ATTACHMENT 3
COMPUTER MODELING FILES

This attachment provides a printout of the EMFAC2007, URBEMIS, and EDMS computer models used to calculate the emissions caused by the Proposed Project and the No Project Alternative.

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Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.606	0.511	1.264	1.653	4.606	0.597
0.267	0.213	0.504	0.701	2.908	0.270

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
7.923	5.705	14.939	13.409	31.769	6.988
5.205	3.475	6.166	5.277	23.979	4.604

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL

0.789	1.362	6.726	14.388	1.131	0.746
0.588	1.015	5.346	9.067	1.215	0.564

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.912	1230.593	1589.929	2214.485	201.537	850.008
9.587	649.587	1088.656	1837.789	138.882	460.791

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.011	0.018	0.002	0.004

0 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.060	0.064	0.271	0.352	0.044	0.050
0.024	0.026	0.146	0.164	0.026	0.020

0 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.008	0.009	0.012	0.010	0.004	0.008
0.008	0.009	0.012	0.010	0.004	0.008

0 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.013	0.013	0.013	0.013	0.006	0.012
0.013	0.013	0.013	0.013	0.006	0.012

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.735	6.749	5.163	5.182	33.451	10.733
7.997	13.168	12.610	12.653	47.904	19.767

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.042	19.556	6.698	3.954	0.000	23.199
9.042	19.556	6.698	3.954	0.000	23.199

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.190	0.229	0.841	0.324	1.956	0.218
0.295	0.377	1.226	0.487	2.055	0.327
0.492	0.655	1.947	0.792	2.285	0.532
0.672	0.909	2.599	1.067	2.554	0.720
0.834	1.137	3.183	1.311	2.865	0.890
0.979	1.341	3.700	1.526	3.215	1.043
1.098	1.513	4.104	1.695	3.419	1.168
1.219	1.619	3.550	1.509	2.636	1.266
0.975	1.473	3.779	1.605	2.694	1.058
1.033	1.561	4.001	1.699	2.894	1.122
1.090	1.647	4.217	1.790	3.093	1.184
1.146	1.731	4.427	1.878	3.290	1.245
1.200	1.813	4.631	1.964	3.486	1.305
1.254	1.894	4.830	2.047	3.681	1.364
1.305	1.973	5.021	2.127	3.874	1.421

1.356	2.050	5.207	2.205	4.066	1.477
1.406	2.125	5.387	2.280	4.256	1.531
1.454	2.199	5.561	2.352	4.446	1.584

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
1.673	2.351	9.363	3.153	5.449	1.742
2.876	4.191	16.028	5.419	5.627	2.942
5.151	7.671	28.537	9.673	6.018	5.214
7.254	10.883	39.953	13.555	6.456	7.314
9.183	13.828	50.276	17.065	6.945	9.243
0.940	16.504	59.506	20.202	7.480	11.000
2.525	18.913	67.642	22.967	8.064	12.586
3.394	19.113	52.067	18.098	9.595	14.935
1.380	15.853	54.516	16.931	10.100	11.278
2.067	16.778	56.911	19.746	12.129	11.983
2.705	17.638	59.251	20.545	13.937	12.636
3.292	18.431	61.536	21.326	15.522	13.236
3.830	19.158	63.766	22.091	16.887	13.783
4.319	19.819	65.941	22.838	18.030	14.279
4.757	20.414	68.061	23.569	18.951	14.721
5.146	20.942	70.125	24.283	19.651	15.111
5.484	21.404	72.135	24.979	20.129	15.449
5.773	21.799	74.090	25.659	20.385	15.734

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.384	0.893	1.272	0.641	0.234	0.423

0.449	1.054	1.904	0.961	0.264	0.501
0.564	1.339	3.013	1.522	0.317	0.638
0.659	1.573	3.917	1.980	0.362	0.752
0.734	1.758	4.615	2.334	0.399	0.841
0.789	1.894	5.109	2.585	0.428	0.907
0.825	1.980	5.398	2.731	0.449	0.948
0.868	2.080	5.492	2.778	0.460	0.993
0.902	2.100	5.471	2.767	0.452	1.020
0.895	2.086	5.438	2.751	0.440	1.013
0.885	2.065	5.395	2.730	0.425	1.002
0.872	2.036	5.341	2.703	0.407	0.987
0.855	2.001	5.276	2.670	0.386	0.969
0.836	1.958	5.200	2.632	0.362	0.948
0.813	1.909	5.112	2.588	0.335	0.923
0.787	1.852	5.014	2.539	0.305	0.894
0.758	1.788	4.905	2.485	0.272	0.862
0.725	1.717	4.785	2.425	0.236	0.827

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
8.258	17.484	11.959	5.219	25.329	13.264
6.378	22.041	18.699	8.881	27.937	16.448
2.978	31.640	32.047	16.138	33.019	23.159
0.057	41.887	45.218	23.305	37.924	30.329
7.614	52.780	58.211	30.382	42.651	37.956
5.651	64.319	71.027	37.370	47.200	46.041
4.166	76.505	83.666	44.269	51.571	54.584
9.940	154.870	138.669	74.216	71.791	109.874
5.843	177.891	161.272	86.923	73.620	125.763
1.352	200.291	182.542	98.881	75.344	141.240
6.466	222.071	202.479	110.088	76.963	156.306
1.186	243.231	221.082	120.546	78.476	170.961
5.512	263.770	238.351	130.253	79.885	185.204

9.443	283.688	254.288	139.212	81.188	199.036
2.980	302.967	268.890	147.420	82.387	212.456
6.122	321.664	282.160	154.878	83.480	225.465
8.870	339.721	294.096	161.587	84.468	238.063
1.224	357.158	304.698	167.546	85.352	250.249

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003
0.003	0.004	0.004	0.002	0.001	0.003

0 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL

0.001	0.001	0.001	0.001	0.014	0.001
0.002	0.002	0.002	0.001	0.013	0.002
0.004	0.003	0.003	0.002	0.010	0.003
0.006	0.004	0.005	0.003	0.008	0.005
0.008	0.006	0.006	0.003	0.006	0.006
0.009	0.007	0.007	0.004	0.005	0.007
0.011	0.008	0.008	0.005	0.004	0.008
0.016	0.011	0.010	0.006	0.010	0.012
0.017	0.012	0.011	0.007	0.015	0.013
0.018	0.013	0.011	0.007	0.020	0.014
0.018	0.013	0.012	0.007	0.024	0.014
0.019	0.014	0.012	0.007	0.028	0.015
0.020	0.015	0.013	0.007	0.031	0.016
0.021	0.015	0.013	0.008	0.033	0.016
0.021	0.015	0.013	0.008	0.035	0.017
0.022	0.016	0.014	0.008	0.036	0.017
0.022	0.016	0.014	0.008	0.037	0.017
0.023	0.016	0.015	0.009	0.038	0.018

Avg Annual 4 CYrs 2009 to 2030 Default Title
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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.070	0.027	0.014	0.025	0.123	0.064
0.129	0.049	0.025	0.046	0.227	0.118
0.221	0.085	0.043	0.079	0.389	0.201
0.285	0.110	0.056	0.101	0.502	0.259
0.308	0.119	0.061	0.109	0.545	0.280

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

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odel years in the range 1965 to 2009 selected

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Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.051	0.021	0.001	0.001	0.071	0.048

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
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Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.004

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.027	0.012	0.001	0.000	0.033	0.025

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Years 1965 to 2009 Inclusive -- Annual
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Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.402	0.126	0.001	0.002	0.011	1.000
0.362	0.176	0.005	0.000	0.014	1.000
0.385	0.100	0.001	0.000	0.045	1.000

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.574	0.264	0.102	0.126	0.102	0.284
0.301	0.139	0.058	0.073	0.138	0.161
0.212	0.099	0.044	0.057	0.157	0.123
0.170	0.080	0.038	0.049	0.169	0.105
0.144	0.069	0.034	0.044	0.176	0.095
0.098	0.049	0.028	0.035	0.197	0.077
0.087	0.044	0.027	0.034	0.207	0.073
0.085	0.044	0.027	0.033	0.215	0.073
0.086	0.045	0.028	0.034	0.222	0.074
0.086	0.045	0.028	0.034	0.223	0.075
0.086	0.045	0.028	0.034	0.223	0.075
0.087	0.045	0.028	0.034	0.224	0.075

0.087	0.045	0.028	0.034	0.224	0.075
0.087	0.045	0.028	0.034	0.222	0.075
0.087	0.046	0.028	0.033	0.219	0.074
0.087	0.046	0.028	0.033	0.216	0.074

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.345	0.347	0.929	1.240	4.191	0.331
0.148	0.145	0.378	0.538	2.547	0.149

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.969	3.963	10.851	8.380	24.813	4.129
3.393	2.559	4.492	3.239	18.835	2.850

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.512	0.929	4.537	12.475	1.159	0.471
0.376	0.691	3.616	7.886	1.150	0.350

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.682	1243.278	1569.392	2170.404	214.407	843.365
0.518	651.176	1189.335	1774.812	148.243	455.930

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.011	0.017	0.002	0.004

0 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.063	0.072	0.236	0.314	0.031	0.050
0.025	0.029	0.127	0.145	0.020	0.020

0 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.006	0.009	0.012	0.010	0.004	0.008
0.008	0.009	0.012	0.010	0.004	0.008

0 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.013	0.013	0.013	0.013	0.006	0.012
0.013	0.013	0.013	0.013	0.006	0.012

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.796	6.753	5.175	5.232	33.347	10.929
8.122	13.205	12.638	12.775	47.827	20.142

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.058	19.579	6.698	4.026	0.000	22.251
9.058	19.579	6.698	4.026	0.000	22.251

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Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.102	0.133	0.512	0.188	1.440	0.114
0.173	0.241	0.855	0.366	1.600	0.186
0.306	0.443	1.491	0.695	1.926	0.320
0.426	0.628	2.059	0.985	2.260	0.443

0.535	0.796	2.558	1.237	2.602	0.555
0.632	0.947	2.988	1.451	2.953	0.654
0.713	1.079	3.335	1.626	3.183	0.739
0.839	1.307	2.945	1.476	2.797	0.872
0.655	1.143	3.128	1.566	2.635	0.705
0.694	1.212	3.307	1.653	2.816	0.747
0.732	1.280	3.480	1.738	2.995	0.789
0.769	1.346	3.647	1.819	3.171	0.829
0.806	1.412	3.809	1.898	3.345	0.869
0.842	1.476	3.966	1.974	3.517	0.908
0.877	1.539	4.117	2.047	3.686	0.947
0.911	1.601	4.263	2.117	3.853	0.984
0.944	1.662	4.403	2.184	4.018	1.021
0.977	1.722	4.538	2.248	4.180	1.056

oon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
1.041	1.486	7.151	2.413	4.410	1.032
1.902	2.793	13.204	4.729	5.066	1.866
3.535	5.276	24.550	9.065	6.336	3.447
5.048	7.585	34.883	13.010	7.551	4.914
6.440	9.721	44.203	16.562	8.709	6.267
7.713	11.683	52.511	19.722	9.812	7.506
8.866	13.471	59.805	22.489	10.858	8.631
1.305	15.694	45.717	17.308	13.667	10.800
8.127	11.944	47.377	17.814	11.167	7.859
8.620	12.723	49.044	18.337	12.722	8.358
9.074	13.432	50.718	18.876	14.123	8.815
9.489	14.072	52.400	19.432	15.371	9.231
9.865	14.641	54.089	20.005	16.466	9.604
0.201	15.140	55.786	20.594	17.408	9.937
0.498	15.569	57.490	21.200	18.196	10.227
0.756	15.929	59.202	21.823	18.832	10.476

0.975	16.218	60.921	22.462	19.315	10.683
1.154	16.438	62.647	23.118	19.645	10.849

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.291	0.882	1.146	0.680	0.200	0.347
0.333	0.990	1.722	1.024	0.236	0.396
0.406	1.182	2.733	1.629	0.300	0.484
0.468	1.342	3.558	2.121	0.354	0.556
0.516	1.469	4.195	2.502	0.397	0.613
0.552	1.565	4.645	2.771	0.429	0.656
0.576	1.628	4.908	2.928	0.451	0.684
0.610	1.734	4.993	2.979	0.459	0.724
0.635	1.754	4.974	2.968	0.454	0.744
0.630	1.741	4.946	2.951	0.445	0.738
0.623	1.722	4.907	2.928	0.433	0.730
0.614	1.696	4.859	2.900	0.418	0.719
0.602	1.663	4.801	2.866	0.402	0.705
0.588	1.623	4.734	2.826	0.382	0.689
0.572	1.577	4.656	2.781	0.361	0.670
0.553	1.523	4.569	2.729	0.337	0.648
0.532	1.463	4.472	2.672	0.310	0.623
0.508	1.396	4.365	2.609	0.281	0.595

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
3.590	18.892	7.763	3.817	19.183	13.553
6.208	22.665	13.585	7.612	21.587	16.129

1.906	30.867	25.125	15.140	26.289	21.741
8.223	39.943	36.524	22.584	30.849	27.966
5.158	49.893	47.784	29.943	35.268	34.804
2.711	60.718	58.905	37.217	39.544	42.255
0.882	72.417	69.886	44.407	43.678	50.318
9.251	155.559	117.525	75.529	62.533	108.047
4.824	177.971	137.905	89.232	65.612	123.390
0.142	199.999	157.083	102.127	68.511	138.486
5.205	221.643	175.059	114.212	71.231	153.335
0.013	242.903	191.831	125.488	73.771	167.938
4.565	263.778	207.401	135.956	76.131	182.293
8.862	284.270	221.768	145.615	78.312	196.402
2.904	304.377	234.933	154.466	80.313	210.263
6.691	324.101	246.895	162.507	82.134	223.877
0.222	343.440	257.654	169.740	83.776	237.245
3.498	362.395	267.211	176.164	85.239	250.365

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002

0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.004	0.004	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003

0 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.001	0.001	0.010	0.001
0.002	0.002	0.002	0.001	0.009	0.002
0.004	0.003	0.004	0.002	0.007	0.003
0.006	0.005	0.005	0.003	0.006	0.005
0.008	0.006	0.007	0.004	0.005	0.006
0.010	0.008	0.008	0.005	0.004	0.007
0.011	0.009	0.009	0.006	0.003	0.008
0.017	0.014	0.012	0.008	0.008	0.013
0.019	0.015	0.013	0.008	0.012	0.014
0.020	0.016	0.013	0.008	0.015	0.015
0.021	0.017	0.013	0.009	0.018	0.016
0.022	0.018	0.014	0.009	0.021	0.016
0.023	0.018	0.014	0.009	0.023	0.017
0.024	0.019	0.015	0.009	0.025	0.018
0.024	0.019	0.015	0.010	0.026	0.018
0.025	0.020	0.016	0.010	0.027	0.019
0.025	0.020	0.016	0.010	0.028	0.019
0.026	0.020	0.016	0.010	0.028	0.019

Avg Annual 4 CYrs 2009 to 2030 Default Title

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.068	0.027	0.011	0.021	0.089	0.056
0.125	0.050	0.021	0.038	0.165	0.104
0.213	0.086	0.036	0.065	0.283	0.177
0.274	0.111	0.046	0.083	0.366	0.227
0.296	0.120	0.050	0.090	0.398	0.246

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

Avg Annual 4 CYrs 2009 to 2030 Default Title
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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.048	0.024	0.001	0.001	0.068	0.042

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.003

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.028	0.015	0.001	0.000	0.030	0.024

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

Avg Annual 4 CYrs 2009 to 2030 Default Title
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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.398	0.119	0.001	0.002	0.011	1.000
0.359	0.179	0.005	0.000	0.014	1.000
0.384	0.100	0.001	0.000	0.045	1.000

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.574	0.286	0.113	0.165	0.029	0.273

0.294	0.148	0.060	0.086	0.066	0.146
0.204	0.104	0.044	0.060	0.085	0.106
0.161	0.083	0.036	0.048	0.096	0.088
0.135	0.071	0.032	0.041	0.104	0.077
0.086	0.049	0.024	0.027	0.120	0.058
0.073	0.043	0.022	0.024	0.127	0.053
0.069	0.041	0.021	0.023	0.131	0.052
0.068	0.041	0.021	0.023	0.135	0.052
0.068	0.041	0.021	0.023	0.135	0.052
0.068	0.041	0.021	0.024	0.136	0.052
0.068	0.041	0.021	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.135	0.052
0.069	0.042	0.022	0.024	0.134	0.052

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.304	0.321	0.847	1.218	4.144	0.297
0.130	0.134	0.347	0.528	2.505	0.133

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.477	3.695	9.873	8.296	24.001	3.731
3.085	2.408	4.091	3.208	18.236	2.599

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.466	0.861	4.110	12.191	1.162	0.431
0.341	0.640	3.270	7.714	1.143	0.319

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
5.327	1244.483	1565.336	2164.557	215.902	842.480
0.531	651.380	1209.217	1766.622	149.332	455.281

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.012	0.017	0.002	0.004

0 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.063	0.073	0.229	0.308	0.030	0.050
0.025	0.029	0.124	0.142	0.019	0.020

0 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.008	0.009	0.012	0.010	0.004	0.008
0.008	0.009	0.012	0.010	0.004	0.008

0 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.013	0.013	0.013	0.013	0.006	0.012
0.013	0.013	0.013	0.013	0.006	0.012

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.810	6.757	5.181	5.233	33.336	10.957
8.151	13.212	12.652	12.777	47.820	20.196

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.061	19.576	6.698	4.037	0.000	21.979
9.061	19.576	6.698	4.037	0.000	21.979

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
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Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.088	0.122	0.451	0.191	1.369	0.101
0.153	0.223	0.781	0.372	1.537	0.166
0.274	0.413	1.390	0.705	1.877	0.289
0.384	0.587	1.932	1.000	2.220	0.402
0.483	0.746	2.407	1.256	2.568	0.504
0.571	0.890	2.818	1.473	2.918	0.596
0.646	1.016	3.145	1.651	3.152	0.674
0.769	1.257	2.786	1.498	2.825	0.806
0.597	1.093	2.959	1.590	2.630	0.650
0.633	1.159	3.127	1.678	2.809	0.689
0.668	1.224	3.289	1.764	2.985	0.727
0.702	1.288	3.446	1.847	3.159	0.765
0.735	1.351	3.598	1.927	3.330	0.801
0.768	1.413	3.745	2.004	3.499	0.837
0.800	1.473	3.887	2.078	3.665	0.873
0.831	1.533	4.024	2.149	3.829	0.907
0.861	1.592	4.155	2.217	3.990	0.941
0.891	1.650	4.281	2.283	4.148	0.975

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.934	1.375	6.652	2.406	4.264	0.932
1.730	2.602	12.471	4.715	4.989	1.703
3.240	4.936	23.376	9.039	6.386	3.166
4.639	7.109	33.304	12.972	7.712	4.525
5.928	9.124	42.255	16.513	8.967	5.780

7.107	10.978	50.229	19.664	10.151	6.930
8.176	12.672	57.225	22.424	11.265	7.976
0.495	15.140	43.668	17.258	14.279	10.077
7.508	11.367	45.170	17.762	11.334	7.289
7.964	12.126	46.688	18.283	12.821	7.755
8.383	12.815	48.223	18.821	14.165	8.181
8.765	13.433	49.775	19.375	15.366	8.567
9.111	13.981	51.343	19.946	16.423	8.914
9.419	14.459	52.927	20.534	17.337	9.221
9.691	14.865	54.528	21.138	18.107	9.488
9.926	15.202	56.146	21.759	18.735	9.715
0.124	15.467	57.780	22.397	19.219	9.903
0.285	15.663	59.431	23.051	19.559	10.051

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.270	0.872	1.096	0.689	0.195	0.331
0.308	0.972	1.649	1.039	0.232	0.375
0.375	1.149	2.619	1.652	0.298	0.454
0.430	1.297	3.409	2.152	0.353	0.520
0.474	1.416	4.020	2.538	0.397	0.573
0.507	1.505	4.452	2.811	0.429	0.612
0.528	1.565	4.704	2.970	0.451	0.637
0.560	1.670	4.785	3.022	0.459	0.676
0.583	1.689	4.767	3.010	0.455	0.694
0.579	1.677	4.740	2.993	0.446	0.689
0.573	1.658	4.704	2.971	0.434	0.681
0.564	1.633	4.658	2.942	0.420	0.671
0.553	1.600	4.602	2.907	0.404	0.658
0.540	1.562	4.538	2.867	0.386	0.642
0.525	1.516	4.464	2.821	0.365	0.624
0.508	1.463	4.380	2.769	0.341	0.603
0.488	1.404	4.288	2.711	0.316	0.580

0.467	1.338	4.186	2.647	0.288	0.554

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
3.689	19.146	6.988	3.840	18.283	13.647
6.220	22.805	12.604	7.658	20.657	16.133
1.763	30.803	23.737	15.231	25.302	21.581
7.949	39.709	34.737	22.720	29.810	27.666
4.777	49.521	45.606	30.123	34.182	34.387
2.247	60.241	56.343	37.441	38.416	41.744
0.360	71.868	66.947	44.675	42.515	49.737
9.202	155.699	112.925	75.984	61.163	107.843
4.712	178.005	132.752	89.769	64.422	123.093
9.991	199.963	151.408	102.741	67.490	138.121
5.040	221.571	168.895	114.899	70.368	152.928
9.858	242.831	185.211	126.243	73.055	167.513
4.447	263.743	200.357	136.774	75.552	181.877
8.805	284.305	214.334	146.491	77.859	196.020
2.932	304.519	227.140	155.395	79.976	209.941
6.829	324.384	238.776	163.484	81.902	223.640
0.496	343.900	249.242	170.761	83.638	237.118
3.933	363.068	258.538	177.223	85.184	250.374

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000

0.000	0.001	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.002	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.004	0.003	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003

0 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.001	0.001	0.010	0.001
0.002	0.002	0.002	0.001	0.009	0.002
0.004	0.004	0.004	0.002	0.007	0.003
0.006	0.005	0.005	0.003	0.006	0.005
0.008	0.007	0.006	0.004	0.004	0.006
0.010	0.008	0.008	0.005	0.004	0.007
0.011	0.009	0.009	0.006	0.003	0.008
0.017	0.014	0.012	0.008	0.007	0.013
0.019	0.015	0.012	0.008	0.011	0.014
0.020	0.016	0.013	0.008	0.014	0.015
0.021	0.017	0.013	0.009	0.017	0.016
0.022	0.018	0.013	0.009	0.020	0.017
0.023	0.019	0.014	0.009	0.022	0.017
0.024	0.020	0.014	0.010	0.023	0.018
0.025	0.020	0.015	0.010	0.025	0.018

0.025	0.021	0.015	0.010	0.026	0.019
0.026	0.021	0.015	0.010	0.026	0.019
0.026	0.021	0.016	0.011	0.027	0.019

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.067	0.028	0.011	0.022	0.086	0.055
0.123	0.051	0.020	0.040	0.160	0.101
0.209	0.087	0.034	0.068	0.274	0.172
0.269	0.112	0.044	0.087	0.355	0.221
0.291	0.121	0.047	0.094	0.385	0.239

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.048	0.025	0.001	0.001	0.068	0.041

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.003

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.028	0.016	0.001	0.000	0.031	0.024

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

Avg Annual 4 CYrs 2009 to 2030 Default Title
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odel years in the range 1971 to 2015 selected

****
Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.399	0.118	0.001	0.002	0.011	1.000
0.358	0.180	0.005	0.000	0.014	1.000
0.384	0.101	0.001	0.000	0.045	1.000

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odel years in the range 1971 to 2015 selected

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Years 1971 to 2015 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.559	0.287	0.111	0.178	0.023	0.267
0.286	0.149	0.059	0.092	0.059	0.142
0.198	0.104	0.042	0.064	0.078	0.103
0.156	0.084	0.035	0.051	0.089	0.085
0.131	0.071	0.031	0.043	0.097	0.074
0.083	0.048	0.023	0.029	0.113	0.055
0.070	0.042	0.021	0.025	0.119	0.050
0.066	0.041	0.020	0.025	0.123	0.049
0.064	0.041	0.020	0.025	0.126	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.126	0.049

Avg Annual 4 CYrs 2009 to 2030 Default Title
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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.086	0.121	0.245	1.032	3.955	0.119
0.033	0.049	0.124	0.439	2.335	0.055

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
1.430	1.717	3.107	7.765	20.713	1.426
1.082	1.223	1.323	3.030	15.808	1.069

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.136	0.297	1.207	9.072	1.182	0.151
0.099	0.222	0.892	5.862	1.115	0.112

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
8.997	1258.499	1537.208	2101.046	221.960	838.127
9.959	653.394	1347.109	1698.910	153.751	451.347

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.020	0.003	0.008
0.005	0.006	0.013	0.016	0.002	0.004

0 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.064	0.078	0.195	0.245	0.024	0.051
0.024	0.030	0.107	0.113	0.015	0.019

0 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.008	0.009	0.012	0.010	0.004	0.008
0.008	0.009	0.012	0.010	0.004	0.008

0 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.013	0.013	0.013	0.013	0.006	0.012
0.013	0.013	0.013	0.013	0.006	0.012

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
8.924	6.777	5.278	5.230	33.292	11.142
8.382	13.268	12.885	12.772	47.789	20.560

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.156	19.472	6.698	4.207	0.000	18.138
9.156	19.472	6.698	4.207	0.000	18.138

Avg Annual 4 CYrs 2009 to 2030 Default Title

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.016	0.045	0.123	0.223	1.011	0.032
0.032	0.089	0.240	0.435	1.227	0.053
0.061	0.174	0.454	0.825	1.643	0.094
0.088	0.256	0.644	1.169	2.039	0.131
0.113	0.333	0.809	1.468	2.416	0.167
0.137	0.406	0.949	1.721	2.772	0.200
0.158	0.475	1.064	1.930	3.029	0.229
0.233	0.771	0.965	1.751	3.023	0.328
0.169	0.623	1.024	1.858	2.650	0.257
0.179	0.663	1.081	1.962	2.818	0.273
0.189	0.702	1.136	2.062	2.984	0.289
0.200	0.742	1.190	2.159	3.146	0.305
0.210	0.781	1.241	2.252	3.305	0.320
0.219	0.819	1.291	2.342	3.460	0.336
0.229	0.858	1.339	2.429	3.612	0.351
0.239	0.896	1.384	2.512	3.761	0.366
0.248	0.934	1.428	2.592	3.907	0.381
0.258	0.972	1.471	2.668	4.049	0.396

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.238	0.673	2.160	2.426	3.492	0.325
0.470	1.332	4.232	4.754	4.594	0.611
0.914	2.603	8.113	9.114	6.684	1.159
1.332	3.813	11.643	13.080	8.623	1.677
1.725	4.964	14.822	16.651	10.409	2.165
2.091	6.054	17.649	19.827	12.043	2.622
2.432	7.083	20.126	22.610	13.526	3.049
3.637	11.014	15.490	17.401	17.779	4.554
2.428	7.205	15.942	17.910	12.329	3.037
2.616	7.844	16.410	18.435	13.462	3.287
2.783	8.406	16.893	18.977	14.504	3.509
2.929	8.891	17.390	19.536	15.454	3.702
3.055	9.300	17.903	20.112	16.313	3.868
3.161	9.631	18.430	20.704	17.081	4.006
3.246	9.885	18.973	21.314	17.758	4.116
3.310	10.062	19.530	21.940	18.343	4.198
3.354	10.162	20.102	22.583	18.837	4.252
3.378	10.185	20.689	23.242	19.240	4.279

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.088	0.726	0.414	0.811	0.168	0.187
0.095	0.757	0.623	1.222	0.211	0.198
0.108	0.815	0.992	1.944	0.286	0.219
0.119	0.866	1.292	2.532	0.348	0.237
0.128	0.909	1.523	2.986	0.397	0.252
0.135	0.945	1.687	3.307	0.433	0.264

0.140	0.973	1.783	3.494	0.456	0.273
0.151	1.067	1.813	3.554	0.462	0.296
0.158	1.080	1.807	3.541	0.460	0.302
0.157	1.071	1.797	3.521	0.453	0.300
0.155	1.057	1.783	3.494	0.444	0.296
0.152	1.038	1.766	3.461	0.433	0.291
0.149	1.013	1.745	3.420	0.420	0.284
0.145	0.983	1.721	3.373	0.406	0.276
0.141	0.947	1.693	3.318	0.389	0.267
0.135	0.906	1.662	3.257	0.370	0.256
0.129	0.860	1.627	3.189	0.350	0.244
0.123	0.807	1.588	3.113	0.327	0.230

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
5.063	21.678	3.551	3.883	13.252	14.820
6.981	24.476	7.083	7.744	15.449	16.717
1.430	30.950	14.088	15.403	19.761	21.105
6.695	38.597	21.014	22.975	23.967	26.284
2.777	47.415	27.861	30.462	28.065	32.255
9.675	57.404	34.630	37.862	32.057	39.019
7.389	68.566	41.321	45.177	35.941	46.573
9.831	158.602	70.279	76.838	53.385	107.512
4.743	180.175	83.029	90.779	57.626	122.070
9.615	201.680	95.027	103.896	61.617	136.586
4.445	223.118	106.273	116.191	65.359	151.057
9.236	244.488	116.765	127.663	68.853	165.486
3.985	265.791	126.505	138.312	72.098	179.871
8.694	287.026	135.493	148.139	75.094	194.212
3.363	308.195	143.728	157.142	77.841	208.510
7.991	329.296	151.211	165.323	80.339	222.765
2.578	350.329	157.940	172.681	82.588	236.976
7.125	371.295	163.918	179.216	84.589	251.144

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.002	0.001	0.001	0.001	0.001
0.001	0.002	0.001	0.001	0.001	0.001
0.001	0.002	0.001	0.001	0.001	0.001
0.002	0.002	0.001	0.001	0.001	0.002
0.002	0.003	0.001	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.004	0.002	0.002	0.001	0.002
0.003	0.004	0.002	0.002	0.001	0.002

0 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.001	0.001	0.007	0.001
0.002	0.002	0.001	0.001	0.006	0.001
0.004	0.003	0.002	0.002	0.005	0.003
0.005	0.005	0.003	0.004	0.004	0.004

0.007	0.006	0.003	0.005	0.003	0.005
0.008	0.008	0.004	0.005	0.003	0.006
0.010	0.009	0.005	0.006	0.003	0.007
0.016	0.015	0.006	0.008	0.006	0.012
0.018	0.017	0.007	0.009	0.008	0.014
0.019	0.018	0.007	0.009	0.011	0.015
0.021	0.020	0.007	0.009	0.012	0.016
0.022	0.021	0.007	0.009	0.014	0.017
0.023	0.022	0.007	0.010	0.016	0.018
0.024	0.023	0.008	0.010	0.017	0.018
0.024	0.023	0.008	0.010	0.018	0.019
0.025	0.024	0.008	0.011	0.018	0.019
0.025	0.024	0.008	0.011	0.019	0.019
0.025	0.024	0.009	0.011	0.019	0.019

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odel years in the range 1986 to 2030 selected

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Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.041	0.025	0.006	0.026	0.076	0.032
0.076	0.045	0.012	0.047	0.141	0.059
0.129	0.077	0.020	0.080	0.243	0.100
0.165	0.099	0.025	0.103	0.314	0.128
0.178	0.107	0.027	0.111	0.342	0.139

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
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Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.031	0.026	0.001	0.001	0.070	0.026

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.000	0.000	0.007	0.002

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.021	0.019	0.000	0.001	0.032	0.017

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.001

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.404	0.116	0.001	0.002	0.011	1.000
0.357	0.184	0.005	0.000	0.014	1.000
0.385	0.101	0.001	0.000	0.045	1.000

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odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.277	0.227	0.066	0.509	0.004	0.144
0.142	0.117	0.034	0.258	0.036	0.075
0.099	0.082	0.024	0.175	0.054	0.055
0.079	0.066	0.019	0.135	0.064	0.046
0.067	0.057	0.017	0.111	0.070	0.040
0.045	0.039	0.012	0.065	0.084	0.031
0.038	0.034	0.010	0.052	0.089	0.028
0.036	0.033	0.010	0.046	0.091	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.606	0.511	1.264	1.653	4.606	0.597
0.267	0.213	0.504	0.701	2.908	0.270

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
7.923	5.705	14.939	13.409	31.769	6.988
5.205	3.475	6.166	5.277	23.979	4.604

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL

0.789	1.362	6.726	14.388	1.131	0.746
0.588	1.015	5.346	9.067	1.215	0.564

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.912	1230.593	1589.929	2214.485	201.537	850.008
9.587	649.587	1088.656	1837.789	138.882	460.791

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.011	0.018	0.002	0.004

.5 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.056	0.059	0.249	0.323	0.033	0.046
0.022	0.024	0.135	0.151	0.022	0.018

.5 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.003	0.002	0.001	0.002
0.002	0.002	0.003	0.002	0.001	0.002

.5 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.005	0.005	0.005	0.005	0.003	0.005
0.005	0.005	0.005	0.005	0.003	0.005

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.735	6.749	5.163	5.182	33.451	10.733
7.997	13.168	12.610	12.653	47.904	19.767

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.042	19.556	6.698	3.954	0.000	23.199
9.042	19.556	6.698	3.954	0.000	23.199

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odel years in the range 1965 to 2009 selected

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Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.190	0.229	0.841	0.324	1.956	0.218
0.295	0.377	1.226	0.487	2.055	0.327
0.492	0.655	1.947	0.792	2.285	0.532
0.672	0.909	2.599	1.067	2.554	0.720
0.834	1.137	3.183	1.311	2.865	0.890
0.979	1.341	3.700	1.526	3.215	1.043
1.098	1.513	4.104	1.695	3.419	1.168
1.219	1.619	3.550	1.509	2.636	1.286
0.975	1.473	3.779	1.605	2.694	1.058
1.033	1.561	4.001	1.699	2.894	1.122
1.090	1.647	4.217	1.790	3.093	1.184
1.146	1.731	4.427	1.878	3.290	1.245
1.200	1.813	4.631	1.964	3.486	1.305
1.254	1.894	4.830	2.047	3.681	1.364
1.305	1.973	5.021	2.127	3.874	1.421

1.356	2.050	5.207	2.205	4.066	1.477
1.406	2.125	5.387	2.280	4.256	1.531
1.454	2.199	5.561	2.352	4.446	1.584

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
1.673	2.351	9.363	3.153	5.449	1.742
2.876	4.191	16.028	5.419	5.627	2.942
6.151	7.671	28.537	9.673	6.018	5.214
7.254	10.683	39.953	13.555	6.458	7.314
9.183	13.828	50.276	17.065	6.945	9.243
0.940	16.504	59.506	20.202	7.480	11.000
2.525	18.913	67.642	22.967	8.064	12.586
5.394	19.113	52.067	18.098	9.595	14.935
1.380	15.853	54.516	18.931	10.100	11.278
2.067	16.778	56.911	19.746	12.129	11.983
2.705	17.638	59.251	20.545	13.937	12.636
3.292	18.431	61.536	21.326	15.522	13.236
3.830	19.158	63.766	22.091	16.887	13.783
4.319	19.819	65.941	22.838	18.030	14.279
4.757	20.414	68.061	23.569	18.951	14.721
5.146	20.942	70.125	24.283	19.651	15.111
5.484	21.404	72.135	24.979	20.129	15.449
5.773	21.799	74.090	25.659	20.385	15.734

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.384	0.893	1.272	0.641	0.234	0.423

0.449	1.054	1.904	0.961	0.264	0.501
0.564	1.339	3.013	1.522	0.317	0.638
0.659	1.573	3.917	1.980	0.362	0.752
0.734	1.758	4.615	2.334	0.399	0.841
0.789	1.894	5.109	2.585	0.428	0.907
0.825	1.980	5.398	2.731	0.449	0.948
0.868	2.080	5.492	2.778	0.460	0.993
0.902	2.100	5.471	2.767	0.452	1.020
0.895	2.086	5.438	2.751	0.440	1.013
0.885	2.065	5.395	2.730	0.425	1.002
0.872	2.036	5.341	2.703	0.407	0.987
0.855	2.001	5.276	2.670	0.386	0.969
0.836	1.958	5.200	2.632	0.362	0.948
0.813	1.909	5.112	2.588	0.335	0.923
0.787	1.852	5.014	2.539	0.305	0.894
0.758	1.788	4.905	2.485	0.272	0.862
0.725	1.717	4.785	2.425	0.236	0.827

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
3.258	17.484	11.959	5.219	25.329	13.264
6.378	22.041	18.699	8.881	27.937	16.446
2.978	31.640	32.047	16.138	33.019	23.159
0.057	41.887	45.218	23.305	37.924	30.329
7.614	52.780	58.211	30.382	42.651	37.956
5.681	64.319	71.027	37.370	47.200	46.041
4.166	76.505	83.666	44.269	51.571	54.584
9.940	154.870	138.669	74.216	71.791	109.874
5.843	177.891	161.272	86.923	73.620	125.763
1.352	200.291	182.542	98.881	75.344	141.240
6.466	222.071	202.479	110.088	76.963	156.306
1.186	243.231	221.082	120.546	78.476	170.961
5.512	263.770	238.351	130.253	79.885	185.204

9.443	283.688	254.288	139.212	81.188	199.036
2.980	302.987	268.890	147.420	82.387	212.456
6.122	321.664	282.160	154.878	83.480	225.465
8.870	339.721	294.096	161.587	84.468	238.063
1.224	357.158	304.698	167.546	85.352	250.249

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.002	0.003	0.004	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003
0.003	0.004	0.004	0.002	0.001	0.003

.5 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL

0.001	0.001	0.001	0.001	0.011	0.001
0.002	0.002	0.002	0.001	0.010	0.002
0.004	0.003	0.003	0.002	0.008	0.003
0.006	0.004	0.004	0.002	0.006	0.004
0.007	0.005	0.005	0.003	0.005	0.005
0.009	0.006	0.006	0.004	0.004	0.007
0.010	0.007	0.007	0.004	0.003	0.007
0.014	0.011	0.010	0.006	0.007	0.011
0.015	0.011	0.010	0.006	0.011	0.012
0.016	0.012	0.010	0.006	0.015	0.012
0.017	0.012	0.011	0.006	0.018	0.013
0.018	0.013	0.011	0.007	0.021	0.014
0.019	0.013	0.012	0.007	0.023	0.014
0.019	0.014	0.012	0.007	0.025	0.015
0.020	0.014	0.012	0.007	0.027	0.015
0.020	0.015	0.013	0.007	0.028	0.016
0.021	0.015	0.013	0.008	0.028	0.016
0.021	0.015	0.013	0.008	0.029	0.016

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.070	0.027	0.014	0.025	0.123	0.064
0.129	0.049	0.025	0.046	0.227	0.118
0.221	0.085	0.043	0.079	0.389	0.201
0.285	0.110	0.056	0.101	0.502	0.259
0.308	0.119	0.061	0.109	0.545	0.280

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.051	0.021	0.001	0.001	0.071	0.048

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.004

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.027	0.012	0.001	0.000	0.033	0.025

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.402	0.126	0.001	0.002	0.011	1.000
0.362	0.178	0.005	0.000	0.014	1.000
0.385	0.100	0.001	0.000	0.045	1.000

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odel years in the range 1965 to 2009 selected

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Years 1965 to 2009 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.574	0.264	0.102	0.126	0.102	0.284
0.301	0.139	0.058	0.073	0.138	0.161
0.212	0.099	0.044	0.057	0.157	0.123
0.170	0.080	0.038	0.049	0.169	0.105
0.144	0.069	0.034	0.044	0.176	0.095
0.098	0.049	0.028	0.035	0.197	0.077
0.087	0.044	0.027	0.034	0.207	0.073
0.085	0.044	0.027	0.033	0.215	0.073
0.086	0.045	0.028	0.034	0.222	0.074
0.086	0.045	0.028	0.034	0.223	0.075
0.086	0.045	0.028	0.034	0.223	0.075
0.087	0.045	0.028	0.034	0.224	0.075

0.087	0.045	0.028	0.034	0.224	0.075
0.087	0.045	0.028	0.034	0.222	0.075
0.087	0.046	0.028	0.033	0.219	0.074
0.087	0.046	0.028	0.033	0.216	0.074

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.345	0.347	0.929	1.240	4.191	0.331
0.148	0.145	0.378	0.538	2.547	0.149

oon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.969	3.963	10.851	8.380	24.813	4.129
3.393	2.559	4.492	3.239	18.835	2.850

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.512	0.929	4.537	12.475	1.159	0.471
0.376	0.691	3.616	7.886	1.150	0.350

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.682	1243.278	1569.392	2170.404	214.407	843.365
0.518	651.176	1189.335	1774.812	148.243	455.930

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.011	0.017	0.002	0.004

.5 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.059	0.067	0.217	0.289	0.024	0.047
0.023	0.027	0.117	0.134	0.015	0.018

.5 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.003	0.002	0.001	0.002
0.002	0.002	0.003	0.002	0.001	0.002

.5 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.005	0.005	0.005	0.005	0.003	0.005
0.005	0.005	0.005	0.005	0.003	0.005

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.796	6.753	5.175	5.232	33.347	10.929
8.122	13.205	12.638	12.775	47.827	20.142

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.058	19.579	6.698	4.026	0.000	22.251
9.058	19.579	6.698	4.026	0.000	22.251

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Sonoma County Average

Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.102	0.133	0.512	0.188	1.440	0.114
0.173	0.241	0.855	0.366	1.600	0.186
0.306	0.443	1.491	0.695	1.926	0.320
0.426	0.628	2.059	0.985	2.260	0.443

0.535	0.796	2.558	1.237	2.602	0.555
0.632	0.947	2.988	1.451	2.953	0.654
0.713	1.079	3.335	1.626	3.183	0.739
0.839	1.307	2.945	1.476	2.797	0.872
0.655	1.143	3.128	1.566	2.635	0.705
0.694	1.212	3.307	1.653	2.816	0.747
0.732	1.280	3.480	1.738	2.995	0.789
0.769	1.346	3.647	1.819	3.171	0.829
0.806	1.412	3.809	1.898	3.345	0.869
0.842	1.476	3.966	1.974	3.517	0.908
0.877	1.539	4.117	2.047	3.686	0.947
0.911	1.601	4.263	2.117	3.853	0.984
0.944	1.662	4.403	2.184	4.018	1.021
0.977	1.722	4.538	2.248	4.180	1.056

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
1.041	1.486	7.151	2.413	4.410	1.032
1.902	2.793	13.204	4.729	5.066	1.866
3.535	5.276	24.550	9.065	6.336	3.447
5.048	7.585	34.883	13.010	7.551	4.914
6.440	9.721	44.203	16.562	8.709	6.267
7.713	11.683	52.511	19.722	9.812	7.506
8.866	13.471	59.805	22.489	10.858	8.631
1.305	15.694	45.717	17.308	13.667	10.800
8.127	11.944	47.377	17.814	11.167	7.859
8.620	12.723	49.044	18.337	12.722	8.358
9.074	13.432	50.718	18.876	14.123	8.815
9.489	14.072	52.400	19.432	15.371	9.231
9.865	14.641	54.089	20.005	16.466	9.604
0.201	15.140	55.786	20.594	17.408	9.937
0.498	15.569	57.490	21.200	18.196	10.227
0.756	15.929	59.202	21.823	18.832	10.476

0.975	16.218	60.921	22.462	19.315	10.683
1.154	16.438	62.647	23.118	19.645	10.849

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.291	0.882	1.146	0.680	0.200	0.347
0.333	0.990	1.722	1.024	0.236	0.396
0.406	1.182	2.733	1.629	0.300	0.484
0.468	1.342	3.558	2.121	0.354	0.556
0.516	1.469	4.195	2.502	0.397	0.613
0.552	1.565	4.645	2.771	0.429	0.656
0.576	1.628	4.908	2.928	0.451	0.684
0.610	1.734	4.993	2.979	0.459	0.724
0.635	1.754	4.974	2.968	0.454	0.744
0.630	1.741	4.946	2.951	0.445	0.738
0.623	1.722	4.907	2.928	0.433	0.730
0.614	1.696	4.859	2.900	0.418	0.719
0.602	1.663	4.801	2.865	0.402	0.705
0.588	1.623	4.734	2.826	0.382	0.689
0.572	1.577	4.656	2.781	0.361	0.670
0.553	1.523	4.569	2.729	0.337	0.648
0.532	1.463	4.472	2.672	0.310	0.623
0.508	1.396	4.365	2.609	0.281	0.595

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
3.590	18.892	7.763	3.817	19.183	13.553
6.208	22.665	13.585	7.612	21.587	16.129

1.906	30.867	25.125	15.140	26.288	21.741
3.223	39.943	36.524	22.584	30.849	27.966
5.158	49.893	47.784	29.943	35.268	34.804
2.711	60.718	58.905	37.217	39.544	42.255
0.882	72.417	69.886	44.407	43.678	50.318
9.251	155.559	117.525	75.329	62.533	108.047
4.824	177.971	137.905	89.232	65.612	123.390
0.142	199.999	157.083	102.127	68.511	138.486
5.205	221.643	175.059	114.212	71.231	153.335
0.013	242.903	191.831	125.488	73.771	167.938
4.565	263.778	207.401	135.956	76.131	182.293
8.862	284.270	221.768	145.615	78.312	196.402
2.904	304.377	234.933	154.466	80.313	210.263
6.691	324.101	246.895	162.507	82.134	223.877
0.222	343.440	257.654	169.740	83.776	237.245
3.498	362.395	267.211	176.164	85.239	250.365

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.003	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002

0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.004	0.004	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003

.5 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.001	0.001	0.008	0.001
0.002	0.002	0.002	0.001	0.007	0.002
0.004	0.003	0.003	0.002	0.006	0.003
0.006	0.005	0.005	0.003	0.004	0.004
0.008	0.006	0.006	0.004	0.004	0.006
0.009	0.007	0.007	0.005	0.003	0.007
0.010	0.008	0.008	0.005	0.003	0.008
0.016	0.013	0.011	0.007	0.006	0.012
0.017	0.014	0.012	0.007	0.009	0.013
0.018	0.015	0.012	0.008	0.012	0.014
0.020	0.016	0.012	0.008	0.014	0.015
0.021	0.016	0.013	0.008	0.016	0.015
0.021	0.017	0.013	0.008	0.018	0.016
0.022	0.018	0.014	0.009	0.019	0.016
0.023	0.018	0.014	0.009	0.020	0.017
0.023	0.018	0.014	0.009	0.021	0.017
0.024	0.019	0.015	0.009	0.021	0.018
0.024	0.019	0.015	0.010	0.021	0.018

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Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.068	0.027	0.011	0.021	0.089	0.056
0.125	0.050	0.021	0.038	0.165	0.104
0.213	0.086	0.036	0.065	0.283	0.177
0.274	0.111	0.046	0.083	0.366	0.227
0.296	0.120	0.050	0.090	0.398	0.246

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.048	0.024	0.001	0.001	0.068	0.042

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.003

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.028	0.015	0.001	0.000	0.030	0.024

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odel years in the range 1970 to 2014 selected

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Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

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odel years in the range 1970 to 2014 selected

****
Years 1970 to 2014 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.398	0.119	0.001	0.002	0.011	1.000
0.359	0.179	0.005	0.000	0.014	1.000
0.384	0.100	0.001	0.000	0.045	1.000

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odel years in the range 1970 to 2014 selected

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Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.574	0.286	0.113	0.165	0.029	0.273

0.294	0.148	0.060	0.086	0.066	0.146
0.204	0.104	0.044	0.060	0.085	0.106
0.161	0.083	0.036	0.048	0.096	0.088
0.135	0.071	0.032	0.041	0.104	0.077
0.086	0.049	0.024	0.027	0.120	0.058
0.073	0.043	0.022	0.024	0.127	0.053
0.069	0.041	0.021	0.023	0.131	0.052
0.068	0.041	0.021	0.023	0.135	0.052
0.068	0.041	0.021	0.023	0.135	0.052
0.068	0.041	0.021	0.024	0.136	0.052
0.068	0.041	0.021	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.136	0.052
0.068	0.042	0.022	0.024	0.135	0.052
0.069	0.042	0.022	0.024	0.134	0.052

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odel years in the range 1971 to 2015 selected

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Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.304	0.321	0.847	1.218	4.144	0.297
0.130	0.134	0.347	0.528	2.505	0.133

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
4.477	3.695	9.873	8.296	24.001	3.731
3.085	2.408	4.091	3.208	18.236	2.599

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.466	0.861	4.110	12.191	1.162	0.431
0.341	0.640	3.270	7.714	1.143	0.319

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
6.327	1244.483	1565.336	2164.557	215.902	842.480
0.531	651.380	1209.217	1766.622	149.332	455.281

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.021	0.003	0.008
0.005	0.006	0.012	0.017	0.002	0.004

.5 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.059	0.068	0.211	0.283	0.023	0.047
0.023	0.027	0.114	0.131	0.015	0.018

.5 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.003	0.002	0.001	0.002
0.002	0.002	0.003	0.002	0.001	0.002

.5 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.005	0.005	0.005	0.005	0.003	0.005
0.005	0.005	0.005	0.005	0.003	0.005

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.810	6.757	5.181	5.233	33.336	10.957
8.151	13.212	12.652	12.777	47.820	20.196

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.061	19.576	6.698	4.037	0.000	21.979
9.061	19.576	6.698	4.037	0.000	21.979

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Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.088	0.122	0.451	0.191	1.369	0.101
0.153	0.223	0.781	0.372	1.537	0.166
0.274	0.413	1.390	0.705	1.677	0.289
0.384	0.587	1.932	1.000	2.220	0.402
0.483	0.746	2.407	1.256	2.568	0.504
0.571	0.890	2.815	1.473	2.918	0.596
0.646	1.016	3.145	1.651	3.152	0.674
0.769	1.257	2.786	1.498	2.825	0.806
0.597	1.093	2.959	1.590	2.630	0.650
0.633	1.159	3.127	1.678	2.809	0.689
0.668	1.224	3.289	1.764	2.985	0.727
0.702	1.288	3.446	1.847	3.159	0.765
0.735	1.351	3.598	1.927	3.330	0.801
0.768	1.413	3.745	2.004	3.499	0.837
0.800	1.473	3.887	2.078	3.665	0.873
0.831	1.533	4.024	2.149	3.829	0.907
0.861	1.592	4.155	2.217	3.990	0.941
0.891	1.650	4.281	2.283	4.148	0.975

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.934	1.375	6.652	2.406	4.264	0.932
1.730	2.602	12.471	4.715	4.989	1.703
3.240	4.936	23.376	9.039	6.386	3.166
4.639	7.109	33.304	12.972	7.712	4.525
5.928	9.124	42.255	16.513	8.967	5.780

7.107	10.978	50.229	19.664	10.151	6.930
8.176	12.672	57.225	22.424	11.265	7.976
0.495	15.140	43.668	17.258	14.279	10.077
7.508	11.367	45.170	17.762	11.334	7.289
7.964	12.126	46.688	18.283	12.821	7.755
8.383	12.815	48.223	18.821	14.165	8.181
8.765	13.433	49.775	19.375	15.366	8.567
9.111	13.981	51.343	19.946	16.423	8.914
9.419	14.459	52.927	20.534	17.337	9.221
9.691	14.865	54.528	21.138	18.107	9.488
9.926	15.202	56.146	21.759	18.735	9.715
0.124	15.467	57.780	22.397	19.219	9.903
0.285	15.663	59.431	23.051	19.559	10.051

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.270	0.872	1.096	0.689	0.195	0.331
0.308	0.972	1.649	1.039	0.232	0.375
0.375	1.149	2.619	1.652	0.298	0.454
0.430	1.297	3.409	2.152	0.353	0.520
0.474	1.416	4.020	2.538	0.397	0.573
0.507	1.505	4.452	2.811	0.429	0.612
0.528	1.565	4.704	2.970	0.451	0.637
0.560	1.670	4.785	3.022	0.459	0.676
0.583	1.689	4.767	3.010	0.455	0.694
0.579	1.677	4.740	2.993	0.446	0.689
0.573	1.658	4.704	2.971	0.434	0.681
0.564	1.633	4.656	2.942	0.420	0.671
0.553	1.600	4.602	2.907	0.404	0.658
0.540	1.562	4.538	2.867	0.386	0.642
0.525	1.516	4.464	2.821	0.365	0.624
0.508	1.463	4.380	2.769	0.341	0.603
0.486	1.404	4.288	2.711	0.316	0.580

0.467	1.338	4.186	2.647	0.288	0.554

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
3.689	19.146	6.988	3.840	18.283	13.647
6.220	22.805	12.604	7.658	20.657	16.133
1.763	30.803	23.737	15.231	25.302	21.581
7.949	39.709	34.737	22.720	29.810	27.666
4.777	49.521	45.606	30.123	34.182	34.387
2.247	60.241	56.343	37.441	38.416	41.744
0.360	71.868	66.947	44.675	42.515	49.737
9.202	155.699	112.925	75.984	61.163	107.843
4.712	178.005	132.752	89.769	64.422	123.093
9.991	199.963	151.408	102.741	67.490	138.121
5.040	221.571	168.895	114.899	70.368	152.928
9.858	242.831	185.211	126.243	73.055	167.513
4.447	263.743	200.357	136.774	75.552	181.877
8.805	284.305	214.334	146.491	77.859	196.020
2.932	304.519	227.140	155.395	79.976	209.941
6.829	324.384	238.776	163.484	81.902	223.640
0.496	343.900	249.242	170.761	83.638	237.118
3.933	363.068	258.538	177.223	85.184	250.374

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000

0.000	0.001	0.001	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.001	0.002	0.002	0.001	0.001	0.001
0.002	0.002	0.002	0.001	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.003	0.003	0.002	0.001	0.002
0.002	0.004	0.003	0.002	0.001	0.002
0.003	0.004	0.004	0.002	0.001	0.003

.5 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.001	0.001	0.007	0.001
0.002	0.002	0.002	0.001	0.007	0.002
0.004	0.003	0.003	0.002	0.005	0.003
0.006	0.005	0.005	0.003	0.004	0.004
0.007	0.006	0.006	0.004	0.003	0.006
0.009	0.007	0.007	0.005	0.003	0.007
0.010	0.009	0.008	0.005	0.003	0.008
0.016	0.013	0.011	0.007	0.006	0.012
0.017	0.014	0.011	0.008	0.009	0.013
0.019	0.015	0.012	0.008	0.011	0.014
0.020	0.016	0.012	0.008	0.013	0.015
0.021	0.017	0.012	0.008	0.015	0.015
0.022	0.018	0.013	0.009	0.017	0.016
0.022	0.018	0.013	0.009	0.018	0.017
0.023	0.019	0.013	0.009	0.019	0.017

0.023	0.019	0.014	0.009	0.020	0.017
0.024	0.019	0.014	0.010	0.020	0.018
0.024	0.020	0.015	0.010	0.020	0.018

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Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.067	0.028	0.011	0.022	0.086	0.055
0.123	0.051	0.020	0.040	0.160	0.101
0.209	0.087	0.034	0.068	0.274	0.172
0.269	0.112	0.044	0.087	0.355	0.221
0.291	0.121	0.047	0.094	0.385	0.239

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

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Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.048	0.025	0.001	0.001	0.068	0.041

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odel years in the range 1971 to 2015 selected

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Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.004	0.002	0.000	0.000	0.006	0.003

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odel years in the range 1971 to 2015 selected

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Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.028	0.016	0.001	0.000	0.031	0.024

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odel years in the range 1971 to 2015 selected

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Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.002

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odel years in the range 1971 to 2015 selected

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Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.399	0.118	0.001	0.002	0.011	1.000
0.358	0.180	0.005	0.000	0.014	1.000
0.384	0.101	0.001	0.000	0.045	1.000

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odel years in the range 1971 to 2015 selected

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Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.559	0.287	0.111	0.178	0.023	0.267
0.286	0.149	0.059	0.092	0.059	0.142
0.198	0.104	0.042	0.064	0.078	0.103
0.156	0.084	0.035	0.051	0.089	0.085
0.131	0.071	0.031	0.043	0.097	0.074
0.083	0.048	0.023	0.029	0.113	0.055
0.070	0.042	0.021	0.025	0.119	0.050
0.066	0.041	0.020	0.025	0.123	0.049
0.064	0.041	0.020	0.025	0.126	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.127	0.049
0.065	0.041	0.020	0.025	0.126	0.049

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odel years in the range 1986 to 2030 selected

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Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 1: Running Exhaust Emissions (grams/mile)

al Organic Gases Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.086	0.121	0.245	1.032	3.955	0.119
0.033	0.049	0.124	0.439	2.335	0.055

bon Monoxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
1.430	1.717	3.107	7.765	20.713	1.426
1.082	1.223	1.323	3.030	15.808	1.069

des of Nitrogen Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.136	0.297	1.207	9.072	1.182	0.151
0.099	0.222	0.892	5.862	1.115	0.112

bon Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
8.997	1258.499	1537.208	2101.046	221.960	838.127
9.959	653.394	1347.109	1698.910	153.751	451.347

fur Dioxide Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.009	0.012	0.015	0.020	0.003	0.008
0.005	0.006	0.013	0.016	0.002	0.004

.5 Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.059	0.072	0.180	0.225	0.018	0.047
0.022	0.028	0.098	0.104	0.012	0.018

.5 - Tire Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.003	0.002	0.001	0.002
0.002	0.002	0.003	0.002	0.001	0.002

.5 - Brake Wear Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
0.005	0.005	0.005	0.005	0.003	0.005
0.005	0.005	0.005	0.005	0.003	0.005

oline - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.924	6.777	5.276	5.230	33.292	11.142
8.382	13.268	12.885	12.772	47.789	20.560

sel - mi/gal Temperature: 57F Relative Humidity: 68%

LDT	MDT	HDT	UBUS	MCY	ALL
9.156	19.472	6.698	4.207	0.000	18.138
9.156	19.472	6.698	4.207	0.000	18.138

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Table 2: Starting Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.016	0.045	0.123	0.223	1.011	0.032
0.032	0.089	0.240	0.435	1.227	0.053
0.061	0.174	0.454	0.825	1.643	0.094
0.088	0.256	0.644	1.169	2.039	0.131
0.113	0.333	0.809	1.468	2.416	0.167
0.137	0.406	0.949	1.721	2.772	0.200
0.158	0.475	1.064	1.930	3.029	0.229
0.233	0.771	0.965	1.751	3.023	0.328
0.169	0.623	1.024	1.858	2.650	0.257
0.179	0.663	1.081	1.962	2.818	0.273
0.189	0.702	1.136	2.062	2.984	0.289
0.200	0.742	1.190	2.159	3.146	0.305
0.210	0.781	1.241	2.252	3.305	0.320
0.219	0.819	1.291	2.342	3.460	0.336
0.229	0.858	1.339	2.429	3.612	0.351
0.239	0.896	1.384	2.512	3.761	0.366
0.248	0.934	1.428	2.592	3.907	0.381
0.258	0.972	1.471	2.668	4.049	0.396

bon Monoxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.238	0.673	2.160	2.426	3.492	0.325
0.470	1.332	4.232	4.754	4.594	0.611
0.914	2.603	8.113	9.114	6.684	1.159
1.332	3.813	11.643	13.080	8.623	1.677
1.725	4.964	14.822	16.651	10.409	2.165
2.091	6.054	17.649	19.827	12.043	2.622
2.432	7.083	20.126	22.610	13.526	3.049
3.637	11.014	15.490	17.401	17.779	4.554
2.428	7.205	15.942	17.910	12.329	3.037
2.616	7.844	16.410	18.435	13.462	3.287
2.783	8.406	16.893	18.977	14.504	3.509
2.929	8.891	17.390	19.536	15.454	3.702
3.055	9.300	17.903	20.112	16.313	3.868
3.161	9.631	18.430	20.704	17.081	4.006
3.246	9.885	18.973	21.314	17.758	4.116
3.310	10.062	19.530	21.940	18.343	4.198
3.354	10.162	20.102	22.583	18.837	4.252
3.378	10.185	20.689	23.242	19.240	4.279

des of Nitrogen Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.088	0.726	0.414	0.811	0.168	0.187
0.095	0.757	0.623	1.222	0.211	0.198
0.108	0.815	0.992	1.944	0.286	0.219
0.119	0.866	1.292	2.532	0.348	0.237
0.128	0.909	1.523	2.986	0.397	0.252
0.135	0.945	1.687	3.307	0.433	0.264

0.140	0.973	1.783	3.494	0.456	0.273
0.151	1.067	1.813	3.554	0.462	0.296
0.156	1.080	1.807	3.541	0.460	0.302
0.157	1.071	1.797	3.521	0.453	0.300
0.155	1.057	1.783	3.494	0.444	0.296
0.152	1.038	1.766	3.461	0.433	0.291
0.149	1.013	1.745	3.420	0.420	0.284
0.145	0.983	1.721	3.373	0.406	0.276
0.141	0.947	1.693	3.318	0.389	0.267
0.135	0.906	1.662	3.257	0.370	0.256
0.129	0.860	1.627	3.189	0.350	0.244
0.123	0.807	1.588	3.113	0.327	0.230

bon Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
6.063	21.678	3.551	3.883	13.252	14.820
6.981	24.476	7.083	7.744	15.449	16.717
1.430	30.950	14.088	15.403	19.761	21.105
6.695	38.597	21.014	22.975	23.967	26.284
2.777	47.415	27.861	30.462	28.065	32.255
9.675	57.404	34.630	37.862	32.057	39.019
7.389	68.566	41.321	45.177	35.941	46.573
9.831	158.602	70.279	76.838	53.385	107.512
4.743	180.175	83.029	90.779	57.626	122.070
8.615	201.680	95.027	103.896	61.617	136.586
4.445	223.118	106.273	116.191	65.359	151.057
9.236	244.488	116.765	127.663	68.853	165.486
3.985	265.791	126.505	138.312	72.098	179.871
8.694	287.026	135.493	148.139	75.094	194.212
3.363	308.195	143.728	157.142	77.841	208.510
7.991	329.296	151.211	165.323	80.339	222.765
2.578	350.329	157.940	172.681	82.588	236.976
7.125	371.295	163.918	179.216	84.589	251.144

fur Dioxide Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.001	0.000	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.000	0.001	0.001	0.001	0.001	0.000
0.001	0.002	0.001	0.001	0.001	0.001
0.001	0.002	0.001	0.001	0.001	0.001
0.001	0.002	0.001	0.001	0.001	0.001
0.002	0.002	0.001	0.001	0.001	0.002
0.002	0.003	0.001	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.003	0.002	0.002	0.001	0.002
0.002	0.004	0.002	0.002	0.001	0.002
0.003	0.004	0.002	0.002	0.001	0.002

.5 Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.001	0.001	0.000	0.001	0.005	0.001
0.002	0.002	0.001	0.001	0.005	0.001
0.003	0.003	0.002	0.002	0.004	0.003
0.005	0.005	0.003	0.003	0.003	0.004

0.006	0.006	0.003	0.004	0.003	0.005
0.008	0.007	0.004	0.005	0.002	0.006
0.009	0.009	0.004	0.006	0.002	0.007
0.015	0.014	0.006	0.008	0.005	0.011
0.016	0.016	0.006	0.008	0.007	0.013
0.018	0.017	0.006	0.008	0.008	0.014
0.019	0.018	0.006	0.009	0.010	0.015
0.020	0.019	0.007	0.009	0.011	0.016
0.021	0.020	0.007	0.009	0.012	0.016
0.022	0.021	0.007	0.009	0.013	0.017
0.023	0.022	0.007	0.010	0.014	0.017
0.023	0.022	0.007	0.010	0.014	0.018
0.023	0.022	0.008	0.010	0.015	0.018
0.023	0.022	0.008	0.010	0.015	0.018

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

****

Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 4: Hot Soak Emissions (grams/trip)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.041	0.025	0.006	0.026	0.076	0.032
0.076	0.045	0.012	0.047	0.141	0.059
0.129	0.077	0.020	0.080	0.243	0.100
0.165	0.099	0.025	0.103	0.314	0.128
0.178	0.107	0.027	0.111	0.342	0.139

led to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5a: Partial Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.031	0.026	0.001	0.001	0.070	0.026

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.002	0.000	0.000	0.007	0.002

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.021	0.019	0.000	0.001	0.032	0.017

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

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Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

al Organic Gases Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.002	0.001	0.000	0.000	0.003	0.001

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

****
Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.404	0.116	0.001	0.002	0.011	1.000
0.357	0.184	0.005	0.000	0.014	1.000
0.385	0.101	0.001	0.000	0.045	1.000

Avg Annual 4 CYrs 2009 to 2030 Default Title
3 Nov 1 2006
:21:43
odel years in the range 1986 to 2030 selected

****
Years 1986 to 2030 Inclusive -- Annual
Factors: V2.3 Nov 1 2006

Sonoma County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

al Organic Gases Temperature: 57F Relative Humidity: ALL

LDT	MDT	HDT	UBUS	MCY	ALL
0.277	0.227	0.066	0.509	0.004	0.144
0.142	0.117	0.034	0.258	0.036	0.075
0.099	0.082	0.024	0.175	0.054	0.055
0.079	0.066	0.019	0.135	0.064	0.046
0.067	0.057	0.017	0.111	0.070	0.040
0.045	0.039	0.012	0.065	0.084	0.031
0.038	0.034	0.010	0.052	0.089	0.028
0.036	0.033	0.010	0.046	0.091	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.009	0.045	0.093	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027
0.035	0.032	0.010	0.045	0.094	0.027

Urbemis 2007 Version 9.2.4

Detail Report for Annual Construction Unmitigated Emissions (Tons/Year)

e Name: P:\Sonoma\Urbemis\STS - Phase 1.urb924

oject Name: STS

oject Location: California State-wide

n-Road Vehicle Emissions Based on: Version. : Emfac2007 V2.3 Nov 1 2006

f-Road Vehicle Emissions Based on: OFFROAD2007

ONSTRUCTION EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust
12	0.38	3.02	1.72	0.00	11.42	0.16	11.59	2.39
Mass Grading 07/01/2012-02/26/2013	0.31	2.53	1.47	0.00	11.42	0.13	11.56	2.39
Mass Grading Dust	0.00	0.00	0.00	0.00	11.42	0.00	11.42	2.39
Mass Grading Off Road Diesel	0.30	2.35	1.32	0.00	0.00	0.12	0.12	0.00
Mass Grading On Road Diesel	0.01	0.17	0.06	0.00	0.00	0.01	0.01	0.00
Mass Grading Worker Trips	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Trenching 07/28/2012-02/26/2013	0.07	0.50	0.25	0.00	0.00	0.03	0.03	0.00
Trenching Off Road Diesel	0.07	0.49	0.21	0.00	0.00	0.03	0.03	0.00
Trenching Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00

13	0.50	4.41	2.60	0.00	21.46	0.23	21.69	4.48
Mass Grading 07/01/2012-02/26/2013	0.09	0.74	0.44	0.00	3.58	0.04	3.61	0.75
Mass Grading Dust	0.00	0.00	0.00	0.00	3.58	0.00	3.58	0.75
Mass Grading Off Road Diesel	0.09	0.69	0.40	0.00	0.00	0.04	0.04	0.00
Mass Grading On Road Diesel	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Trenching 07/28/2012-02/26/2013	0.02	0.17	0.09	0.00	0.00	0.01	0.01	0.00
Trenching Off Road Diesel	0.02	0.17	0.08	0.00	0.00	0.01	0.01	0.00
Trenching Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Fine Grading 02/27/2013-10/25/2013	0.27	2.19	1.26	0.00	15.09	0.10	15.19	3.15
Fine Grading Dust	0.00	0.00	0.00	0.00	15.09	0.00	15.09	3.15
Fine Grading Off Road Diesel	0.27	2.18	1.19	0.00	0.00	0.10	0.10	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
Asphalt 07/16/2013-10/25/2013	0.11	0.46	0.29	0.00	0.00	0.04	0.04	0.00
Paving Off-Gas	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.06	0.36	0.22	0.00	0.00	0.03	0.03	0.00
Paving On Road Diesel	0.01	0.10	0.04	0.00	0.00	0.00	0.00	0.00
Paving Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Mass Grading 10/26/2013-05/13/2014	0.11	0.85	0.51	0.00	2.80	0.04	2.84	0.58
Mass Grading Dust	0.00	0.00	0.00	0.00	2.80	0.00	2.80	0.58
Mass Grading Off Road Diesel	0.10	0.79	0.46	0.00	0.00	0.04	0.04	0.00
Mass Grading On Road Diesel	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00

14	0.49	2.62	2.23	0.00	14.16	0.18	14.34	2.96
Mass Grading 10/26/2013-05/13/2014	0.20	1.59	1.00	0.00	5.55	0.08	5.73	1.18
Mass Grading Dust	0.00	0.00	0.00	0.00	5.55	0.00	5.55	1.18
Mass Grading Off Road Diesel	0.19	1.49	0.90	0.00	0.00	0.07	0.07	0.00
Mass Grading On Road Diesel	0.01	0.10	0.04	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
Trenching 03/28/2014-05/13/2014	0.02	0.13	0.07	0.00	0.00	0.01	0.01	0.00
Trenching Off Road Diesel	0.02	0.13	0.06	0.00	0.00	0.01	0.01	0.00
Trenching Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Fine Grading 05/14/2014-11/29/2014	0.21	1.68	1.01	0.00	8.51	0.08	8.59	1.78
Fine Grading Dust	0.00	0.00	0.00	0.00	8.51	0.00	8.51	1.78
Fine Grading Off Road Diesel	0.21	1.68	0.95	0.00	0.00	0.08	0.08	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
Asphalt 10/26/2014-12/23/2014	0.05	0.22	0.15	0.00	0.00	0.02	0.02	0.00
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.03	0.19	0.12	0.00	0.00	0.02	0.02	0.00
Paving On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00
Paving Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00

Phase Assumptions

ase: Fine Grading 2/27/2013 - 10/25/2013 - Default Fine Site Grading Description
tal Acres Disturbed: 34.87
ximum Daily Acreage Disturbed: 8.72
gitive Dust Level of Detail: Default
lbs per acre-day
Road Truck Travel (VMT): 0
f-Road Equipment:
Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Fine Grading 5/14/2014 - 11/29/2014 - Type Your Description Here
tal Acres Disturbed: 23.78
ximum Daily Acreage Disturbed: 5.95
gitive Dust Level of Detail: Default
lbs per acre-day
Road Truck Travel (VMT): 0
f-Road Equipment:
Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Mass Grading 7/1/2012 - 2/26/2013 - Default Mass Site Grading Description
tal Acres Disturbed: 34.87
ximum Daily Acreage Disturbed: 8.72
gitive Dust Level of Detail: Default
lbs per acre-day
Road Truck Travel (VMT): 114.16
f-Road Equipment:
Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Mass Grading 10/26/2013 - 5/13/2014 - Type Your Description Here
tal Acres Disturbed: 23.78
ximum Daily Acreage Disturbed: 5.95
gitive Dust Level of Detail: Default
lbs per acre-day
Road Truck Travel (VMT): 115.38
f-Road Equipment:

Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Trenching 7/28/2012 - 2/26/2013 - Default Trenching Description
f-Road Equipment:
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Trenching 3/28/2014 - 5/13/2014 - Type Your Description Here
f-Road Equipment:
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Paving 7/15/2013 - 10/25/2013 - Default Paving Description
res to be Paved: 33.21
f-Road Equipment:
Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

ase: Paving 10/26/2014 - 12/23/2014 - Type Your Description Here
res to be Paved: 10.6
f-Road Equipment:
Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Urbemis 2007 Version 9.2.4

Detail Report for Summer Construction Unmitigated Emissions (Pounds/Day)

e Name: P:\Sonoma\Urbemis\STS - Phase 1.urb924
oject Name: STS
oject Location: California State-wide
n-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
f-Road Vehicle Emissions Based on: OFFROAD2007

ONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust
ne Slice 7/2/2012-7/27/2012 tive Days: 20	4.76	38.61	22.43	0.01	174.42	2.00	176.42	36.43
Mass Grading 07/01/2012- 2/26/2013	4.76	38.61	22.43	0.01	174.42	2.00	176.42	36.43
Mass Grading Dust	0.00	0.00	0.00	0.00	174.40	0.00	174.40	36.42
Mass Grading Off Road Diesel	4.53	35.86	20.09	0.00	0.00	1.89	1.89	0.00
Mass Grading On Road Diesel	0.18	2.67	0.92	0.00	0.02	0.10	0.12	0.01
Mass Grading Worker Trips	0.04	0.08	1.42	0.00	0.01	0.00	0.01	0.00
ne Slice 7/30/2012-12/31/2012 tive Days: 111	6.01	47.54	27.01	0.01	174.43	2.54	176.97	36.43
Mass Grading 07/01/2012- 2/26/2013	4.76	38.61	22.43	0.01	174.42	2.00	176.42	36.43
Mass Grading Dust	0.00	0.00	0.00	0.00	174.40	0.00	174.40	36.42
Mass Grading Off Road Diesel	4.53	35.86	20.09	0.00	0.00	1.89	1.89	0.00
Mass Grading On Road Diesel	0.18	2.67	0.92	0.00	0.02	0.10	0.12	0.01
Mass Grading Worker Trips	0.04	0.08	1.42	0.00	0.01	0.00	0.01	0.00
Trenching 07/28/2012-02/26/2013	1.25	8.94	4.58	0.00	0.00	0.54	0.55	0.00
Trenching Off Road Diesel	1.22	8.90	3.87	0.00	0.00	0.54	0.54	0.00
Trenching Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00

ne Slice 1/1/2013-2/26/2013 tive Days: 41	5.65	44.40	25.15	0.01	174.43	2.34	176.77	36.43
Mass Grading 07/01/2012-02/26/2013	4.48	36.05	21.58	0.01	174.42	1.84	176.26	36.43
Mass Grading Dust	0.00	0.00	0.00	0.00	174.40	0.00	174.40	36.42
Mass Grading Off Road Diesel	4.27	33.62	19.54	0.00	0.00	1.75	1.75	0.00
Mass Grading On Road Diesel	0.17	2.35	0.83	0.00	0.02	0.09	0.10	0.01
Mass Grading Worker Trips	0.04	0.07	1.31	0.00	0.01	0.00	0.01	0.00
Trenching 07/28/2012-02/26/2013	1.17	8.35	4.47	0.00	0.00	0.50	0.51	0.00
Trenching Off Road Diesel	1.15	8.32	3.81	0.00	0.00	0.50	0.50	0.00
Trenching Worker Trips	0.02	0.03	0.66	0.00	0.00	0.00	0.01	0.00
ne Slice 2/27/2013-7/15/2013 tive Days: 99	3.15	25.28	14.61	0.00	174.40	1.20	175.61	36.42
Fine Grading 02/27/2013-10/25/2013	3.15	25.28	14.61	0.00	174.40	1.20	175.61	36.42
Fine Grading Dust	0.00	0.00	0.00	0.00	174.40	0.00	174.40	36.42
Fine Grading Off Road Diesel	3.12	25.24	13.73	0.00	0.00	1.20	1.20	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.03	0.05	0.87	0.00	0.00	0.00	0.01	0.00
ne Slice 7/16/2013-10/25/2013 tive Days: 74	6.14	37.76	22.40	0.01	174.43	2.15	176.58	36.43
Asphalt 07/16/2013-10/25/2013	2.99	12.47	7.80	0.01	0.02	0.95	0.97	0.01
Paving Off-Gas	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.59	9.67	5.95	0.00	0.00	0.84	0.84	0.00
Paving On Road Diesel	0.20	2.75	0.97	0.00	0.02	0.10	0.12	0.01
Paving Worker Trips	0.03	0.05	0.87	0.00	0.00	0.00	0.01	0.00
Fine Grading 02/27/2013-10/25/2013	3.15	25.28	14.61	0.00	174.40	1.20	175.61	36.42
Fine Grading Dust	0.00	0.00	0.00	0.00	174.40	0.00	174.40	36.42
Fine Grading Off Road Diesel	3.12	25.24	13.73	0.00	0.00	1.20	1.20	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.03	0.05	0.87	0.00	0.00	0.00	0.01	0.00

ne Slice 10/26/2013-12/31/2013 tive Days: 47	4.49	36.07	21.69	0.01	119.02	1.84	120.86	24.86
Mass Grading 10/26/2013-05/13/2014	4.49	36.07	21.69	0.01	119.02	1.84	120.86	24.86
Mass Grading Dust	0.00	0.00	0.00	0.00	119.00	0.00	119.00	24.85
Mass Grading Off Road Diesel	4.27	33.62	19.54	0.00	0.00	1.75	1.75	0.00
Mass Grading On Road Diesel	0.17	2.39	0.84	0.00	0.02	0.09	0.11	0.01
Mass Grading Worker Trips	0.04	0.07	1.31	0.00	0.01	0.00	0.01	0.00
ne Slice 1/1/2014-3/27/2014 tive Days: 62	4.23	33.47	21.00	0.01	119.02	1.65	120.67	24.86
Mass Grading 10/26/2013-05/13/2014	4.23	33.47	21.00	0.01	119.02	1.65	120.67	24.86
Mass Grading Dust	0.00	0.00	0.00	0.00	119.00	0.00	119.00	24.85
Mass Grading Off Road Diesel	4.04	31.31	19.04	0.00	0.00	1.56	1.56	0.00
Mass Grading On Road Diesel	0.16	2.10	0.75	0.00	0.02	0.08	0.09	0.01
Mass Grading Worker Trips	0.04	0.06	1.21	0.00	0.01	0.00	0.01	0.00
ne Slice 3/28/2014-5/13/2014 tive Days: 33	5.34	41.18	25.36	0.01	119.03	2.11	121.13	24.86
Mass Grading 10/26/2013-05/13/2014	4.23	33.47	21.00	0.01	119.02	1.65	120.67	24.86
Mass Grading Dust	0.00	0.00	0.00	0.00	119.00	0.00	119.00	24.85
Mass Grading Off Road Diesel	4.04	31.31	19.04	0.00	0.00	1.56	1.56	0.00
Mass Grading On Road Diesel	0.16	2.10	0.75	0.00	0.02	0.08	0.09	0.01
Mass Grading Worker Trips	0.04	0.06	1.21	0.00	0.01	0.00	0.01	0.00
Trenching 03/28/2014-05/13/2014	1.12	7.71	4.36	0.00	0.00	0.46	0.46	0.00
Trenching Off Road Diesel	1.10	7.68	3.76	0.00	0.00	0.46	0.46	0.00
Trenching Worker Trips	0.02	0.03	0.61	0.00	0.00	0.00	0.01	0.00

ne Slice 5/14/2014-10/24/2014 tive Days: 118	2.98	23.50	14.07	0.00	119.00	1.08	120.09	24.85
Fine Grading 05/14/2014-1/29/2014	2.98	23.50	14.07	0.00	119.00	1.08	120.09	24.85
Fine Grading Dust	0.00	0.00	0.00	0.00	119.00	0.00	119.00	24.85
Fine Grading Off Road Diesel	2.96	23.46	13.26	0.00	0.00	1.08	1.08	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.02	0.04	0.81	0.00	0.00	0.00	0.01	0.00
ne Slice 10/27/2014-11/28/2014 tive Days: 25	5.25	34.05	21.25	0.00	119.02	1.93	120.95	24.86
sphalt 10/26/2014-12/23/2014	2.27	10.55	7.18	0.00	0.02	0.84	0.86	0.01
Paving Off-Gas	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.50	9.18	5.90	0.00	0.00	0.79	0.79	0.00
Paving On Road Diesel	0.10	1.33	0.48	0.00	0.01	0.05	0.06	0.00
Paving Worker Trips	0.02	0.04	0.81	0.00	0.00	0.00	0.01	0.00
Fine Grading 05/14/2014-1/29/2014	2.98	23.50	14.07	0.00	119.00	1.08	120.09	24.85
Fine Grading Dust	0.00	0.00	0.00	0.00	119.00	0.00	119.00	24.85
Fine Grading Off Road Diesel	2.96	23.46	13.26	0.00	0.00	1.08	1.08	0.00
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.02	0.04	0.81	0.00	0.00	0.00	0.01	0.00
ne Slice 12/1/2014-12/23/2014 tive Days: 17	2.27	10.55	7.18	0.00	0.02	0.84	0.86	0.01
sphalt 10/26/2014-12/23/2014	2.27	10.55	7.18	0.00	0.02	0.84	0.86	0.01
Paving Off-Gas	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.50	9.18	5.90	0.00	0.00	0.79	0.79	0.00
Paving On Road Diesel	0.10	1.33	0.48	0.00	0.01	0.05	0.06	0.00
Paving Worker Trips	0.02	0.04	0.81	0.00	0.00	0.00	0.01	0.00

Phase Assumptions

ase: Fine Grading 2/27/2013 - 10/25/2013 - Default Fine Site Grading Description

tal Acres Disturbed: 34.87

ximum Daily Acreage Disturbed: 8.72

gitive Dust Level of Detail: Default

lbs per acre-day

Road Truck Travel (VMT): 0

f-Road Equipment:

Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Fine Grading 5/14/2014 - 11/29/2014 - Type Your Description Here

tal Acres Disturbed: 23.78

ximum Daily Acreage Disturbed: 5.95

gitive Dust Level of Detail: Default

lbs per acre-day

Road Truck Travel (VMT): 0

f-Road Equipment:

Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Mass Grading 7/1/2012 - 2/26/2013 - Default Mass Site Grading Description

tal Acres Disturbed: 34.87

ximum Daily Acreage Disturbed: 8.72

gitive Dust Level of Detail: Default

lbs per acre-day

Road Truck Travel (VMT): 114.16

f-Road Equipment:

Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Mass Grading 10/26/2013 - 5/13/2014 - Type Your Description Here

tal Acres Disturbed: 23.78
aximum Daily Acreage Disturbed: 5.95
gitive Dust Level of Detail: Default
lbs per acre-day
Road Truck Travel (VMT): 115.38
f-Road Equipment:
Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Trenching 7/28/2012 - 2/26/2013 - Default Trenching Description
f-Road Equipment:
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Trenching 3/28/2014 - 5/13/2014 - Type Your Description Here
f-Road Equipment:
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day
Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

ase: Paving 7/15/2013 - 10/25/2013 - Default Paving Description
res to be Paved: 33.21
f-Road Equipment:
Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

ase: Paving 10/26/2014 - 12/23/2014 - Type Your Description Here
res to be Paved: 10.6
f-Road Equipment:
Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day
Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

EDMS 5.1.3 Model Inputs for 2009 No Action Study

Study Created: Fri Apr 15 11:39:46 2011
Report Date: Wed May 04 14:23:00 2011
Study Pathname: P:\Sonoma\EDMS\042911 Run\2009 No Action\2009 No Action.edm

Study Setup

Unit System: English
Dispersion Modeling: Dispersion is not enabled for this study
Speciated Organic Gas (OG) Modeling: Speciated Organic Gas (OG) Emissions are excluded from this study.
Analysis Years: 2009

Scenarios

Scenario Name: No Action
Description: Add a description.
Aircraft Times in Mode Basis: Performance-Based
Taxi Time Modeling: User-specified Taxi Times
FOA3 Sulfur-to-Sulfate Conversion Rate: 2.400000 %

Airports

Airport Name: Charles M. Schulz - Sonoma County
IATA Code: STS
ICAO Code: KSTS
FAA Code:
Country: US
State: California
City: Santa Rosa
Airport Description: Charles M. Schulz - Sonoma County
Latitude: 38.509°
Longitude: -122.813°
Northing: 4262306.23
Easting: 516314.45
UTM Zone: 10
Elevation: 125.00 feet
PM Modeling Methodology: FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%)

Scenario-Airport: No Action, Charles M. Schulz - Sonoma County

Weather

No Action, Charles M. Schulz - Sonoma County

Mixing Height: 2254.00 feet
Temperature: 57.00 °F
Daily High Temperature: 67.35 °F
Daily Low Temperature: 46.65 °F
Pressure: 29.92 inches of Hg
Sea Level Pressure: 29.99 inches of Hg
Relative Humidity: 68.66
Wind Speed: 4.83 knots
Wind Direction: 0.00 °
Ceiling: 99999.99 feet
Visibility: 50.00 miles
The user has used annual averages.
Base Elevation: 125.00 feet
Date Range: Thursday, January 01, 2004 to Friday, December 31, 2004
Source Data File Location:
Upper Air Data File Location:

Quarter-Hourly Operational Profiles

No Action, Charles M. Schulz - Sonoma County

Name: DEFAULT

Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight
12:00am to 12:14 am	1.000000	6:00am to 6:14am	1.000000	12:00pm to 12:14 pm	1.000000	6:00pm to 6:14pm	1.000000
12:15am to 12:29 am	1.000000	6:15am to 6:29am	1.000000	12:15pm to 12:29 pm	1.000000	6:15pm to 6:29pm	1.000000
12:30am to 12:44 am	1.000000	6:30am to 6:44am	1.000000	12:30pm to 12:44 pm	1.000000	6:30pm to 6:44pm	1.000000
12:45am to 12:59 am	1.000000	6:45am to 6:59am	1.000000	12:45pm to 12:59 pm	1.000000	6:45pm to 6:59pm	1.000000
1:00am to 1:14am	1.000000	7:00am to 7:14am	1.000000	1:00pm to 1:14pm	1.000000	7:00pm to 7:14pm	1.000000
1:15am to 1:29am	1.000000	7:15am to 7:29am	1.000000	1:15pm to 1:29pm	1.000000	7:15pm to 7:29pm	1.000000
1:30am to 1:44am	1.000000	7:30am to 7:44am	1.000000	1:30pm to 1:44pm	1.000000	7:30pm to 7:44pm	1.000000
1:45am to 1:59am	1.000000	7:45am to 7:59am	1.000000	1:45pm to 1:59pm	1.000000	7:45pm to 7:59pm	1.000000
2:00am to 2:14am	1.000000	8:00am to 8:14am	1.000000	2:00pm to 2:14pm	1.000000	8:00pm to 8:14pm	1.000000
2:15am to 2:29am	1.000000	8:15am to 8:29am	1.000000	2:15pm to 2:29pm	1.000000	8:15pm to 8:29pm	1.000000
2:30am to 2:44am	1.000000	8:30am to 8:44am	1.000000	2:30pm to 2:44pm	1.000000	8:30pm to 8:44pm	1.000000
2:45am to 2:59am	1.000000	8:45am to 8:59am	1.000000	2:45pm to 2:59pm	1.000000	8:45pm to 8:59pm	1.000000
3:00am to 3:14am	1.000000	9:00am to 9:14am	1.000000	3:00pm to 3:14pm	1.000000	9:00pm to 9:14pm	1.000000
3:15am to 3:29am	1.000000	9:15am to 9:29am	1.000000	3:15pm to 3:29pm	1.000000	9:15pm to 9:29pm	1.000000
3:30am to 3:44am	1.000000	9:30am to 9:44am	1.000000	3:30pm to 3:44pm	1.000000	9:30pm to 9:44pm	1.000000
3:45am to 3:59am	1.000000	9:45am to 9:59am	1.000000	3:45pm to 3:59pm	1.000000	9:45pm to 9:59pm	1.000000
4:00am to 4:14am	1.000000	10:00am to 10:14am	1.000000	4:00pm to 4:14pm	1.000000	10:00pm to 10:14pm	1.000000
4:15am to 4:29am	1.000000	10:15am to 10:29am	1.000000	4:15pm to 4:29pm	1.000000	10:15pm to 10:29pm	1.000000
4:30am to 4:44am	1.000000	10:30am to 10:44am	1.000000	4:30pm to 4:44pm	1.000000	10:30pm to 10:44pm	1.000000
4:45am to 4:59am	1.000000	10:45am to 10:59am	1.000000	4:45pm to 4:59pm	1.000000	10:45pm to 10:59pm	1.000000
5:00am to 5:14am	1.000000	11:00am to 11:14am	1.000000	5:00pm to 5:14pm	1.000000	11:00pm to 11:14pm	1.000000
5:15am to 5:29am	1.000000	11:15am to 11:29am	1.000000	5:15pm to 5:29pm	1.000000	11:15pm to 11:29pm	1.000000
5:30am to 5:44am	1.000000	11:30am to 11:44am	1.000000	5:30pm to 5:44pm	1.000000	11:30pm to 11:44pm	1.000000
5:45am to 5:59am	1.000000	11:45am to 11:59am	1.000000	5:45pm to 5:59pm	1.000000	11:45pm to 11:59pm	1.000000

Daily Operational Profiles

No Action, Charles M. Schulz - Sonoma County

Name: DEFAULT

Day	Weight	Day	Weight
Monday	1.000000	Friday	1.000000
Tuesday	1.000000	Saturday	1.000000
Wednesday	1.000000	Sunday	1.000000
Thursday	1.000000		

Monthly Operational Profiles

No Action, Charles M. Schulz - Sonoma County

Name: DEFAULT

Month	Weight	Month	Weight
January	1.000000	July	1.000000
February	1.000000	August	1.000000
March	1.000000	September	1.000000
April	1.000000	October	1.000000
May	1.000000	November	1.000000
June	1.000000	December	1.000000

Aircraft

No Action, Charles M. Schulz - Sonoma County

Default Taxi Out Time: 19.000000 min

Default Taxi In Time: 7.000000 min

Year:	Uses Schedule?	Schedule Filename:
2009	No	(None)

Aircraft Name: Agusta A-109
Engine Type: 250B17B
Identification: 0
Category: SGTH

Take Off weight:	2599.00 Kgs
Approach Weight:	2599.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year: 2009

Annual Departures:	462
Annual Arrivals:	462
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name: Bell 206 JetRanger
Engine Type: 250B17B
Identification: 0
Category: SGTH

Take Off weight:	1814.00 Kgs
Approach Weight:	1814.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year: 2009

Annual Departures:	22
Annual Arrivals:	22
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly	

Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name: Bell 407
Engine Type: 250B17B
Identification: 0
Category: SGTH

Take Off weight:	2722.00 Kgs
Approach Weight:	2722.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year: 2009

Annual Departures:	433
Annual Arrivals:	433
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name: Bell 407
Engine Type: 250B17B
Identification: 0 - Copy
Category: SGTH

Take Off weight:	2722.00 Kgs
Approach Weight:	2722.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year: 2009

Annual Departures:	21
Annual Arrivals:	21
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT

Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Boeing 737-700 Series
Engine Type:
CFM56-7B22
Identification:
1
Category:
LCJP

Take Off weight:	70035.00 Kgs
Approach Weight:	52254.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU 131-9
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	15
Annual Arrivals:	15
Annual TGOs:	0
Taxi Out Time:	5.050000 min
Taxi In Time:	5.050000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier CRJ-200
Engine Type:
CF34-3B
Identification:
4
Category:
LCJP

Take Off weight:	36287.00 Kgs
Approach Weight:	33339.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 36-150[RR]
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	0
Annual Arrivals:	0
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational	

profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier CRJ-900
Engine Type:
CF34-8C5 LEC
Identification:
4
Category:
LCJP

Take Off weight:	36287.00 Kgs
Approach Weight:	33339.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 85 (200 HP)
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	0
Annual Arrivals:	0
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier CRJ-900-ER
Engine Type:
CF34-8C5 LEC
Identification:
4
Category:
LCJP

Take Off weight:	36287.00 Kgs
Approach Weight:	33339.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 85 (200 HP)
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	0
Annual Arrivals:	0
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT

Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier Challenger 600
Engine Type:
ALF 502L-2
Identification:
4
Category:
LGJB

Take Off weight:	15329.00 Kgs
Approach Weight:	13472.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 36-100
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	312
Annual Arrivals:	312
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier Learjet 25
Engine Type:
CJ610-6
Identification:
4
Category:
SGJB

Take Off weight:	6804.00 Kgs
Approach Weight:	5534.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	24
Annual Arrivals:	24
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational

profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier Learjet 35
Engine Type:
TFE731-2-2B
Identification:
4
Category:
SGJB

Take Off weight:	8301.00 Kgs
Approach Weight:	6260.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	334
Annual Arrivals:	334
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Bombardier de Havilland Dash 8 Q400
Engine Type:
PW150A
Identification:
6
Category:
LCTP

Take Off weight:	17554.00 Kgs
Approach Weight:	17146.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	1755
Annual Arrivals:	1755
Annual TGOs:	0
Taxi Out Time:	6.750000 min
Taxi In Time:	6.750000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 172 Skyhawk
Engine Type:
O-320
Identification:
2
Category:
SGPP

Take Off weight:	1111.00 Kgs
Approach Weight:	1111.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	2670
Annual Arrivals:	2670
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 172 Skyhawk
Engine Type:
O-320
Identification:
2 - Copy
Category:
SGPP

Take Off weight:	1111.00 Kgs
Approach Weight:	1111.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	10961
Annual Arrivals:	10961
Annual TGOs:	0

Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 182
Engine Type:
IO-360-B
Identification:
2
Category:
SGPP

Take Off weight:	1270.00 Kgs
Approach Weight:	1270.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	1456
Annual Arrivals:	1456
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 182
Engine Type:
IO-360-B
Identification:
2 - Copy
Category:
SGPP

Take Off weight:	1270.00 Kgs
Approach Weight:	1270.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:

Annual Departures:	0369

2009

Annual Arrivals:	6389
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 208
Engine Type:
IO-360-B
Identification:
2
Category:
SGPP

Take Off weight:	1361.00 Kgs
Approach Weight:	1225.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	3538
Annual Arrivals:	3538
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 208
Engine Type:
IO-360-B
Identification:
2 - Copy
Category:
SGPP

Take Off weight:	1361.00 Kgs
Approach Weight:	1225.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	1231
Annual Arrivals:	1231
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 208 Caravan
Engine Type:
PT6A-114A
Identification:
5
Category:
SGTS

Take Off weight:	5080.00 Kgs
Approach Weight:	4686.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	838
Annual Arrivals:	838
Annual TGOs:	0
Taxi Out Time:	11.460000 min
Taxi In Time:	11.460000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 441 Conquest II
Engine Type:
TPE331-10
Identification:
2
Category:
SGTP

Take Off weight:	4468.00 Kgs
Approach Weight:	3821.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	926
Annual Arrivals:	926
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 500 Citation I
Engine Type:
JT15D-1 series
Identification:
4
Category:
SGJB

Take Off weight:	6668.00 Kgs
Approach Weight:	5715.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	350
Annual Arrivals:	350
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 500 Citation I
Engine Type:
JT15D-1 series
Identification:
4 - Copy
Category:
SGJB

Take Off weight:	6668.00 Kgs
Approach Weight:	5715.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	53
Annual Arrivals:	53
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 650 Citation III
Engine Type:
TFE731-3
Identification:
4
Category:
SGJB

Take Off weight:	9072.00 Kgs
Approach Weight:	6940.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	187
Annual Arrivals:	187
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Cessna 750 Citation X
Engine Type:
AE3007C Type 2
Identification:
4

Take Off weight:	16193.00 Kgs
Approach Weight:	12982.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None

Category:
SGJB

APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 262
Annual Arrivals: 262
Annual TGOs: 0
Taxi Out Time: 9.930000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Dassault Falcon 20-C
Engine Type:
CF700-2D
Identification:
4
Category:
SGJB

Take Off weight: 13000.00 Kgs
Approach Weight: 11140.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-150[]
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 134
Annual Arrivals: 134
Annual TGOs: 0
Taxi Out Time: 9.930000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Dornier 328 Jet
Engine Type:

Take Off weight: 16193.00 Kgs
Approach Weight: 12982.00 Kgs

PW306B Annular
Identification:
7
Category:
SCJP

Glide Slope: 3.00°
APU Assignment: APU GTCP 36-150[]
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 13
Annual Arrivals: 13
Annual TGOs: 0
Taxi Out Time: 5.890000 min
Taxi In Time: 5.890000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Embraer EMB120 Brasilia
Engine Type:
PW118
Identification:
2
Category:
SCTP

Take Off weight: 10184.00 Kgs
Approach Weight: 10535.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-150[]
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 6
Annual Arrivals: 6
Annual TGOs: 0
Taxi Out Time: 11.160000 min
Taxi In Time: 11.160000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Embraer ERJ145
Engine Type:
AE3007A1E Type 3
Identification:
4
Category:
LCJP

Take Off weight: 18960.00 Kgs
Approach Weight: 16831.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-150[]
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 15
Annual Arrivals: 15
Annual TGOs: 0
Taxi Out Time: 9.630000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Embraer ERJ190
Engine Type:
CF34-10E
Identification:
4
Category:
LCJP

Take Off weight: 51120.00 Kgs
Approach Weight: 44906.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-150[]
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 0
Annual Arrivals: 0
Annual TGOs: 0
Taxi Out Time: 9.930000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Gulfstream II
Engine Type:
SPEY Mk511 Transply IIH
Identification:
4
Category:
LCJP

Take Off weight: 25401.00 Kgs
Approach Weight: 23882.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-100
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 8
Annual Arrivals: 8
Annual TGOs: 0
Taxi Out Time: 9.930000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Gulfstream II-B
Engine Type:
SPEY Mk511 Transply IIH
Identification:
4
Category:
LCJP

Take Off weight: 25873.00 Kgs
Approach Weight: 23882.00 Kgs
Glide Slope: 3.00°
APU Assignment: APU GTCP 36-100
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures: 73
Annual Arrivals: 73
Annual TGOs: 0
Taxi Out Time: 9.930000 min
Taxi In Time: 9.930000 min

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT
Departure Monthly Operational Profile: DEFAULT
Arrival Quarter-Hourly Operational profile: DEFAULT
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: DEFAULT
Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name:
Gulfstream IV-SP
Engine Type:
TAY 611-8C Transply-IIJ
Identification:
4
Category:
LCJP

Take Off weight:	28762.00 Kgs
Approach Weight:	26943.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 36-100
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	152
Annual Arrivals:	152
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Gulfstream V-SP
Engine Type:
BR700-710A1-10
Identification:
4
Category:
LGJB

Take Off weight:	34893.00 Kgs
Approach Weight:	30740.00 Kgs
Glide Slope:	3.00°
APU Assignment:	APU GTCP 36 (80HP)
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	44
Annual Arrivals:	44
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Israel IAI-1125 Astra
Engine Type:
TFE731-3
Identification:
4
Category:
SGJB

Take Off weight:	10659.00 Kgs
Approach Weight:	8450.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	140
Annual Arrivals:	140
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Lockheed C-130 Hercules
Engine Type:
T56-A-15
Identification:
3
Category:
LMTC

Take Off weight:	59874.00 Kgs
Approach Weight:	55111.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	25
Annual Arrivals:	25
Annual TGOs:	0
Taxi Out Time:	5.060000 min
Taxi In Time:	5.060000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Mitsubishi MU-300 Diamond
Engine Type:
JT15D-4 series
Identification:
4
Category:
SGJB

Take Off weight:	6396.00 Kgs
Approach Weight:	5396.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	937
Annual Arrivals:	937
Annual TGOs:	0
Taxi Out Time:	9.930000 min
Taxi In Time:	9.930000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Piper PA-30 Twin Comanche
Engine Type:
IO-320-D1AD
Identification:
2
Category:
SGPP

Take Off weight:	1633.00 Kgs
Approach Weight:	1633.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	36
Annual Arrivals:	36
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Piper PA-31 Navajo
Engine Type:
TIO-540-J2B2
Identification:
2
Category:
SGPB

Take Off weight:	2495.00 Kgs
Approach Weight:	2495.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	179
Annual Arrivals:	179
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Raytheon Beech Baron 58
Engine Type:
TIO-540-J2B2
Identification:
2
Category:
SGPB

Take Off weight:	2495.00 Kgs
Approach Weight:	2495.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	6803
Annual Arrivals:	6803
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Raytheon King Air 100
Engine Type:
PT6A-28
Identification:
2
Category:
SGTB

Take Off weight:	5670.00 Kgs
Approach Weight:	5021.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	1941
Annual Arrivals:	1941
Annual TGOs:	0
Taxi Out Time:	11.150000 min
Taxi In Time:	11.150000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Robinson R44 Raven
Engine Type:
TIO-540-J2B2
Identification:
0
Category:
SGPH

Take Off weight:	1069.00 Kgs
Approach Weight:	1089.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	969
Annual Arrivals:	969
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Rockwell OV-10 Bronco
Engine Type:
T76-G-12A
Identification:
3
Category:
SMTA

Take Off weight:	5577.00 Kgs
Approach Weight:	4376.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	371
Annual Arrivals:	371
Annual TGOs:	0
Taxi Out Time:	5.060000 min
Taxi In Time:	5.060000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Shorts 330
Engine Type:
PT6A-45R
Identification:
2
Category:
SCTP

Take Off weight:	9886.00 Kgs
Approach Weight:	9226.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	1229
Annual Arrivals:	1229
Annual TGOs:	0
Taxi Out Time:	11.160000 min
Taxi In Time:	11.160000 min

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Sikorsky UH-60 Black Hawk
Engine Type:
T700-GE-700
Identification:
0
Category:
SMTH

Take Off weight:	9185.00 Kgs
Approach Weight:	9185.00 Kgs
Glide Slope:	3.00°
APU Assignment:	None
APU Departure OP Time:	13.00 min
APU Arrival OP Time:	13.00 min
Gate Assignment:	None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year

Year:
2009

Annual Departures:	36
Annual Arrivals:	36
Annual TGOs:	0
Taxi Out Time:	Determined by Sequencing model
Taxi In Time:	Determined by Sequencing model

Departure Quarter-Hourly Operational profile:	DEFAULT
Departure Daily Operational Profile:	DEFAULT
Departure Monthly Operational Profile:	DEFAULT
Arrival Quarter-Hourly Operational profile:	DEFAULT
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

GSE Population

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Gasoline		Kaiser T2

Rated Power:	100.00 hp
Load Factor:	60.00%
The user has selected to use a specific age.	
Analysis Year:	2009
Year of Manufacture:	1978
Age:	31
Gate:	Percent

Year:
2009

Population:	1 units
Yearly Operating Time:	182.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Gasoline		Kaiser T3

Rated Power:	165.00 hp
Load Factor:	60.00%
The user has selected to use a specific age.	
Analysis Year:	2009
Year of Manufacture:	2000
Age:	9
Gate:	Percent

Year:
2009

Population:	1 units
Yearly Operating Time:	60.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Diesel		Kaiser T1

Rated Power:	60.00 hp
Load Factor:	60.00%
The user has selected to use a specific age.	
Analysis Year:	2009
Year of Manufacture:	2006
Age:	3
Gate:	Percent

Year:
2009

Population:	1 units
Yearly Operating Time:	206.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Electric		Kaiser Large Push

Rated Power:	0.00 hp
Load Factor:	60.00%
The user has selected to use a specific age.	
Analysis Year:	2009
Year of Manufacture:	1999
Age:	10
Gate:	Percent

Year:
2009

Population:	1 units
Yearly Operating Time:	60.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Electric		Kaiser Large Small