0	POUNDS OF CO <sub>2</sub> PER HOUR
<b>PASSENGER IDLING FUEL CONSUMPTION</b>	0.41	GALLONS PER HOUR
<b>HEAVY-DUTY IDLING FUEL CONSUMPTION</b>	0.82	GALLONS PER HOUR (AT LOW IDLE)

	<b>DAILY DELAY (HOUR)</b>	<b>YEARLY DELAY (HOUR)</b>
<b>2035 BUILD PM PEAK HOUR</b>	1,000.00	365,000.00

BUILD YEAR	BUILD DELAY	PASSENGER BUILD DELAY	FUEL CONSUMPTION FROM IDLING	BUILD PASSENGER CO <sub>2</sub>	BUILD PASSENGER CO <sub>2</sub>	BUILD PASSENGER CO <sub>2</sub>	BUILD HEAVY-VEHICLE DELAY	FUEL CONSUMPTION FROM IDLING	BUILD HEAVY-VEHICLE CO <sub>2</sub>	BUILD HEAVY-VEHICLE CO <sub>2</sub>	BUILD HEAVY-VEHICLE CO <sub>2</sub>	BUILD TOTAL
(YEAR)	(HOUR)	(HOUR)	(GALLONS)	(LBS)	(TONS)	(METRIC TONS)	(HOUR)	(GALLONS)	(LBS)	(TONS)	(METRIC TONS)	(METRIC TONS)
2015	182,500.00	173,375.00	71,084	1,040,250	520.125	471.983	9,125.00	7,483	164,250	82.125	74.524	546.51
2016	182,500.00	173,375.00	71,084	1,040,250	520.125	471.983	9,125.00	7,483	164,250	82.125	74.524	546.51
2017	192,105.26	182,500.00	74,825	1,095,000	547.500	496.824	9,605.26	7,876	172,895	86.447	78.446	575.27
2018	201,710.52	191,624.99	78,566	1,149,750	574.875	521.665	10,085.53	8,270	181,539	90.770	82.368	604.03
2019	211,315.78	200,749.99	82,307	1,204,500	602.250	546.506	10,565.79	8,664	190,184	95.092	86.290	632.80
2020	220,921.04	209,874.99	86,049	1,259,250	629.625	571.348	11,046.05	9,058	198,829	99.414	90.213	661.56
2021	230,526.30	218,999.99	89,790	1,314,000	657.000	596.189	11,526.32	9,452	207,474	103.737	94.135	690.32
2022	240,131.56	228,124.98	93,531	1,368,750	684.375	621.030	12,006.58	9,845	216,118	108.059	98.057	719.09
2023	249,736.82	237,249.98	97,272	1,423,500	711.750	645.871	12,486.84	10,239	224,763	112.382	101.980	747.85
2024	259,342.08	246,374.98	101,014	1,478,250	739.125	670.712	12,967.10	10,633	233,408	116.704	105.902	776.61
2025	268,947.34	255,499.97	104,755	1,533,000	766.500	695.553	13,447.37	11,027	242,053	121.026	109.824	805.38
2026	278,552.60	264,624.97	108,496	1,587,750	793.875	720.395	13,927.63	11,421	250,697	125.349	113.747	834.14
2027	288,157.86	273,749.97	112,237	1,642,500	821.250	745.236	14,407.89	11,814	259,342	129.671	117.669	862.90
2028	297,763.12	282,874.96	115,979	1,697,250	848.625	770.077	14,888.16	12,208	267,987	133.993	121.591	891.67
2029	307,368.38	291,999.96	119,720	1,752,000	876.000	794.918	15,368.42	12,602	276,632	138.316	125.513	920.43
2030	316,973.64	301,124.96	123,461	1,806,750	903.375	819.759	15,848.68	12,996	285,276	142.638	129.436	949.20
2031	326,578.90	310,249.96	127,202	1,861,500	930.750	844.601	16,328.95	13,390	293,921	146.961	133.358	977.96
2032	336,184.16	319,374.95	130,944	1,916,250	958.125	869.442	16,809.21	13,784	302,566	151.283	137.280	1,006.72
2033	345,789.42	328,499.95	134,685	1,971,000	985.500	894.283	17,289.47	14,177	311,210	155.605	141.203	1,035.49
2034	355,394.68	337,624.95	138,426	2,025,750	1,012.875	919.124	17,769.73	14,571	319,855	159.928	145.125	1,064.25
2035	365,000.00	346,750.00	142,168	2,080,500	1,040.250	943.966	18,250.00	14,965	328,500	164.250	149.047	1,093.01
			<b>2,203,596</b>		<b>PASSENGER CO<sub>2</sub> TOTALS</b>	<b>14,159.48</b>		<b>231,957</b>	<b>HEAVY-VEHICLE CO<sub>2</sub> TOTALS</b>		<b>2,235.71</b>	<b>16,395.19</b>

## VMT CALCULATIONS

<b>HEAVY-VEHICLES</b>	5%	PERCENT (%)
<b>PASSENGER MPG</b>	20.3	MPG (GASOLINE)
<b>HEAVY-DUTY MPG</b>	6.0	MPG (DIESEL)
<b>PASSENGER CO<sub>2</sub></b>	19.4	LB/GAL (GASOLINE)
<b>HEAVY-DUTY CO<sub>2</sub></b>	22.2	LB/GAL (DIESEL)

	<b>DAILY VMT (MILES)</b>	<b>YEARLY VMT (HOUR)</b>
<b>2035 BUILD PM PEAK HOUR</b>	1,500.00	547,500.00

BUILD YEAR	ANNUAL VEHICLE MILES TRAVELED	PASSENGER VMT	PASSENGER GALLONS	PASSENGER CO <sub>2</sub>	BUILD PASSENGER CO <sub>2</sub>	BUILD PASSENGER CO <sub>2</sub>	HEAVY-DUTY VMT	HEAVY-DUTY GALLONS	HEAVY-DUTY CO <sub>2</sub>	BUILD HEAVY DUTY CO <sub>2</sub>	BUILD HEAVY- DUTY CO <sub>2</sub>	BUILD TOTAL
YEAR	(VMT)	(VMT)	(GAL)	(LBS)	(TONS)	(METRIC TONS)	(VMT)	(GAL)	(LBS)	(TONS)	(METRIC TONS)	(METRIC TONS)
2015	-273,750	-260,063	-12,811	-248,533	-124	-113	-13,688	-2,281	-50,644	-25	-23	-136
2016	-273,750	-260,063	-12,811	-248,533	-124	-113	-13,688	-2,281	-50,644	-25	-23	-136
2017	-288,158	-273,750	-13,485	-261,613	-131	-119	-14,408	-2,401	-53,309	-27	-24	-143
2018	-302,566	-287,437	-14,159	-274,694	-137	-125	-15,128	-2,521	-55,975	-28	-25	-150
2019	-316,974	-301,125	-14,834	-287,775	-144	-131	-15,849	-2,641	-58,640	-29	-27	-157
2020	-331,382	-314,812	-15,508	-300,855	-150	-137	-16,569	-2,762	-61,306	-31	-28	-164
2021	-345,789	-328,500	-16,182	-313,936	-157	-142	-17,289	-2,882	-63,971	-32	-29	-171
2022	-360,197	-342,187	-16,857	-327,017	-164	-148	-18,010	-3,002	-66,637	-33	-30	-179
2023	-374,605	-355,875	-17,531	-340,097	-170	-154	-18,730	-3,122	-69,302	-35	-31	-186
2024	-389,013	-369,562	-18,205	-353,178	-177	-160	-19,451	-3,242	-71,967	-36	-33	-193
2025	-403,421	-383,250	-18,879	-366,259	-183	-166	-20,171	-3,362	-74,633	-37	-34	-200
2026	-417,829	-396,937	-19,554	-379,339	-190	-172	-20,891	-3,482	-77,298	-39	-35	-207
2027	-432,237	-410,625	-20,228	-392,420	-196	-178	-21,612	-3,602	-79,964	-40	-36	-214
2028	-446,645	-424,312	-20,902	-405,501	-203	-184	-22,332	-3,722	-82,629	-41	-37	-221
2029	-461,053	-438,000	-21,576	-418,581	-209	-190	-23,053	-3,842	-85,295	-43	-39	-229
2030	-475,460	-451,687	-22,251	-431,662	-216	-196	-23,773	-3,962	-87,960	-44	-40	-236
2031	-489,868	-465,375	-22,925	-444,743	-222	-202	-24,493	-4,082	-90,626	-45	-41	-243
2032	-504,276	-479,062	-23,599	-457,823	-229	-208	-25,214	-4,202	-93,291	-47	-42	-250
2033	-518,684	-492,750	-24,273	-470,904	-235	-214	-25,934	-4,322	-95,957	-48	-44	-257
2034	-533,092	-506,437	-24,948	-483,985	-242	-220	-26,655	-4,442	-98,622	-49	-45	-264
2035	-547,500	-520,125	-25,622	-497,065	-249	-226	-27,375	-4,563	-101,288	-51	-46	-271
<b>BUILD PASSENGER CO<sub>2</sub> TOTALS (METRIC TONS)</b>						<b>-3,383</b>	<b>BUILD HEAVY-DUTY CO<sub>2</sub> TOTALS (METRIC TONS)</b>				<b>-689</b>	<b>-4,072</b>

**DELAY TOTALS**

BUILD PASSENGER CO<sub>2</sub> TOTALS 14,159.48

**TOTAL CO<sub>2</sub> REDUCTION**

BUILD HEAVY-DUTY CO<sub>2</sub> TOTALS 2,235.71 16,395.19

**VMT TOTALS**

BUILD PASSENGER CO<sub>2</sub> TOTALS (METRIC TONS) -3,383

BUILD HEAVY-DUTY CO<sub>2</sub> TOTALS (METRIC TONS) -689 -4,072

REDUCTION IN PASSENGER CO<sub>2</sub> (METRIC TONS) 10,777

REDUCTION IN HEAVY-DUTY CO<sub>2</sub> (METRIC TONS) 1,546 12,323

REDUCTION IN CO<sub>2</sub> (IN \$ [\$33/METRIC TON]) \$355,626

REDUCTION IN CO<sub>2</sub> (IN \$ [\$33/METRIC TON]) \$51,030 \$406,656

**FUEL SAVINGS**

DELAY PASSENGER TOTALS (GAL) 2,203,596

**CONSUMPTION**

DELAY HEAVY-DUTY TOTALS (GAL) 231,957 2,435,554

VMT PASSENGER TOTALS (GAL) -397,140

VMT HEAVY-DUTY TOTALS (GAL) -70,719 -467,858

GASOLINE REDUCED 1,806,456

DIESEL REDUCED 161,239 1,967,695

GALLONS FUEL REDUCED

# TOTAL CO<sub>2</sub> EMISSION REDUCTION BASED ON PASSENGER AND HEAVY-DUTY VEHICLES

