APPENDIX H
AIR QUALITY TECHNICAL DATA

This appendix contains the following data pertaining to the air quality analysis that was completed for the proposed replacement airport, as part of this Environmental Impact Statement (EIS). The Federal Aviation Administration (FAA)-approved Emissions and Dispersion Modeling System (EDMS), Version 4.4 was used to complete emissions calculations for airport sources; the Microsoft Excel spreadsheet program was used to calculate construction emissions.

The following Attachments are included in this Appendix:

Table H.1
LIST OF ATTACHMENTS

Attachments	Items
Attachment H-1: Documentation	Documentation of Existing and Projected Future Aircraft Operations and Construction Emissions Calculations
Attachment H-2: Emissions and Dispersion Modeling System (EDMS) Input and Output Files	2003 Existing St. George Municipal Airport 2010 Future Baseline St. George Municipal Airport 2010 Proposed Replacement Airport 2020 Future Baseline St. George Municipal Airport 2020 Proposed Replacement Airport

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ATTACHMENT H-1

DOCUMENTATION OF EXISTING AND PROJECTED FUTURE AIRCRAFT OPERATIONS AND CONSTRUCTION EMISSIONS CALCULATIONS

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Appendix H - Air Quality Technical Data and Reference Material
Attachment H-1

Data Package
St. George Replacement Airport

Air Quality Assessment

PROJECTED EMISSIONS ASSOCIATED WITH FORECAST AIRCRAFT FLEET AND OPERATIONS

Landrum & Brown
Since 1949

Fleet Mix Forecast

The following tables are reproduced from Tables E.5 and E.6 in Appendix E, Aviation Activity Forecasts

Line #	Table E.5	FLEET MIX FORECAST - CURRENT AIRPORT SCENARIO			2003 – Current Airport			2010 – Current Airport			2020 – Current Airport		
3	Type	Aircraft	Passenger Seats	Class	Departing Passenger Seats	Aircraft Ops	% of Total	Departing Passenger Seats	Aircraft Ops	% of Total	Departing Passenger Seats	Aircraft Ops	% of Total
4	Passenger	Embraer 120 Brasilia	30	Turbo Prop	90,840	6,056	13.90%	109,800	7,320	15.40%	148,650	9,910	18.40%
5		Canadair CRJ-200	50	Regional Jet	0	0	0.00%	0	0	0.00%	0	0	0.00%
6		Canadair CRJ-700	70	Regional Jet	0	0	0.00%	0	0	0.00%	0	0	0.00%
7		DeHavilland Dash 8-400	70	Turbo Prop	0	0	0.00%	0	0	0.00%	0	0	0.00%
8	All-Cargo	Metro II/Metro III	--	Turbo Prop	--	526	1.20%	--	624	1.30%	--	624	1.20%
9		Cessna 208 Caravan	--	Turbo Prop	--	526	1.20%	--	520	1.10%	--	520	1.00%
10		Chieftain/Navajo/Piper	--	Prop	--	1,052	2.40%	--	1,040	2.20%	--	1,040	1.90%
11	Non-Comm. Air Taxi	Citation/Lear 35/GIV/GV	--	Business Jet	--	1,095	2.50%	--	1,260	2.60%	--	1,360	2.50%
12	General Aviation	Single Engine	--	Prop	--	25,124	57.50%	--	27,515	57.80%	--	30,945	57.60%
13		Multi Engine	--	Prop	--	5,475	12.50%	--	5,475	11.50%	--	5,475	10.20%
14		Robinson R22	--	Helicopter	--	3,650	8.30%	--	3,650	7.70%	--	3,650	6.80%
15	Military	King Air/Lear/Helicopters	--	Mixed	--	210	0.50%	--	210	0.40%	--	210	0.40%
16				**TOTAL**	**90,840**	**43,714**	**100%**	**109,800**	**47,614**	**100%**	**148,650**	**53,734**	**100%**
17	Sources:	St. George Municipal Airport records; 2003 Terminal Area Forecasts (TAF), prepared by Federal Aviation Administration. Available at FAA website: http://api.hq.faa.gov/taf03/intro.htm.; Official Airline Guide (OAG); Landrum & Brown analysis, 2004.											

Line #	Table E.6	FLEET MIX FORECAST - PROPOSED REPLACEMENT AIRPORT SCENARIO			2003 – Current Airport			2010 – Proposed Replacement Airport			2020 – Proposed Replacement Airport		
22	Type	Aircraft	Passenger Seats	Class	Departing Passenger Seats	Aircraft Ops	% of Total	Departing Passenger Seats	Aircraft Ops	% of Total	Departing Passenger Seats	Aircraft Ops	% of Total
25	Passenger	Embraer 120 Brasilia	30	Turbo Prop	90,840	6,056	13.90%	46,260	3,084	6.50%	18,390	1,228	2.40%
26		Canadair CRJ-200	50	Regional Jet	0	0	0.00%	96,400	3,856	8.20%	92,000	3,680	7.20%
27		Canadair CRJ-700	70	Regional Jet	0	0	0.00%	0	0	0.00%	42,910	1,226	2.40%
28		DeHavilland Dash 8-400	70	Turbo Prop	0	0	0.00%	0	0	0.00%	42,910	1,226	2.40%
29	All-Cargo	Metro II/Metro III	--	Turbo Prop	--	526	1.20%	--	624	1.30%	--	624	1.20%
30		Cessna 208 Caravan	--	Turbo Prop	--	526	1.20%	--	520	1.10%	--	520	1.00%
31		Chieftain/Navajo/Pip	--	Prop	--	1,052	2.40%	--	1,040	2.20%	--	1,040	2.00%
32	Non-Comm. Air Taxi	Citation/Lear	--	Business Jet	--	1,095	2.50%	--	1,260	2.70%	--	1,360	2.70%

33	General Aviation	Single Engine	--	Prop	--	25,124	57.50%	--	27,515	58.30%	--	30,945	60.50%
34		Multi Engine	--	Prop	--	5,475	12.50%	--	5,475	11.60%	--	5,475	10.70%
35		Robinson R22	--	Helicopter	--	3,650	8.30%	--	3,650	7.70%	--	3,650	7.10%
36	Military	King Air/Lear/Helicopters	--	Mixed	--	210	0.50%	--	210	0.40%	--	210	0.40%
37				**TOTAL**	**90,840**	**43,714**	**100%**	**142,660**	**47,234**	**100%**	**196,210**	**51,184**	**100%**
38	Sources:	St. George Municipal Airport records; 2003 Terminal Area Forecasts (TAF), prepared by Federal Aviation Administration. Available at FAA website: http://api.hq.faa.gov/taf03/intro.htm.; Official Airline Guide (OAG); Landrum & Brown analysis, 2004.											

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Data from Tables E.5 and E.6, above was typed manually into EXCEL cells.

42

43				Number of Aircraft Operations				
44	**Aircraft Category**	**Aircraft Type**	**Engine Type**	**No-Action**			**Proposed Action**	
45				**2003**	**2010**	**2020**	**2010**	**2020**
46								
47	Commercial	Embraer 120 Brasillia	Turboprop	6,056	7,320	9,910	3,084	1,228
48		Canadair CRJ-200	Regional Jet	0	0	0	3,856	3,680
49		Canadair CRJ-700	Regional Jet	0	0	0	0	1,226
50		Dehavilland Dash 8-400	Turboprop	0	0	0	0	1,226
51	Cargo	Metro II	Turboprop	526	624	624	624	624
52		Metro III	Turboprop					
53		Cessna 208 Caravan	Turboprop	526	520	520	520	520
54		Chieftain	Piston	1,052	1,040	1,040	1,040	1,040
55		Navajo	Piston					
56		Piper	Piston					
57	Air Taxi (non-commercial)	Citation	Business Jet	1,095	1,260	1,360	1,260	1,360
58		Lear 35	Business Jet					
59		GIV	Business Jet					
60		GV	Business Jet					
61	General Aviation	Single Engine	Piston	25,124	27,515	30,945	27,515	30,945
62		Multi Engine	Piston	5,475	5,475	5,475	5,475	5,475

63	Aviation	Robinson R22	Piston	3,650	3,650	3,650	3,650	3,650
64	Military	King Air	Turboprop	210	210	210	210	210
65		Lear 35	Jet					
66		Helicopters	Turboprop					
67	**Total**			**43,714**	**47,614**	**53,734**	**47,234**	**51,184**
68								
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Line #	Aircraft Category	EDMS Aircraft Type	EDMS Engine Type	Number of Engines	Annual Aircraft Operations				
91									
92									
93									
94					2003	No-Action		Proposed Action	
95									
96						2010	2020	2010	2020
97	Commercial	EMB-120	PW118	2	6056	7320	9910	3084	1228
98		Canadair Reg-100	CF34-3B	2	0	0	0	3856	3680
99		Canadair Reg-700	CF34-8C1	2	0	0	0	0	1226
100		Dash 8-400	PW123	2	0	0	0	0	1226
101	Cargo	Swearingen Metro 2	TPE331-3	2	263	312	312	312	312
102		Jetstream 32	TPE331-12	2	263	312	312	312	312
103		Cessna 208 Caravan	PT6A-114	1	526	520	520	520	520
104		Navajo	TIO-540-J2B2	2	1052	1040	1040	1040	1040
105	Air Taxi (non-commercial)	CITATION II	JT15D-4 (B,C,D)	2	273.75	315	340	315	340
106		Learjet 35/36	TFE 731-2-2B	2	273.75	315	340	315	340
107		Gulfstream IV	TAY Mk611-8	2	273.75	315	340	315	340
108		Gulfstream V	BR700-710A1-10	2	273.75	315	340	315	340
109	General Aviation	Cessna 172 Skyhawk	O-320	1	25124	27515	30945	27515	30945
110		Aztec	TIO-540-J2B2	2	5475	5475	5475	5475	5475
111		Robinson R22	O-320	1	3650	3650	3650	3650	3650
112	Military	King Air 200	PT6A-41	2	70	70	70	70	70
113		C-21-A	TFE 731-2-2B	2	70	70	70	70	70
114		H-2 Super Seasprite	T700-GE-401 -401C	2	70	70	70	70	70
115					43714	47614	53734	47234	51184
116					43714	47614	53734	47234	51184
117					0	0	0	0	0
118					21857	23807	26867	23617	25592
119									
120				GA using AvGas	35301	37680	41110	37680	41110
121				turbo/jets JETA	8413	9934	12624	9554	10074
122					43714	47614	53734	47234	51184
123					0	0	0	0	0
124									
125									
126									
127									
128									
129									
130									
131									
132									
133									
134									

	Aircraft Category	EDMS Aircraft Type	EDMS Engine Type	Number of Engines	Annual LTOs Unrounded				
					2003	No-Action		Proposed Action	
						2010	2020	2010	2020
141	Commercial	EMB-120	PW118	2	3028.00	3660.00	4955.00	1542.00	614.00
142		Canadair Reg-100	CF34-3B	2	0.00	0.00	0.00	1928.00	1840.00
143		Canadair Reg-700	CF34-8C1	2	0.00	0.00	0.00	0.00	613.00
144		Dash 8-400	PW123	2	0.00	0.00	0.00	0.00	613.00
145	Cargo	Swearingen Metro 2	TPE331-3	2	131.50	156.00	156.00	156.00	156.00
146		Jetstream 32	TPE331-12	2	131.50	156.00	156.00	156.00	156.00
147		Cessna 208 Caravan	PT6A-114	1	263.00	260.00	260.00	260.00	260.00
148		Navajo	TIO-540-J2B2	2	526.00	520.00	520.00	520.00	520.00
149	Air Taxi (non-commercial)	CITATION II	JT15D-4 (B,C,D)	2	136.88	157.50	170.00	157.50	170.00
150		Learjet 35/36	TFE 731-2-2B	2	136.88	157.50	170.00	157.50	170.00
151		Gulfstream IV	TAY Mk611-8	2	136.88	157.50	170.00	157.50	170.00
152		Gulfstream V	BR700-710A1-10	2	136.88	157.50	170.00	157.50	170.00
153	General Aviation	Cessna 172 Skyhawk	O-320	1	12562.00	13757.50	15472.50	13757.50	15472.50
154		Aztec	TIO-540-J2B2	2	2737.50	2737.50	2737.50	2737.50	2737.50
155		Robinson R22	O-320	1	1825.00	1825.00	1825.00	1825.00	1825.00
156	Military	King Air 200	PT6A-41	2	35.00	35.00	35.00	35.00	35.00
157		C-21-A	TFE 731-2-2B	2	35.00	35.00	35.00	35.00	35.00
158		H-2 Super Seasprite	T700-GE-401 -401C	2	35.00	35.00	35.00	35.00	35.00
159	LTOs				21857.00	23807.00	26867.00	23617.00	25592.00
160	Ops				43714.00	47614.00	53734.00	47234.00	51184.00
161					0	0	0	0	0

	Aircraft Category	EDMS Aircraft Type	EDMS Engine Type	Number of Engines	Annual LTOs Rounded to nearest integer				
					2003	No-Action		Proposed Action	
						2010	2020	2010	2020
187	Commercial	EMB-120	PW118	2	3028.00	3660.00	4955.00	1542.00	614.00
188		Canadair Reg-100	CF34-3B	2	0.00	0.00	0.00	1928.00	1840.00
189		Canadair Reg-700	CF34-8C1	2	0.00	0.00	0.00	0.00	613.00
190		Dash 8-400	PW123	2	0.00	0.00	0.00	0.00	613.00
191	Cargo	Swearingen Metro 2	TPE331-3	2	132.00	156.00	156.00	156.00	156.00
192		Jetstream 32	TPE331-12	2	132.00	156.00	156.00	156.00	156.00
193		Cessna 208 Caravan	PT6A-114	1	263.00	260.00	260.00	260.00	260.00
194		Navajo	TIO-540-J2B2	2	526.00	520.00	520.00	520.00	520.00
195	Air Taxi (non-commercial)	CITATION II	JT15D-4 (B,C,D)	2	137.00	158.00	170.00	158.00	170.00
196		Learjet 35/36	TFE 731-2-2B	2	137.00	158.00	170.00	158.00	170.00
197		Gulfstream IV	TAY Mk611-8	2	137.00	158.00	170.00	158.00	170.00
198		Gulfstream V	BR700-710A1-10	2	137.00	158.00	170.00	158.00	170.00
199	General Aviation	Cessna 172 Skyhawk	O-320	1	12562.00	13758.00	15473.00	13758.00	15473.00
200		Aztec	TIO-540-J2B2	2	2738.00	2738.00	2738.00	2738.00	2738.00
201		Robinson R22	O-320	1	1825.00	1825.00	1825.00	1825.00	1825.00
202	Military	King Air 200	PT6A-41	2	35.00	35.00	35.00	35.00	35.00
203		C-21-A	TFE 731-2-2B	2	35.00	35.00	35.00	35.00	35.00
204		H-2 Super Seasprite	T700-GE-401 -401C	2	35.00	35.00	35.00	35.00	35.00
205					21859.00	23810.00	26868.00	23620.00	25593.00
206					2.00	3.00	1.00	3.00	1.00
207					43718.00	47620.00	53736.00	47240.00	51186.00
208					4.00	6.00	2.00	6.00	2.00

This data will be used in EDMS.

Aircraft Category	EDMS Aircraft Type	EDMS Engine Type	Number of Engines	Annual LTOs Adjusted				
				2003	No-Action		Proposed Action	
					2010	2020	2010	2020
Commercial	EMB-120	PW118	2	3028	3660	4955	1542	614
	Canadair Reg-100	CF34-3B	2	0	0	0	1928	1840
	Canadair Reg-700	CF34-8C1	2	0	0	0	0	613
	Dash 8-400	PW123	2	0	0	0	0	613
Cargo	Swearingen Metro 2	TPE331-3	2	132	156	156	156	156
	Jetstream 32	TPE331-12	2	132	156	156	156	156
	Cessna 208 Caravan	PT6A-114	1	263	260	260	260	260
	Navajo	TIO-540-J2B2	2	526	520	520	520	520
Air Taxi (non-commercial)	CITATION II	JT15D-4 (B,C,D)	2	135	155	169	155	169
	Learjet 35/36	TFE 731-2-2B	2	137	158	170	158	170
	Gulfstream IV	TAY Mk611-8	2	137	158	170	158	170
	Gulfstream V	BR700-710A1-10	2	137	158	170	158	170
General Aviation	Cessna 172 Skyhawk	O-320	1	12562	13758	15473	13758	15473
	Aztec	TIO-540-J2B2	2	2738	2738	2738	2738	2738
	Robinson R22	O-320	1	1825	1825	1825	1825	1825
Military	King Air 200	PT6A-41	2	35	35	35	35	35
	C-21-A	TFE 731-2-2B	2	35	35	35	35	35
	H-2 Super Seasprite	T700-GE-401 -401C	2	35	35	35	35	35
				21857	23807	26867	23617	25592
				21857	23807	26867	23617	25592
				0	0	0	0	0
				43714	47614	53734	47234	51184
				0	0	0	0	0

Appendix H - Air Quality Technical Data and Reference Material
Attachment H-1

Technical Data
St. George Municipal Airport

Air Quality Assessment

Projected Emissions Associated with Anticipated Construction Activities

	CO	HC	NOx	SOx	PM10
1/25/2005	581.31	83.11	315.65	37.69	33.78

Since 1949 Landrum&Brown

Document Table

Line #	Construction Project	Emissions by Pollutant (tons per year)					
273							
274							
275		**CO**	**HC**	**NOx**	**SOx**	**PM10**	
276	Access Roadway	2.26	0.34	1.47	0.16	0.14	
277	Airfield Lights	2.30	0.35	0.60	0.06	0.06	
278	ARFF	18.76	2.84	10.53	1.06	1.23	
279	ASOS Installation	1.24	0.18	0.23	0.02	0.02	
280	Cargo Hangar	8.35	1.32	4.90	0.46	0.57	
281	Cargo Ramp	5.63	0.62	2.96	0.46	0.32	
282	Cargo Parking Lot	7.53	1.15	4.91	0.54	0.46	
283	Electrical Conduit Installation	4.49	0.67	0.99	0.10	0.10	
284	Excavation	51.42	4.73	19.43	3.89	2.47	
285	Executive Hangar	22.78	3.61	13.38	1.25	1.55	
286	Executive Hangar Ramp	11.01	1.22	5.78	0.90	0.63	
287	Executive Parking Lot	7.75	1.18	5.05	0.56	0.47	
288	FBO Maint. Hangar	15.13	2.40	8.89	0.83	1.03	
289	FBO Ramp	21.30	2.35	11.19	1.75	1.21	
290	FBO Parking Lot	10.10	1.54	6.58	0.73	0.61	
291	Fuel Farm	14.09	2.06	9.23	1.07	0.91	
292	Helipad	27.83	4.01	17.39	2.04	1.72	
293	Maintenance Facility	24.91	3.77	13.89	1.39	1.63	
294	Large Hangar	16.44	2.61	9.65	0.90	1.12	
295	Large Hangar Ramp	8.98	0.99	4.72	0.74	0.51	
296	Large Hangar Parking Lot	12.95	1.98	8.44	0.93	0.79	
297	Mark Runway	0.36	1.29	0.11	0.01	0.01	
298	RSA	32.93	4.59	6.03	0.81	0.67	
299	Runway Construction	76.79	11.39	46.58	5.48	4.56	
300	Runway Drains	5.58	0.79	1.76	0.21	0.18	
301	Runway Surfacing	4.91	0.67	2.75	0.34	0.27	
302	Taxiways	46.07	6.83	27.95	3.29	2.73	
303	Site Preparation	4.71	0.90	3.89	0.44	0.43	
304	Terminal Building	62.28	9.88	36.57	3.40	4.24	
305	Terminal Parking Lot	15.46	2.36	10.08	1.11	0.94	
306	Terminal Apron	16.32	1.80	8.57	1.34	0.93	
307	T-Hangar	10.17	1.61	5.97	0.56	0.69	
308	T-Hangar Ramp	12.72	1.40	6.63	1.04	0.72	
309	**Total**	**581.31**	**83.11**	**315.65**	**37.69**	**33.78**	1051.53
310							
311							
312							
313							

Line #	**Construction Emissions Inventory - Emissions Factors**									
314										
315										
316	Equipment Type	Avg HP	Load Factor	Usage	Emissions Factors (g/hp-hr)					Manufacturer Equivalent
317					CO	HC	NOx	SOx	PM10	
318	Air Compressor	37	0.48	100%	5.00	1.20	8.00	0.93	1.00	
319	Aerial Lift w/Truck	360	0.56	100%	13.75	2.00	2.43	1.00	0.25	
320	Asphalt Paver	77	0.56	100%	3.20	0.60	10.30	0.93	0.90	
321	Backhoe	71	0.38	100%	6.80	1.40	10.10	0.85	1.05	
322	Bore/Drill Rigs	209	0.75	100%	9.20	1.41	11.01	0.93	1.44	
323	Bulldozer	356	0.59	100%	2.80	0.84	9.60	0.93	0.66	
324	Cement/Mortar mixers	11	0.56	100%	4.60	1.01	11.01	0.93	0.90	
325	Chain Saw <4 HP	6.4	0.50	100%	974.70	319.20	0.96	0.37	12.96	
326	Chipper, Stump Grinder	99	0.37	100%	5.00	1.20	8.00	0.93	1.00	
327	Compactor	8	0.43	100%	3.10	0.80	9.30	0.93	0.90	
328	Concrete Pavers	77	0.56	100%	4.57	1.10	10.02	0.93	0.90	
329	Cold Planer	625	0.56	100%	2.80	0.84	9.60	0.89	0.80	CAT PM-565B high-volume cold Planer (see CAT handbook page 17-4 & 17-2)
330	Cranes	194	0.43	100%	4.20	1.26	10.30	0.93	1.44	
331	Crushing/Processing Equipment	127	0.78	100%	9.20	1.41	11.01	0.93	1.44	
332	Dozers, Rubber-Tired	356	0.59	100%	2.8	0.84	9.6	0.93	0.66	
333	Drill rigs	209	0.75	100%	9.2	1.41	11.01	0.93	1.44	
334	Dumper	23	0.38	100%	2.80	0.84	9.60	0.89	1.44	
335	Dump Truck	500	0.55682	100%	15.50	1.30	4.00	1.00	0.600	Mack CL700 Series
336	Excavator (small)	143	0.59000	100%	5.20	0.07	10.75	0.93	1.440	
337	Excavator (large)	1470	0.56	100%	2.80	0.84	9.60	1.00	0.80	
338	Feller Buncher	183	0.71	100%	5.20	0.84	11.30	0.93	1.44	
339	Forklift, Rough Terrain	84	0.35	100%	10.00	1.68	8.00	0.93	1.60	
340	Generator <50 HP	22	0.74	100%	5.00	1.20	8.00	0.93	1.00	
341	Grader	147	0.54	100%	3.80	1.54	9.60	0.87	1.00	
342	Hydro power unit	35	0.48	100%	3.78	2.23	7.78	0.92	1.51	
343	Loader, Rubber-tired	175	0.54	100%	4.80	0.84	10.30	0.86	1.29	
344	Loader	71	0.38	1	6.8	1.4	10.1	0.85	1.05	
345	Loaders, Skid steer	44	0.48	100%	9.00	2.10	9.60	0.93	1.44	
346	Mixers, Cement/Mortar	11	0.56	1	4.6	1.01	11.01	0.93	0.9	
347	Off-highway tractors	214	0.65	100%	14.68	2.46	11.91	0.93	2.03	
348	Off-Highway Trucks	658	0.25	100%	2.80	0.84	9.60	0.89	0.80	
349	Other Construction Equipment	161	0.62	100%	9.20	1.41	11.01	0.93	1.44	
350	Paver, Asphalt	77	0.56	1	3.2	0.6	10.3	0.93	0.9	
351	Paver, concrete	77	0.56	1	4.57	1.1	10.02	0.93	0.9	
352	Paving Equipment	99	0.53	100%	4.60	1.01	11.01	0.93	0.90	
353	Pickup Truck	325	0.55682	100%	55.00	8.00	9.70	1.00	1.00	Ford F250 SD XL Regular
354	Processing Equipment	127	0.78	1	9.2	1.41	11.01	0.93	1.44	
355	Pump <50 HP	23	0.74	100%	5.00	1.20	8.00	0.93	1.00	
356	Roller	99	0.59	100%	3.10	0.80	9.30	1.00	0.78	
357	Saws, Concrete/Industrial	56	0.73	100%	9.20	1.41	11.01	0.93	1.44	
358	Scrapers	290	0.60	100%	5.00	0.70	8.70	0.90	1.26	
359	Scrubbers	97	0.68	100%	6.06	1.57	14.00	0.93	1.60	
360	Signal boards	6	0.82	100%	5.00	1.20	8.00	0.93	1.00	
361	Sweepers	97	0.68	1	6.06	1.57	14	0.93	1.6	

362	Tractor, Crawler	134	0.57	100%	4.80	1.26	10.30	0.85	1.11	
363	Tractors	71	0.38	1	6.8	1.4	10.1	0.85	1.05	
364	Tractor, off-highway	214	0.65	100%	14.68	2.46	11.91	0.93	2.03	
365	Trencher	27	0.64	100%	9.14	1.54	10.02	0.93	1.44	
366	Triaxle	600	0.55682	100%	15.50	1.30	4.00	1.00	0.60	Kenworth C500 Triaxle 16L 150,000 lbs
367	Trucks, off-highway	658	0.25	1	2.8	0.84	9.6	0.89	0.8	
368	Water Truck	325	0.556818182	1	55	8	9.7	1	1	Ford F250 SD XL Regular Cab 6.01L V8 Diesel - 325 HP
369	Welder	35	0.45	100%	5.00	1.20	8.00	0.93	1.00	
370			0.5568182	Average NEVES LF						
371					6.08	1.23	9.98	0.92	1.16	
372	Sources and references:									
373	USEPA, Nonroad Engine and Vehicle Emission Study-Report (NEVES) Inventory B: Table 2-04, Table 2-05, and Table 2-07a, Office of Air and Radiation 21A-2001, November 1991 (PB 92126960).									
374	Ford Motor Company, data available on the Worldwide Web at www.ford.com.									
375	Kenworth Trucks, data available on the Worldwide Web at www.kenworth.com									
376	Mack Trucks, data available on the Worldwide Web at www.macktrucks.com, a sales engineering publication, 6/24/04									
377	Caterpillar, data available on the Worldwide Web at www.cat.com. Caterpillar Performance Handbook Ed. 30, October 1999, Caterpillar Inc., Peoria, IL									
378	EPA 40 CFR 86.099-11 (a)(1)-(4); for dump truck and triaxle truck									
379	EPA 40 CFR 86.099-9 (a)(1)-(a)(1)(ii)(2), as given in 40 CFR Part 86.097-9 (a)(1)(i)(A) Tble A97-2 Diesel 3751-5750 pounds; for pickup truck and water truck									
380	Data provided in the NEVES Table 2-04 *Inventory A and B Average Horsepower Estimates* and Table 2-05 I*nventory A and B Typical Operating Load Factors* , showed "Inventory A " data and "Inventory B" data, where Inventory A data was developed by USEPA contractors and Inventory B data was obtained from manufacturer associations (Sec. 2.7 NEVES). The table of data presented here utilized Inventory B data. Although separate horsepower and load factor data was provided in Tables 2-04 and 2-05 for Inventory A and B, only one set of emissions' factors was provided in Table 2-07 *Emissions Factors for Inventories A and B* .									
381	**Note: MANUFACTURER EQUIVALENT** - Equipment identified as representative in the Caterpillar, Mack, Kenworth, or Ford lines of equipment. Where a more specific manufacturer equivalent is provided, the horsepower value would be for that unique unit.									
382										
383										
384										
385										

Line #	Acronyms and Conversions				
386					
387	BCY	bank cubic yards			
388	CY	cubic yards			
389	min	minutes			
390	sec	seconds			
391	cycle time	time to cut into and pick up a bucket of soil, swing out the loaded bucket, dump the load, swing back the empty bucket, and realign the excavator to prepare for the next cut.			
392	hrs	hours			
393	LF	load factor			
394	m3	cubic meters			
395	HP	horsepower			
396	LCY	loose cubic yards			
397	SGU	St. George Municipal Airport			
398	FBO	fixed base operator			
399					
400					
401	**Conversion**				
402					
403	1kg=	1000		grams	per Conversion Buddy V.4.1.3, James E. Presley, 1997
404	1 short ton=	907.185		kg	
405					
406	1 m3 =	1.31		CY	per Conversion Buddy V.4.1.3, James E. Presley, 1997
407	1 short ton=		2000	lbs	
408					
409					
410					
411					
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426					
427					
428					

Line #	Description	Assumptions and Calculations	References/Sources
429			
430	***Excavation***		
431		Soil to be disturbed 650,000.00 BCY	Landrum & Brown
432			
433		Excavator model Catepillar CAT 5230 ME	Landrum & Brown
434		CAT 5230 ME front shovel excavator 15.5 m3 = 20.27 BCY	Caterpillar Performance Manual Page 5-170, Table *Cycle Time Estimating*, Consultant judgment
435		Excavator load factor 100% worst-case assumption	Landrum & Brown
436			
437		Excavator operation cycle time, assuming soil is hard clay so that cycle time is:	Caterpillar Manual Pg. 5-170
438		0.12 min 7.2 sec Load	Caterpillar Manual Pg. 5-170
439		0.14 min 8.4 sec Swing out loaded	Caterpillar Manual Pg. 5-170
440		0.04 min 2.4 sec Dump	Caterpillar Manual Pg. 5-170
441		0.14 min 8.4 sec Swing back empty	Caterpillar Manual Pg. 5-170
442		1.00 min 60 sec Re-align equipment	Landrum & Brown
443		1.44 min 86.4 sec Total cycle time	Calculation
444			
445		Assume 27% swell of clay	Means Handbook, Page 49, Fig. 7.1
446		Dump truck model MACK CL7000	MACK, Consultant judgment
447		Dump truck capacity 40 LCY	Landrum & Brown
448		Dump truck load factor 100% worst-case assumption	Landrum & Brown
449			
450			
451			
452			
453			
454		Dump truck load and dump cycle:	
455		Load: 1.00 min 60 sec Align the truck with the excavator	Landrum & Brown
456		Load: 1.554 Excavator loads per truck, assuming 27% swell	Calculation
457		Load: 1.44 min 86.4 sec Per each excavator load cycle	Calculation
458		Load: 3.24 min 194.2241217 sec Total to load	Calculaion
459			
460		Empty: 1.00 min 60 sec Align the truck with the dump site	Landrum & Brown
461		Empty: 2.00 min 120 sec Empty the contents of the truck	Means Handbook, Pg. 366, Fig. A.16
462		3.00 min 180 sec Total to dump	Calculation
463			

464			6.24 min	374.2241217 sec		Total time		Calculation
465				0.10		Total hrs		Calculation
466								
467		Dump truck hauling max			10	Miles round trip		Landrum & Brown
468		Dump truck speed during hauling			25	Miles per hour		Landrum & Brown
469								
470	***Construction Phasing+B88***							
471		900	days	1	month			Table 1.1 SGU DEIS
472		8	hrs operation per day	22	days per month			Landrum & Brown
473		7200	Total hours	8	hours per day			Calculation
474								
475		*ASOS*						
476		1	months					Landrum & Brown
477		7	days per month					Landrum & Brown
478		8	hrs operation per day					Landrum & Brown
479		56	Total hours					Calculation
480								
481								
482		*Access Roadway*						
483		1	months					Landrum & Brown
484		15	days per month					Landrum & Brown
485		8	hrs operation per day					Landrum & Brown
486		120	Total hours					Calculation
487								
488		*Site Preparation*						
489		2	months					Landrum & Brown
490		25	days per month					Landrum & Brown
491		8	hrs operation per day					Landrum & Brown
492		400	Total hours					Calculation
493								
494		*Drains, Runway Surfacing, Airfield Lights, Elec. Conduit, Fuel Farm*						
495		1	months	each job				Landrum & Brown
496		25	days per month					Landrum & Brown
497		8	hrs operation per day					Landrum & Brown
498		200	Total hours					Calculation
499								
500		*RSA*						
501		6	months					Landrum & Brown
502		25	days per month					Landrum & Brown
503		8	hrs operation per day					Landrum & Brown
504		1200	Total hours					Calculation
505								
506		**Building**	**Sq. Footage**	**Months of Construction**	**Calcs of Hrs**	**Hrs. Entered**	**Check**	Landrum & Brown
507		Executive Hangar	177640	3.1	546	546	0	Landrum & Brown
508		"Large" Hangar	128200	2.2	394	394	0	Landrum & Brown
509		FBO Hangar	118020	2.1	363	363	0	Landrum & Brown
510		T-Hangar	79340	1.4	244	244	0	Landrum & Brown
511		Cargo	32550	1.1	200	200	0	Landrum & Brown
512		Terminal	22780	8.5	1492	1492	0	Landrum & Brown
513		Maint Facility	8145	3.0	533	533	0	Landrum & Brown
514		ARFF	6107	2.3	400	400	0	Landrum & Brown
515								
516		**Parking Lot**	**Sq. Footage**	**Months of Construction**	**Calcs of Hrs**	**Hrs. Entered**	**Check**	
517		Terminal	410800	5	822	822	0	Landrum & Brown
518		Maintenance (Large) Ha	344100	4	688	688	0	Landrum & Brown

519	FBO	268300	3	537	537	0		Landrum & Brown
520	Executive	205890	2	412	412	0		Landrum & Brown
521	Cargo	200000	2	400	400	0		Landrum & Brown
522						0		
523	**Apron Areas**	**Sq. Footage**	**Months of Construction**	**Calcs of Hrs**	**Hrs. Entered**	**Check**		
524	FBO Ramp	438,500	15	2612	2,612.5	0		Landrum & Brown
525	Terminal Ramp	335,800	11	2001	2,001	0		Landrum & Brown
526	T-Hangar Ramp	262,330	9	1563	1,562.9	0		Landrum & Brown
527	Executive Ramp	226,700	8	1351	1,351	0		Landrum & Brown
528	Large Hangar Ramp	184,890	6	1102	1,102	0		Landrum & Brown
529	Cargo Ramp	115,900	4	690	690.5	0		Landrum & Brown
530	Helipad	67,140	2	400	400	0		Landrum & Brown
531								
532	**Surfaces**	**Sq. Footage**	**Months of Construction**	**Calcs of Hrs**	**Hrs. Entered**	**Check**		
533	Runway	1395000	10	1760				
534	9300	150						
535	Taxiways	697500	6	1056				
536	9300	75						
537								
538	***On-Road Motor Vehicles***							
539	Calculations used for emissions from the Ford F250 Truck							
540	assume	10 mi/hr	average over the day					Landrum & Brown
541		325 HP						Ford Motor Company
542	Emissions factors in grams per mile							EPA 40 CFR 86.097-9 (a)(1)(i)(A) Table A97-2 Diesel 3751-5750 pounds
543	CO	THC	NOx	SOx	PM10			
544	5.5	0.8	0.97	1	0.1			40 CFR 86.097-9
545								
546	Conversion to g/hr							
547	CO	THC	NOx	SOx	PM10			
548	55.0	8.0	9.7	1.0	1.0			Calculation
549								
550								
551	***Truck used with attached tool***							
552	Calculations used for emissions from the Ford F250 Truck							
553	assume	2.5 mi/hr	idle					Landrum & Brown
554		325 HP						Ford Motor Company
555	Emissions factors in grams per mile							EPA 40 CFR 86.097-9 (a)(1)(i)(A) Table A97-2 Diesel 3751-5750 pounds
556	CO	THC	NOx	SOx	PM10			
557	5.5	0.8	0.97	1	0.1			40 CFR 86.097-9
558								
559	Conversion to g/hr							
560	CO	THC	NOx	SOx	PM10			
561	13.8	2.0	2.4	1.0	0.3			Calculation
562								
563	***Emissions Factors***							
564	Non-controlled (not using tiered emissions factors as given in 40 CFR Part 89)							NEVES, Table 2-04, 2-05,
565								
566								
567								
568								
569	***Specific Construction Equipment***							

570	Types of construction equipment, HP, LF, and emissions factors used as given in NEVES Table 2-04, 2-05, and 2-07a, unless as given b		Landrum & Brown
571	*Asphalt paver*	Assume SO_x value is 0.93 g/hp-hr, not printed clearly	NEVES, Table 2-07a
572	*Backhoes*	See NEVES "Tractors/Loaders/Backhoes"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
573	*Bulldozer*	See NEVES "Rubber Tired Dozers"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
574	*Cold planer*	Not in NEVES database. Assumed the CAT PM-565B high-volume cold planer with 625 HP; assumed average NEVES LF; assumed emissions factors of largest NEVES HP equipment: off-highway truck.	Caterpillar Performance Handbook Ed. 30 pg. 17-2; NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
575	*Compactor*	See NEVES "Plate Compactor"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
576	*Dozer, Rubber-Tired*	See also Bulldozer in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
577	*Drill rigs*	See also Bore Drill Rigs in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
578	*Dumper*	See NEVES "Dumpers/Trenchers"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
579	*Dump truck*	For a more accurate accounting of emissions from the use of dump trucks, assumed the MACK CL703 Series, with the Cummins ISX 500 engine; peak 500 HP, assumed diesel, assumed 40 LCY capacity box, assumed a heavy duty diesel engine as given in 40 CFR Part 86 for CO, HC, NO_x, and PM_{10} in g/bHP-hr; assumed 1999 or later model year; assumed NEVES average LF; assumed largest reported NEVES emissions factor for SO_x, which is 1.00 g/hp-hr.	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B; 40 CFR Part 86.099-11 (a)(1)(I), (2), (3), and (4); www.macktrucks.com.
580	*Excavator (small)*	See NEVES "Excavator"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
581	*Excavator (large)*	Not in the NEVES list. Assumed a CAT 5230 ME, with 1470 HP, assumed 20.3 BCY bucket (CAT manual states 15.5m3 bucket); assumed average NEVES LF; assumed highest reported NEVES SO_x emission factor of 1.00 g/hp-hr; assumed emissions factors of largest NEVES HP equipment: off-highway truck	Caterpillar Performance Handbook Ed. 30, Page 5-161 and 5-170; NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B.
582	*Forklift rough terrain*	See NEVES "Rough Terrain Forklift"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
583	*Generator <50 HP*	See NEVES Class 5, "Generator Set <50 HP"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
584	*Hydro power unit*	See NEVES Class 8	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
585	*Loader, rubber-tired*	See NEVES "Rubber Tired Loaders"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
586	*Loader*	See NEVES "Tractors/Loaders/Backhoes"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B

587	*Loader, skid steer*	See NEVES "Skid Steer Loader"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
588	*Mixers, cement/ mortar*	See also Cement mortar/mixers in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
589	*Off-highway truck*	Assume PM_{10} value is 0.80 g/hp-hr, not printed clearly	NEVES, Table 2-07a
590	*Paver, asphalt*	See also Asphalt paver in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
591	*Paver, concrete*	See also Concrete paver in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
592	*Pickup truck*	For a more accurate accounting of emissions from the use of on-road pickup trucks, assumed the Ford F-250 SD 325 HP; assumed a light-duty diesel engine as given in 40 CFR Part 86.097-9 Table A97-2 (40 CFR Part 86.099-9) for CO, HC, NO_x, and PM_{10} in g/mi; assumed 1997 or later model year of 3751-5750 pounds; assumed speed 30 miles per hour; assumed NEVES average LF; assumed largest reported NEVES emissions factor for SO_x, which is 1.00 g/hp-hr.	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B; 40 CFR Part 86.099-9 (a)(1)-(a)(1)(ii)(2), as given in 40 CFR Part 86.097-9; www.ford.com.
593	*Processing equipment*	See NEVES "Crushing and Processing Equipment"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
594	*Pump <50 HP*	See NEVES Class 5	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
595	*Saws, concrete/ industrial*	See NEVES "Concrete/Industrial Saws"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
596	*Scrubbers*	See NEVES Class 6 "Sweepers/Scrubbers"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
597	*Sweepers/ scrubbers*	See also Scrubbers in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
598	*Tractor, crawler*	See NEVES "Crawler Tractors"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
599	*Tractor*	See NEVES "Tractors/Loaders/Backhoes"	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B
600	*Tractor, off-highway*	See also Off-highway tractors in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes

601	*Triaxle*	For a more accurate accounting of emissions from the use of triaxle trucks, assumed the Kenworth C500, 16L diesel engine, 150,000 pounds; 600 HP; assumed a heavy duty diesel engine as given in 40 CFR Part 86.099-11 for CO, HC, NO_x, and PM_{10} in g/bHP-hr; assumed 1999 or later model year; assumed NEVES average LF; assumed largest reported NEVES emissions factor for SO_x, which is 1.00 g/hp-hr.	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B; 40 CFR Part 86.099-11 (a)(1)(I), (2), (3), and (4); www.kenworth.com.
602	*Truck, off-highway*	See also Off-highway trucks in *Construction Emissions Inventory - Emissions Factors*	Clarification purposes
603	*Water truck*	See Pickup truck in *Construction Emissions Inventory Emissions Factors*	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B; 40 CFR Part 86.099-9 (a)(1)-(a)(1)(ii)(2), as given in 40 CFR Part 86.097-9; www.ford.com.
604	*Welder*	See NEVES Class 5	NEVES, Table 2-04, 2-05, and 2-07a, Diesel, Inv. B

605												
606	Average Driving Distance to the Existing Airport											
607												
608				Route Segments (inches on map)				TOTAL inche	1 inch = 232	distance fe	distance miles	
609	Downtown	3						3	2325	6975	1.32	
610	Central SGU	2	3.5	3				8.5	2325	19762.5	3.74	
611	South SGU	4.5	3.5	3				11	2325	25575	4.84	
612	NW SGU	6						6	2325	13950	2.64	
613	SW SGU	2	4	3				9	2325	20925	3.96	
614	Wash City N	7.5	6					13.5	2325	31387.5	5.94	
615	Wash City S	5.5	2	3.5	3			14	2325	32550	6.16	
616	Hurricane City	11.5	2.5	5.5	2	3.5	3	28	2325	65100	12.33	
617											5.12	
618												
619												
620	Average Driving Distance to the Proposed Replacement Airport											
621												
622				Route Segments (inches on map)				TOTAL inche	1 inch = 2	distance feet	distance miles	
623	Downtown	1	6.5	6.5	6	5		2	27	2325	62775	11.89
624	Central SGU	5.5	2.5	3.5	7.5			2	21	2325	48825	9.25
625	South SGU	2.5	6	5				2	13.5	2325	31387.5	5.94
626	NW SGU	8.5	3	6.5	6.5	6	5	2	37.5	2325	87187.5	16.51
627	SW SGU	2	6.5	6	5			2	21.5	2325	49987.5	9.47
628	Wash City N	8	2.5	3.5	7.5			2	23.5	2325	54637.5	10.35
629	Wash City S	2.5	3.5	7.5				2	13.5	2325	31387.5	5.94
630	Hurricane City	11.5	3.5	7.5				2	22.5	2325	52312.5	9.91
631												9.91
632												
633												
634												
635												
636												
637												
638												

Line #	**Excavation Calucations**		
639	**Calculation Descriptions**		**Calculations**
640	**Operating hours for the excavator**		
641	Volume of soil to be disturbed		650,000 BCY
642	Excavator capacity		20.27 BCY
643	Load factor		100% LF
644	Cycle Time		1.44 min
645	Cycles required to move the soil		32060.77 cycles
646	Time required for one CAT 5230 ME to move the soil		46167.51 min
647	Hours required		**769.46** hrs
648			
649	**Operating hours for the dump trucks (load and unload only)**		
650	Volume of soil to be moved		825,500 LCY
651	Dump truck capacity		40 LCY
652	Load factor		100% LF
653	Cycle time (load and dump)		0.10 hrs
654	Cycles required to fill and then empty all the soil		20637.50 cycles
655	Time required for one MACK dump truck to fill and empty total soil		**2145.29** hrs
656			
657	**Operating hours for the dump trucks (hauling soil)**		
658	Hauling distance (round-trip)	10 miles	
659	Speed	25 miles per hour	
660	Haul time	0.4 hour	
661	Total haul time		**8255.00** hours
662			
663	**Sources and References:**		
664	Caterpillar Performance Handbook Ed. 30, Caterpillar Inc., Peoria, IL, October 1999.		
665	Means Heavy Construction Handbook, R.C. Ringwald, Construction Publishers & Consultants, Kingston, MA, 1993.		
666	Conversion Buddy V.4.1.3, James E. Presley, 1997.		
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Line #	Excavation										
670	**Equipment**	**Description**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
671							**CO**	**HC**	**NOx**	**SOx**	**PM10**
672	Dump Truck	Load and unload soil	2145.29	500	0.5568	100%	15.5	1.3	4.0	1.0	0.6
673	Dump Truck	Hauling soil	8255.00	500	0.5568	100%	15.5	1.3	4.0	1.0	0.6
674	Excavator (large)	Moving soil	769.46	1470	0.5568	100%	2.8	0.8	9.6	1.0	0.8
675											
676					**Equipment**		**Emissions** (1000 grams/year)				
677							**CO**	**HC**	**NOx**	**SOx**	**PM10**
678			Dump Truck		Load and unload soil		9,258	776	2,389	597	358
679			Dump Truck		Hauling soil		35,623	2,988	9,193	2,298	1,379
680			Excavator (large)		Moving soil		1,763	529	6,046	630	504
681			Total				46644	4293	17628	3525	2241
682					**Equipment**		**Emissions** (tons/year)				
683							**CO**	**HC**	**NOx**	**SOx**	**PM10**
684			Dump Truck		Load and unload soil		10.20	0.86	2.63	0.66	0.40
685			Dump Truck		Hauling soil		39.27	3.29	10.13	2.53	1.52
686			Excavator (large)		Moving soil		1.94	0.58	6.66	0.69	0.56
687			Total				**51.42**	**4.73**	**19.43**	**3.89**	**2.47**
688											
689		1000	used to convert grams to 1000's gram								
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Line #	Site Preparation										
705	**Equipment**	**Description**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
706							**CO**	**HC**	**NOx**	**SOx**	**PM10**
707	Bulldozer	Strip Topsoil	400	356	0.59	100%	2.80	0.84	9.60	0.93	0.66
708	Backhoe	Prep the Site	400	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
709	Compactor		400	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
710	Excavator (small)		400	143	0.59	100%	5.20	0.07	10.75	0.93	1.44
711	Generator <50 HP		400	22	0.74	100%	5.00	1.20	8.00	0.93	1.00
712	Grader		400	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
713	Loader		400	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
714	Off-Highway Trucks		400	658	0.25	100%	2.80	0.84	9.60	0.89	0.80
715	Backhoe		400	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
716	Chain Saw <4 HP		400	6.4	0.50	100%	974.70	319.20	0.96	0.37	12.96
717	Chipper, Stump Grinder		400	99	0.37	100%	5.00	1.20	8.00	0.93	1.00
718	Dump Truck		400	500	0.56	100%	15.50	1.30	4.00	1.00	0.60
719	Excavator (small)		400	143	0.59	100%	5.20	0.07	10.75	0.93	1.44
720	Loader		400	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
721											
722	1000	used to convert grams to 1000's gram									
723											
724											
725						**Equipment**	**Emissions** (1000 g/year)				
726							**CO**	**HC**	**NOx**	**SOx**	**PM10**
727						Bulldozer	235.24	70.57	806.55	78.13	55.45
728						Backhoe	73.39	15.11	109.00	9.17	11.33
729						Compactor	4.27	1.10	12.80	1.28	1.24
730						Excavator (small)	175.49	2.36	362.79	31.39	48.60
731						Generator <50 HP	32.56	7.81	52.10	6.06	6.51
732						Grader	120.66	48.90	304.82	27.62	31.75
733						Loader	73.39	15.11	109.00	9.17	11.33
734						Off-Highway Trucks	184.24	55.27	631.68	58.56	52.64
735						Backhoe	73.39	15.11	109.00	9.17	11.33
736						Chain Saw <4 HP	1247.62	408.58	1.23	0.47	16.59
737						Chipper, Stump Grinder	73.26	17.58	117.22	13.63	14.65
738						Dump Truck	1726.14	144.77	445.45	111.36	66.82
739						Excavator (small)	175.49	2.36	362.79	31.39	48.60
740						Loader	73.39	15.11	109.00	9.17	11.33
741						Total	4268.50	819.75	3533.42	396.58	388.17

	Emissions (tons/year)				
Equipment	**CO**	**HC**	**NOx**	**SOx**	**PM10**
Bulldozer	0.26	0.08	0.89	0.09	0.06
Backhoe	0.08	0.02	0.12	0.01	0.01
Compactor	0.00	0.00	0.01	0.00	0.00
Excavator (small)	0.19	0.00	0.40	0.03	0.05
Generator <50 HP	0.04	0.01	0.06	0.01	0.01
Grader	0.13	0.05	0.34	0.03	0.04
Loader	0.08	0.02	0.12	0.01	0.01
Off-Highway Trucks	0.20	0.06	0.70	0.06	0.06
Backhoe	0.08	0.02	0.12	0.01	0.01
Chain Saw <4 HP	1.38	0.45	0.00	0.00	0.02
Chipper, Stump Grinder	0.08	0.02	0.13	0.02	0.02
Dump Truck	1.90	0.16	0.49	0.12	0.07
Excavator (small)	0.19	0.00	0.40	0.03	0.05
Loader	0.08	0.02	0.12	0.01	0.01
Total	**4.71**	**0.90**	**3.89**	**0.44**	**0.43**

	Data				
Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
Backhoe	0.1618	0.0333	0.2403	0.0202	0.0250
Bulldozer	0.2593	0.0778	0.8891	0.0861	0.0611
Chain Saw <4 HP	1.3753	0.4504	0.0014	0.0005	0.0183
Chipper, Stump Grinder	0.0808	0.0194	0.1292	0.0150	0.0162
Compactor	0.0047	0.0012	0.0141	0.0014	0.0014
Dump Truck	1.9027	0.1596	0.4910	0.1228	0.0737
Excavator (small)	0.3869	0.0052	0.7998	0.0692	0.1071
Generator <50 HP	0.0359	0.0086	0.0574	0.0067	0.0072
Grader	0.1330	0.0539	0.3360	0.0305	0.0350
Loader	0.1618	0.0333	0.2403	0.0202	0.0250
Off-Highway Trucks	0.2031	0.0609	0.6963	0.0646	0.0580
Grand Total	4.7052	0.9036	3.8949	0.4372	0.4279

Line #	Access Roadway									
781	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
782						**CO**	**HC**	**NOx**	**SOx**	**PM10**
783	Asphalt Paver	120	77	0.56	100%	3.20	0.60	10.30	0.93	0.90
784	Bulldozer	120	356	0.59	100%	2.80	0.84	9.60	0.93	0.66
785	Cold Planer	120	625	0.56	100%	2.80	0.84	9.60	0.89	0.80
786	Compactor	120	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
787	Dump Truck	120	500	0.56	100%	15.50	1.30	4.00	1.00	0.60
788	Grader	120	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
789	Loader	120	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
790	Paving Equipment	120	99	0.53	100%	4.60	1.01	11.01	0.93	0.90
791	Roller	120	99	0.59	100%	3.10	0.80	9.30	1.00	0.78
792	Tractors	120	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
793	Water Truck	120	325	0.56	100%	55.00	8.00	9.70	1.00	1.00
794										
795	1000	used to convert grams to 1000's gram								
796										
797										
798							**Emissions** (1000 g/year)			
799					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
800					Asphalt Paver	16.56	3.10	53.30	4.81	4.66
801					Bulldozer	70.57	21.17	241.97	23.44	16.64
802					Cold Planer	116.93	35.08	400.91	37.17	33.41
803					Compactor	1.28	0.33	3.84	0.38	0.37
804					Dump Truck	517.84	43.43	133.64	33.41	20.05
805					Grader	36.20	14.67	91.45	8.29	9.53
806					Loader	22.02	4.53	32.70	2.75	3.40
807					Paving Equipment	28.96	6.36	69.32	5.86	5.67
808					Roller	21.73	5.61	65.19	7.01	5.47
809					Tractors	22.02	4.53	32.70	2.75	3.40
810					Water Truck	1194.38	173.73	210.64	21.72	21.72
811					Total	2048.48	312.55	1335.65	147.59	124.29
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	Equipment	CO	HC	NOx	SOx	PM10
819				Emissions (tons/year)		
820	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
821	Asphalt Paver	0.02	0.00	0.06	0.01	0.01
822	Bulldozer	0.08	0.02	0.27	0.03	0.02
823	Cold Planer	0.13	0.04	0.44	0.04	0.04
824	Compactor	0.00	0.00	0.00	0.00	0.00
825	Dump Truck	0.57	0.05	0.15	0.04	0.02
826	Grader	0.04	0.02	0.10	0.01	0.01
827	Loader	0.02	0.00	0.04	0.00	0.00
828	Paving Equipment	0.03	0.01	0.08	0.01	0.01
829	Roller	0.02	0.01	0.07	0.01	0.01
830	Tractors	0.02	0.00	0.04	0.00	0.00
831	Water Truck	1.32	0.19	0.23	0.02	0.02
832	Total	**2.26**	**0.34**	**1.47**	**0.16**	**0.14**

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834		Data				
835	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
836	Asphalt Paver	0.018252154	0.003422279	0.05874912	0.005304532	0.005133418
837	Bulldozer	0.077793879	0.023338164	0.26672187	0.025838681	0.018337129
838	Cold Planer	0.128895229	0.038668569	0.441926499	0.040970269	0.036827208
839	Compactor	0.001410605	0.000364027	0.004231816	0.000423182	0.000409531
840	Dump Truck	0.570821728	0.047875371	0.147308833	0.036827208	0.022096325
841	Grader	0.03990066	0.016170267	0.100801667	0.009135151	0.010500174
842	Loader	0.024268126	0.004996379	0.036045305	0.003033516	0.003747284
843	Paving Equipment	0.031926718	0.007009997	0.076415906	0.00645475	0.006246532
844	Roller	0.023951587	0.006181055	0.07185476	0.007726318	0.006026528
845	Tractors	0.024268126	0.004996379	0.036045305	0.003033516	0.003747284
846	Water Truck	1.316572695	0.191501483	0.232195548	0.023937685	0.023937685
847	Grand Total	2.258061506	0.344523968	1.472296628	0.162684808	0.137009098

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Line #	**Airfield Lights**									
856	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
857						**CO**	**HC**	**NOx**	**SOx**	**PM10**
858	Compactor	200	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
859	Grader	200	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
860	Trencher	200	27	0.64	100%	9.14	1.54	10.02	0.93	1.44
861	Water Truck	200	325	0.56	100%	55.00	8.00	9.70	1.00	1.00
862										
863						**Emissions** (1000 grams/year)				
864					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
865					Compactor	2.13	0.55	6.40	0.64	0.62
866					Grader	60.33	24.45	152.41	13.81	15.88
867					Trencher	31.59	5.32	34.63	3.21	4.98
868					Water Truck	1990.63	289.55	351.07	36.19	36.19
869					Total	2084.67	319.87	544.51	53.86	57.67
870										
871	1000	used to convert grams to 1000's gram								
872										
873										
874						**Emissions** (tons/year)				
875					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
876					Compactor	0.002	0.001	0.007	0.001	0.001
877					Grader	0.067	0.027	0.168	0.015	0.018
878					Trencher	0.035	0.006	0.038	0.004	0.005
879					Water Truck	2.194	0.319	0.387	0.040	0.040
880					Total	**2.30**	**0.35**	**0.60**	**0.06**	**0.06**
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Line #	**Executive Hangar Parking Lot**									
895	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
896						**CO**	**HC**	**NOx**	**SOx**	**PM10**
897	Asphalt Paver	412	77	0.56	100%	3.20	0.60	10.30	0.93	0.90
898	Bulldozer	412	356	0.59	100%	2.80	0.84	9.60	0.93	0.66
899	Cold Planer	412	625	0.56	100%	2.80	0.84	9.60	0.89	0.80
900	Compactor	412	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
901	Dump Truck	412	500	0.56	100%	15.50	1.30	4.00	1.00	0.60
902	Grader	412	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
903	Loader	412	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
904	Paving Equipment	412	99	0.53	100%	4.60	1.01	11.01	0.93	0.90
905	Roller	412	99	0.59	100%	3.10	0.80	9.30	1.00	0.78
906	Tractors	412	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
907	Water Truck	412	325	0.56	100%	55.00	8.00	9.70	1.00	1.00
908										
909	1000	used to convert grams to 1000's gram								
910										
911										
912								**Emissions** (1000 g/year)		
913					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
914					Asphalt Paver	56.82	10.65	182.89	16.51	15.98
915					Bulldozer	242.17	72.65	830.31	80.44	57.08
916					Cold Planer	401.25	120.38	1375.72	127.54	114.64
917					Compactor	4.39	1.13	13.17	1.32	1.27
918					Dump Truck	1776.97	149.04	458.57	114.64	68.79
919					Grader	124.21	50.34	313.80	28.44	32.69
920					Loader	75.55	15.55	112.21	9.44	11.67
921					Paving Equipment	99.39	21.82	237.88	20.09	19.45
922					Roller	74.56	19.24	223.68	24.05	18.76
923					Tractors	75.55	15.55	112.21	9.44	11.67
924					Water Truck	4098.50	596.15	722.83	74.52	74.52
925					Total	7029.36	1072.50	4583.27	506.44	426.51
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931				**Emissions** (tons/year)		
932	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
933	Asphalt Paver	0.06	0.01	0.20	0.02	0.02
934	Bulldozer	0.27	0.08	0.92	0.09	0.06
935	Cold Planer	0.44	0.13	1.52	0.14	0.13
936	Compactor	0.00	0.00	0.01	0.00	0.00
937	Dump Truck	1.96	0.16	0.51	0.13	0.08
938	Grader	0.14	0.06	0.35	0.03	0.04
939	Loader	0.08	0.02	0.12	0.01	0.01
940	Paving Equipment	0.11	0.02	0.26	0.02	0.02
941	Roller	0.08	0.02	0.25	0.03	0.02
942	Tractors	0.08	0.02	0.12	0.01	0.01
943	Water Truck	4.52	0.66	0.80	0.08	0.08
944	Total	**7.75**	**1.18**	**5.05**	**0.56**	**0.47**
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Line #	**Executive Hangar Apron**											
973	**Phase**	**Equipment**	**Operating Hours**	**New Hrs**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
974				226,700				**CO**	**HC**	**NOx**	**SOx**	**PM10**
975			Distribution of hours for representative project									
976	Prepare the Site	Backhoe	60.7	163.08	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
977	Prepare the Site	Bulldozer	175.5	471.56	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
978	Prepare the Site	Dump Truck	502.6	1350.61	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
979	Prepare the Site	Grader	23.2	62.32	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
980	Prepare the Site	Roller	23.2	62.32	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
981	Prepare the Site	Bulldozer	23.2	62.32	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
982	Prepare the Site	Grader	14.3	38.45	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
983	Prepare the Site	Water Truck	14.3	38.45	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
984	Prepare the Site	Tractors	14.3	38.45	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
985	Prepare the Site	Roller	14.3	38.45	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
986	Prepare the Site	Bulldozer	14.3	38.45	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
987	Prepare the Site	Loader, Rubber-tired	14.3	38.45	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
988	Prepare the Site	Dump Truck	43.4	116.68	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
989	Prepare the Site	Grader	18.8	50.38	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
990	Prepare the Site	Water Truck	18.8	50.38	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
991	Prepare the Site	Tractors	18.8	50.38	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
992	Prepare the Site	Roller	18.8	50.38	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
993	Prepare the Site	Bulldozer	18.8	50.38	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
994	Prepare the Site	Loader, Rubber-tired	18.8	50.38	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
995	Prepare the Site	Dump Truck	32.6	87.51	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
996	Prepare the Site	Grader	14.3	38.45	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
997	Prepare the Site	Roller	14.3	38.45	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
998	Prepare the Site	Bulldozer	14.3	38.45	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
999	Prepare the Site	Dump Truck	65.1	175.01	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1000	Prepare the Site	Grader	42.9	115.35	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1001	Drainage System	Backhoe	70.9	190.48	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1002	Drainage System	Bulldozer	48.2	129.49	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1003	Drainage System	Off-Highway Tru	131.6	353.56	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1004	Drainage System	Bulldozer	14.8	39.78	356	0.59	100%	2.8	0.8	9.6	0.9	0.7

1005	Drainage System	Compactor	14.8	39.78	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1006	Drainage System	Dump Truck	46.9	125.96	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1007	Drainage System	Backhoe	107.9	289.92	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1008	Pa vement Lighting	Trencher	25.2	67.62	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1009	Pa vement Lighting	Compactor	25.2	67.62	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1010	Concrete Paving	Tractors	8.3	22.39	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1011	Concrete Paving	Tractors	8.3	22.39	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1012	Concrete Paving	Off-Highway Tru	23.3	62.70	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1013	Concrete Paving	Asphalt Paver	23.3	62.70	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
1014	Concrete Paving	Pickup Truck	3.3	8.96	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1015	Concrete Paving	Generator <50 HP	3.3	8.96	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1016	Concrete Paving	Off-Highway Tru	3.3	8.96	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1017	Concrete Paving	Pickup Truck	3.3	8.96	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1018		1000	used to convert grams to 1000's gram									
1019												
1020												
1021								**Emissions** (1000 g/year)				
1022						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**	
1023						Backhoe	29.9	6.2	44.4	3.7	4.6	
1024						Bulldozer	277.3	83.2	950.9	92.1	65.4	
1025						Dump Truck	5828.3	488.8	1504.1	376.0	225.6	
1026						Grader	18.8	7.6	47.5	4.3	4.9	
1027						Roller	11.3	2.9	33.9	3.6	2.8	
1028						Bulldozer	36.6	11.0	125.7	12.2	8.6	
1029						Grader	11.6	4.7	29.3	2.7	3.1	
1030						Water Truck	382.7	55.7	67.5	7.0	7.0	
1031						Tractors	7.1	1.5	10.5	0.9	1.1	
1032						Roller	7.0	1.8	20.9	2.2	1.8	
1033						Bulldozer	22.6	6.8	77.5	7.5	5.3	
1034						Loader, Rubber-tired	17.4	3.1	37.4	3.1	4.7	
1035						Dump Truck	503.5	42.2	129.9	32.5	19.5	
1036						Grader	15.2	6.2	38.4	3.5	4.0	
1037						Water Truck	501.5	72.9	88.4	9.1	9.1	
1038						Tractors	9.2	1.9	13.7	1.2	1.4	
1039						Roller	9.1	2.4	27.4	2.9	2.3	
1040						Bulldozer	29.6	8.9	101.6	9.8	7.0	
1041						Loader, Rubber-tired	22.9	4.0	49.0	4.1	6.1	
1042						Dump Truck	377.6	31.7	97.5	24.4	14.6	
1043						Grader	11.6	4.7	29.3	2.7	3.1	
1044						Roller	7.0	1.8	20.9	2.2	1.8	
1045						Bulldozer	22.6	6.8	77.5	7.5	5.3	
1046						Dump Truck	755.2	63.3	194.9	48.7	29.2	
1047						Backhoe	34.8	14.1	87.9	8.0	9.2	

1048	Bulldozer	34.9	7.2	51.9	4.4	5.4
1049	Off-Highway Trucks	76.2	22.8	261.1	25.3	18.0
1050	Bulldozer	162.9	48.9	558.3	51.8	46.5
1051	Compactor	23.4	7.0	80.2	7.8	5.5
1052	Dump Truck	0.4	0.1	1.3	0.1	0.1
1053	Backhoe	543.5	45.6	140.3	35.1	21.0
1054	Trencher	53.2	11.0	79.0	6.6	8.2
1055	Compactor	10.7	1.8	11.7	1.1	1.7
1056	Tractors	0.7	0.2	2.2	0.2	0.2
1057	Tractors	4.1	0.8	6.1	0.5	0.6
1058	Off-Highway Trucks	4.1	0.8	6.1	0.5	0.6
1059	Asphalt Paver	28.9	8.7	99.0	9.2	8.3
1060	Pickup Truck	8.7	1.6	27.8	2.5	2.4
1061	Generator <50 HP	89.1	13.0	15.7	1.6	1.6
1062	Off-Highway Trucks	0.7	0.2	1.2	0.1	0.1
1063	Pickup Truck	4.1	1.2	14.1	1.3	1.2
1064						
1065				**Emissions** (tons/year)		
1066	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1067	Backhoe	0.0	0.0	0.0	0.0	0.0
1068	Bulldozer	0.3	0.1	1.0	0.1	0.1
1069	Dump Truck	6.4	0.5	1.7	0.4	0.2
1070	Grader	0.0	0.0	0.1	0.0	0.0
1071	Roller	0.0	0.0	0.0	0.0	0.0
1072	Bulldozer	0.0	0.0	0.1	0.0	0.0
1073	Grader	0.0	0.0	0.0	0.0	0.0
1074	Water Truck	0.4	0.1	0.1	0.0	0.0
1075	Tractors	0.0	0.0	0.0	0.0	0.0
1076	Roller	0.0	0.0	0.0	0.0	0.0
1077	Bulldozer	0.0	0.0	0.1	0.0	0.0
1078	Loader, Rubber-tired	0.0	0.0	0.0	0.0	0.0
1079	Dump Truck	0.6	0.0	0.1	0.0	0.0
1080	Grader	0.0	0.0	0.0	0.0	0.0
1081	Water Truck	0.6	0.1	0.1	0.0	0.0
1082	Tractors	0.0	0.0	0.0	0.0	0.0
1083	Roller	0.0	0.0	0.0	0.0	0.0
1084	Bulldozer	0.0	0.0	0.1	0.0	0.0
1085	Loader, Rubber-tired	0.0	0.0	0.1	0.0	0.0
1086	Dump Truck	0.4	0.0	0.1	0.0	0.0
1087	Grader	0.0	0.0	0.0	0.0	0.0
1088	Roller	0.0	0.0	0.0	0.0	0.0
1089	Bulldozer	0.0	0.0	0.1	0.0	0.0
1090	Dump Truck	0.8	0.1	0.2	0.1	0.0
1091	Backhoe	0.0	0.0	0.1	0.0	0.0

1092	Bulldozer	0.0	0.0	0.1	0.0	0.0
1093	Off-Highway Trucks	0.1	0.0	0.3	0.0	0.0
1094	Bulldozer	0.2	0.1	0.6	0.1	0.1
1095	Compactor	0.0	0.0	0.1	0.0	0.0
1096	Dump Truck	0.0	0.0	0.0	0.0	0.0
1097	Backhoe	0.6	0.1	0.2	0.0	0.0
1098	Trencher	0.1	0.0	0.1	0.0	0.0
1099	Compactor	0.0	0.0	0.0	0.0	0.0
1100	Tractors	0.0	0.0	0.0	0.0	0.0
1101	Tractors	0.0	0.0	0.0	0.0	0.0
1102	Off-Highway Trucks	0.0	0.0	0.0	0.0	0.0
1103	Asphalt Paver	0.0	0.0	0.1	0.0	0.0
1104	Pickup Truck	0.0	0.0	0.0	0.0	0.0
1105	Generator <50 HP	0.1	0.0	0.0	0.0	0.0
1106	Off-Highway Trucks	0.0	0.0	0.0	0.0	0.0
1107		**11.0**	**1.2**	**5.8**	**0.9**	**0.6**

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1110		Data				
1111	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
1112	Asphalt Paver	0.03183	0.00955	0.10914	0.01012	0.00910
1113	Backhoe	0.67049	0.07259	0.30050	0.05156	0.03838
1114	Bulldozer	0.64665	0.19037	2.14224	0.20424	0.15827
1115	Compactor	0.03756	0.00972	0.10131	0.00976	0.00793
1116	Dump Truck	8.22890	0.69025	2.12487	0.53101	0.31866
1117	Generator <50 HP	0.09827	0.01429	0.01733	0.00179	0.00179
1118	Grader	0.06304	0.02555	0.15927	0.01443	0.01659
1119	Loader, Rubber-tired	0.04442	0.00777	0.09531	0.00796	0.01194
1120	Off-Highway Trucks	0.08928	0.02631	0.29583	0.02860	0.02065
1121	Pickup Truck	0.00954	0.00179	0.03070	0.00277	0.00268
1122	Roller	0.03784	0.00977	0.11353	0.01221	0.00952
1123	Tractors	0.02329	0.00484	0.03579	0.00305	0.00370
1124	Trencher	0.05863	0.01207	0.08709	0.00733	0.00905
1125	Water Truck	0.97462	0.14176	0.17189	0.01772	0.01772
1126	Grand Total	11.01437	1.21662	5.78481	0.90254	0.62598

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1128

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Line #	**Executive Hangar**										
1132	Description	Equipment	Operating Hours	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1133							**CO**	**HC**	**NOx**	**SOx**	**PM10**
1134	Trenching for cement footings	Compactor	546	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1135		Excavator (small)	546	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1136		Trencher	546	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1137	Trenching for utilities	Excavator (small)	546	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1138		Trencher	546	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1139	Erosion and Sedimentation Control	Loader, Rubber-tired	546	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1140		Tractors	546	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1141		Bulldozer	546	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1142	Driven Piles	Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1143		Drill rigs	546	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
1144		Air Compressor	546	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1145	Utilities	Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1146		Tractors	546	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1147	Concrete Forms	Cement/Mortar mixers	546	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1148		Loader, Rubber-tired	546	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1149	Reinforcing Steel	Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1150		Off-Highway Trucks	546	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1151	Structural Concrete	Cement/Mortar mixers	546	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1152		Loader, Rubber-tired	546	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1153		Compactor	546	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1154	Roof Deck	Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1155	Building Insulation	Pickup Truck	546	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1156		Air Compressor	546	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1157	Doors and Windows	Welder	546	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1158		Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1159		Pickup Truck	546	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0

1160	Industrial Doors/Overhead Doors	Cranes	546	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1161		Pickup Truck	546	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1162		Generator <50 HP	546	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1163		Welder	546	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1164											
1165		1000	used to convert grams to 1000's gram								
1166											
1167											
1168									**Emissions** (1000 g/year)		
1169						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1170				Trenching for cement footings		Compactor	5.82	1.50	17.46	1.75	1.69
1171						Excavator (small)	239.43	3.22	494.98	42.82	66.30
1172						Trencher	86.19	14.52	94.49	8.77	13.58
1173				Trenching for utilities		Excavator (small)	239.43	3.22	494.98	42.82	66.30
1174						Trencher	86.19	14.52	94.49	8.77	13.58
1175				Erosion and Sedimentation Control		Loader, Rubber-tired	247.55	43.32	531.20	44.35	66.53
1176						Tractors	100.12	20.61	148.71	12.52	15.46
1177						Bulldozer	320.96	96.29	1100.43	106.60	75.65
1178				Driven Piles		Cranes	191.21	57.36	468.92	42.34	65.56
1179						Drill rigs	787.02	120.62	941.86	79.56	123.19
1180						Air Compressor	48.46	11.63	77.54	9.01	9.69
1181				Utilities		Cranes	191.21	57.36	468.92	42.34	65.56
1182						Tractors	100.12	20.61	148.71	12.52	15.46
1183				Concrete Forms		Cement/Mortar mixers	15.46	3.40	37.01	3.13	3.03
1184						Loader, Rubber-tired	247.55	43.32	531.20	44.35	66.53
1185				Reinforcing Steel		Cranes	191.21	57.36	468.92	42.34	65.56
1186						Off-Highway Trucks	251.37	75.41	861.84	79.90	71.82
1187				Structural Concrete		Cement/Mortar mixers	15.46	3.40	37.01	3.13	3.03
1188						Loader, Rubber-tired	247.55	43.32	531.20	44.35	66.53
1189						Compactor	5.82	1.50	17.46	1.75	1.69
1190				Roof Deck		Cranes	191.21	57.36	468.92	42.34	65.56
1191				Building Insulation		Pickup Truck	5431.87	790.09	957.98	98.76	98.76
1192						Air Compressor	48.46	11.63	77.54	9.01	9.69
1193				Doors and Windows		Welder	42.98	10.31	68.76	7.99	8.60
1194						Cranes	191.21	57.36	468.92	42.34	65.56
1195						Pickup Truck	5431.87	790.09	957.98	98.76	98.76
1196				Industrial Doors/Overhead Doors		Cranes	191.21	57.36	468.92	42.34	65.56
1197						Pickup Truck	5431.87	790.09	957.98	98.76	98.76
1198						Generator <50 HP	44.42	10.66	71.08	8.26	8.88
1199						Welder	42.98	10.31	68.76	7.99	8.60
1200											

1201					**Emissions** (tons/year)		
1202		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1203	Trenching for cement footings	Compactor	0.01	0.00	0.02	0.00	0.00
1204		Excavator (small)	0.26	0.00	0.55	0.05	0.07
1205		Trencher	0.10	0.02	0.10	0.01	0.01
1206	Trenching for utilities	Excavator (small)	0.26	0.00	0.55	0.05	0.07
1207		Trencher	0.10	0.02	0.10	0.01	0.01
1208	Erosion and Sedimentation Control	Loader, Rubber-tired	0.27	0.05	0.59	0.05	0.07
1209		Tractors	0.11	0.02	0.16	0.01	0.02
1210		Bulldozer	0.35	0.11	1.21	0.12	0.08
1211	Driven Piles	Cranes	0.21	0.06	0.52	0.05	0.07
1212		Drill rigs	0.87	0.13	1.04	0.09	0.14
1213		Air Compressor	0.05	0.01	0.09	0.01	0.01
1214	Utilities	Cranes	0.21	0.06	0.52	0.05	0.07
1215		Tractors	0.11	0.02	0.16	0.01	0.02
1216	Concrete Forms	Cement/Mortar mixers	0.02	0.00	0.04	0.00	0.00
1217		Loader, Rubber-tired	0.27	0.05	0.59	0.05	0.07
1218	Reinforcing Steel	Cranes	0.21	0.06	0.52	0.05	0.07
1219		Off-Highway Trucks	0.28	0.08	0.95	0.09	0.08
1220	Structural Concrete	Cement/Mortar mixers	0.02	0.00	0.04	0.00	0.00
1221		Loader, Rubber-tired	0.27	0.05	0.59	0.05	0.07
1222		Compactor	0.01	0.00	0.02	0.00	0.00
1223	Roof Deck	Cranes	0.21	0.06	0.52	0.05	0.07
1224	Building Insulation	Pickup Truck	5.99	0.87	1.06	0.11	0.11
1225		Air Compressor	0.05	0.01	0.09	0.01	0.01
1226	Doors and Windows	Welder	0.05	0.01	0.08	0.01	0.01
1227		Cranes	0.21	0.06	0.52	0.05	0.07
1228		Pickup Truck	5.99	0.87	1.06	0.11	0.11
1229	Industrial Doors/Overhead Doors	Cranes	0.21	0.06	0.52	0.05	0.07
1230		Pickup Truck	5.99	0.87	1.06	0.11	0.11
1231		Generator <50 HP	0.05	0.01	0.08	0.01	0.01
1232		Welder	0.05	0.01	0.08	0.01	0.01
1233			**22.78**	**3.61**	**13.38**	**1.25**	**1.55**
1234							
1235							
1236							
1237							
1238							
1239							
1240							

	Data				
Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
Air Compressor	0.1068	0.0256	0.1709	0.0199	0.0214
Bulldozer	0.3538	0.1061	1.2130	0.1175	0.0834
Cement/Mortar mixers	0.0341	0.0075	0.0816	0.0069	0.0067
Compactor	0.0128	0.0033	0.0385	0.0038	0.0037
Cranes	1.2646	0.3794	3.1014	0.2800	0.4336
Drill rigs	0.8675	0.1330	1.0382	0.0877	0.1358
Excavator (small)	0.5279	0.0071	1.0912	0.0944	0.1462
Generator <50 HP	0.0490	0.0118	0.0783	0.0091	0.0098
Loader, Rubber-tired	0.8186	0.1433	1.7566	0.1467	0.2200
Off-Highway Trucks	0.2771	0.0831	0.9500	0.0881	0.0792
Pickup Truck	17.9628	2.6128	3.1680	0.3266	0.3266
Tractors	0.2207	0.0454	0.3279	0.0276	0.0341
Trencher	0.1900	0.0320	0.2083	0.0193	0.0299
Welder	0.0947	0.0227	0.1516	0.0176	0.0189
Grand Total	22.7806	3.6132	13.3757	1.2453	1.5492

Line #	**Large Hangar**										
1272	Description	Equipment	Operating Hours	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1273							**CO**	**HC**	**NOx**	**SOx**	**PM10**
1274	Trenching for cement footings	Compactor	394	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1275		Excavator (small)	394	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1276		Trencher	394	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1277	Trenching for utilities	Excavator (small)	394	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1278		Trencher	394	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1279	Erosion and Sedimentation Control	Loader, Rubber-tired	394	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1280		Tractors	394	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1281		Bulldozer	394	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1282	Driven Piles	Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1283		Drill rigs	394	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
1284		Air Compressor	394	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1285	Utilities	Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1286		Tractors	394	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1287	Concrete Forms	Cement/Mortar mixers	394	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1288		Loader, Rubber-tired	394	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1289	Reinforcing Steel	Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1290		Off-Highway Trucks	394	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1291	Structural Concrete	Cement/Mortar mixers	394	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1292		Loader, Rubber-tired	394	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1293		Compactor	394	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1294	Roof Deck	Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1295	Building Insulation	Pickup Truck	394	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1296		Air Compressor	394	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1297	Doors and Windows	Welder	394	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1298		Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1299		Pickup Truck	394	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0

1300	Industrial Doors/Overhead Doors	Cranes	394	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1301		Pickup Truck	394	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1302		Generator <50 HP	394	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1303		Welder	394	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1304											
1305		1000	used to convert grams to 1000's gram								
1306											
1307											
1308									**Emissions** (1000 g/year)		
1309						**Equipmen**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1310				Trenching for cement footings		Compactor	4.20	1.08	12.60	1.26	1.22
1311						Excavator (small)	172.79	2.33	357.22	30.90	47.85
1312						Trencher	62.21	10.48	68.19	6.33	9.80
1313				Trenching for utilities		Excavator (small)	172.79	2.33	357.22	30.90	47.85
1314						Trencher	62.21	10.48	68.19	6.33	9.80
1315				Erosion and Sedimentation Control		Loader, Rubber-tired	178.65	31.26	383.36	32.01	48.01
1316						Tractors	72.26	14.88	107.32	9.03	11.16
1317						Bulldozer	231.63	69.49	794.16	76.93	54.60
1318				Driven Piles		Cranes	137.99	41.40	338.41	30.56	47.31
1319						Drill rigs	567.98	87.05	679.72	57.42	88.90
1320						Air Compressor	34.97	8.39	55.96	6.51	6.99
1321				Utilities		Cranes	137.99	41.40	338.41	30.56	47.31
1322						Tractors	72.26	14.88	107.32	9.03	11.16
1323				Concrete Forms		Cement/Mortar mixers	11.16	2.45	26.71	2.26	2.18
1324						Loader, Rubber-tired	178.65	31.26	383.36	32.01	48.01
1325				Reinforcing Steel		Cranes	137.99	41.40	338.41	30.56	47.31
1326						Off-Highway Trucks	181.41	54.42	621.98	57.66	51.83
1327				Structural Concrete		Cement/Mortar mixers	11.16	2.45	26.71	2.26	2.18
1328						Loader, Rubber-tired	178.65	31.26	383.36	32.01	48.01
1329						Compactor	4.20	1.08	12.60	1.26	1.22
1330				Roof Deck		Cranes	137.99	41.40	338.41	30.56	47.31
1331				Building Insulation		Pickup Truck	3920.09	570.20	691.36	71.27	71.27
1332						Air Compressor	34.97	8.39	55.96	6.51	6.99
1333				Doors and Windows		Welder	31.02	7.44	49.63	5.77	6.20
1334						Cranes	137.99	41.40	338.41	30.56	47.31
1335						Pickup Truck	3920.09	570.20	691.36	71.27	71.27
1336				Industrial Doors/Overhead Doors		Cranes	137.99	41.40	338.41	30.56	47.31
1337						Pickup Truck	3920.09	570.20	691.36	71.27	71.27

1338		Generator <50 HP	32.06	7.69	51.30	5.96	6.41
1339		Welder	31.02	7.44	49.63	5.77	6.20
1340							
1341					**Emissions** (tons/year)		
1342		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1343	Trenching for cement footings	Compactor	0.00	0.00	0.01	0.00	0.00
1344		Excavator (small)	0.19	0.00	0.39	0.03	0.05
1345		Trencher	0.07	0.01	0.08	0.01	0.01
1346	Trenching for utilities	Excavator (small)	0.19	0.00	0.39	0.03	0.05
1347		Trencher	0.07	0.01	0.08	0.01	0.01
1348	Erosion and Sedimentation Control	Loader, Rubber-tired	0.20	0.03	0.42	0.04	0.05
1349		Tractors	0.08	0.02	0.12	0.01	0.01
1350		Bulldozer	0.26	0.08	0.88	0.08	0.06
1351	Driven Piles	Cranes	0.15	0.05	0.37	0.03	0.05
1352		Drill rigs	0.63	0.10	0.75	0.06	0.10
1353		Air Compressor	0.04	0.01	0.06	0.01	0.01
1354	Utilities	Cranes	0.15	0.05	0.37	0.03	0.05
1355		Tractors	0.08	0.02	0.12	0.01	0.01
1356	Concrete Forms	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
1357		Loader, Rubber-tired	0.20	0.03	0.42	0.04	0.05
1358	Reinforcing Steel	Cranes	0.15	0.05	0.37	0.03	0.05
1359		Off-Highway Trucks	0.20	0.06	0.69	0.06	0.06
1360	Structural Concrete	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
1361		Loader, Rubber-tired	0.20	0.03	0.42	0.04	0.05
1362		Compactor	0.00	0.00	0.01	0.00	0.00
1363	Roof Deck	Cranes	0.15	0.05	0.37	0.03	0.05
1364	Building Insulation	Pickup Truck	4.32	0.63	0.76	0.08	0.08
1365		Air Compressor	0.04	0.01	0.06	0.01	0.01
1366	Doors and Windows	Welder	0.03	0.01	0.05	0.01	0.01
1367		Cranes	0.15	0.05	0.37	0.03	0.05
1368		Pickup Truck	4.32	0.63	0.76	0.08	0.08
1369	Industrial Doors/Overhead Doors	Cranes	0.15	0.05	0.37	0.03	0.05
1370		Pickup Truck	4.32	0.63	0.76	0.08	0.08
1371		Generator <50 HP	0.04	0.01	0.06	0.01	0.01
1372		Welder	0.03	0.01	0.05	0.01	0.01
1373			**16.44**	**2.61**	**9.65**	**0.90**	**1.12**
1374							
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1376							
1377							
1378							
1379							
1380							

1381		Data				
1382	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
1383	Air Compressor	0.08	0.02	0.12	0.01	0.02
1384	Bulldozer	0.26	0.08	0.88	0.08	0.06
1385	Cement/Mortar mixers	0.02	0.01	0.06	0.00	0.00
1386	Compactor	0.01	0.00	0.03	0.00	0.00
1387	Cranes	0.91	0.27	2.24	0.20	0.31
1388	Drill rigs	0.63	0.10	0.75	0.06	0.10
1389	Excavator (small)	0.38	0.01	0.79	0.07	0.11
1390	Generator <50 HP	0.04	0.01	0.06	0.01	0.01
1391	Loader, Rubber-tired	0.59	0.10	1.27	0.11	0.16
1392	Off-Highway Trucks	0.20	0.06	0.69	0.06	0.06
1393	Pickup Truck	12.96	1.89	2.29	0.24	0.24
1394	Tractors	0.16	0.03	0.24	0.02	0.02
1395	Trencher	0.14	0.02	0.15	0.01	0.02
1396	Welder	0.07	0.02	0.11	0.01	0.01
1397	Grand Total	16.44	2.61	9.65	0.90	1.12
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Line #	**Large Hangar Apron**											
1425	**Phase**	**Equipment**	**Operating Hours**	**New Hrs**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1426				184,890				**CO**	**HC**	**NOx**	**SOx**	**PM10**
1427	TASKS	EQUIP_ TYPE	Distribution of hours for representative project									
1428	Prepare the Site	Backhoe	60.7	133	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1429	Prepare the Site	Bulldozer	175.5	385	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1430	Prepare the Site	Dump Truck	502.6	1102	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1431	Prepare the Site	Grader	23.2	51	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1432	Prepare the Site	Roller	23.2	51	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1433	Prepare the Site	Bulldozer	23.2	51	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1434	Prepare the Site	Grader	14.3	31	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1435	Prepare the Site	Water Truck	14.3	31	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1436	Prepare the Site	Tractors	14.3	31	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1437	Prepare the Site	Roller	14.3	31	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1438	Prepare the Site	Bulldozer	14.3	31	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1439	Prepare the Site	Loader, Rubber-tired	14.3	31	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1440	Prepare the Site	Dump Truck	43.4	95	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1441	Prepare the Site	Grader	18.8	41	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1442	Prepare the Site	Water Truck	18.8	41	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1443	Prepare the Site	Tractors	18.8	41	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1444	Prepare the Site	Roller	18.8	41	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1445	Prepare the Site	Bulldozer	18.8	41	356	0.59	100%	2.8	0.8	9.6	0.9	0.7

1446	Prepare the Site	Loader, Rubber-tired	18.8	41	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1447	Prepare the Site	Dump Truck	32.6	71	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1448	Prepare the Site	Grader	14.3	31	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1449	Prepare the Site	Roller	14.3	31	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1450	Prepare the Site	Bulldozer	14.3	31	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1451	Prepare the Site	Dump Truck	65.1	143	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1452	Prepare the Site	Grader	42.9	94	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1453	Drainage System	Backhoe	70.9	155	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1454	Drainage System	Bulldozer	48.2	106	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1455	Drainage System	Off-Highway Tru	131.6	288	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1456	Drainage System	Bulldozer	14.8	32	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1457	Drainage System	Compactor	14.8	32	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1458	Drainage System	Dump Truck	46.9	103	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1459	Drainage System	Backhoe	107.9	236	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1460	Pa vement Lighting	Trencher	25.2	55	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1461	Pa vement Lighting	Compactor	25.2	55	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1462	Concrete Paving	Tractors	8.3	18	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1463	Concrete Paving	Tractors	8.3	18	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1464	Concrete Paving	Off-Highway Tru	23.3	51	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1465	Concrete Paving	Asphalt Paver	23.3	51	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
1466	Concrete Paving	Pickup Truck	3.3	7	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1467	Concrete Paving	Generator <50 HP	3.3	7	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1468	Concrete Paving	Off-Highway Tru	3.3	7	658	0.25	100%	2.8	0.8	9.6	0.9	0.8

1469	Concrete Paving	Pickup Truck	3.3	7	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1470		1000	ert grams to 1000's gram									
1471												
1472												
1473										**Emissions** (1000 g/year)		
1474							**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1475							Backhoe	24.40	5.02	36.24	3.05	3.77
1476							Bulldozer	226.18	67.86	775.49	75.13	53.31
1477							Dump Truck	4753.43	398.67	1226.69	306.67	184.00
1478							Grader	15.33	6.21	38.73	3.51	4.03
1479							Roller	9.20	2.37	27.61	2.97	2.32
1480							Bulldozer	29.89	8.97	102.48	9.93	7.05
1481							Grader	9.46	3.83	23.90	2.17	2.49
1482							Water Truck	312.12	45.40	55.05	5.67	5.67
1483							Tractors	5.75	1.18	8.55	0.72	0.89
1484							Roller	5.68	1.47	17.03	1.83	1.43
1485							Bulldozer	18.44	5.53	63.23	6.13	4.35
1486							Loader, Rubber-tired	14.22	2.49	30.52	2.55	3.82
1487							Dump Truck	410.64	34.44	105.97	26.49	15.90
1488							Grader	12.39	5.02	31.31	2.84	3.26
1489							Water Truck	408.98	59.49	72.13	7.44	7.44
1490							Tractors	7.54	1.55	11.20	0.94	1.16
1491							Roller	7.44	1.92	22.32	2.40	1.87
1492							Bulldozer	24.17	7.25	82.85	8.03	5.70
1493							Loader, Rubber-tired	18.64	3.26	40.00	3.34	5.01
1494							Dump Truck	307.98	25.83	79.48	19.87	11.92
1495							Grader	9.46	3.83	23.90	2.17	2.49
1496							Roller	5.68	1.47	17.03	1.83	1.43
1497							Bulldozer	18.44	5.53	63.23	6.13	4.35
1498							Dump Truck	615.96	51.66	158.96	39.74	23.84
1499							Backhoe	28.38	11.50	71.69	6.50	7.47
1500							Bulldozer	28.50	5.87	42.33	3.56	4.40
1501							Off-Highway Trucks	62.11	18.63	212.95	20.63	14.64
1502							Bulldozer	132.82	39.85	455.37	42.22	37.95
1503							Compactor	19.08	5.72	65.41	6.34	4.50
1504							Dump Truck	0.35	0.09	1.04	0.10	0.10
1505							Backhoe	443.30	37.18	114.40	28.60	17.16
1506							Trencher	43.38	8.93	64.43	5.42	6.70
1507							Compactor	8.71	1.47	9.55	0.89	1.37
1508							Tractors	0.59	0.15	1.76	0.18	0.17
1509							Tractors	3.35	0.69	4.98	0.42	0.52
1510							Off-Highway Trucks	3.35	0.69	4.98	0.42	0.52
1511							Asphalt Paver	23.55	7.07	80.75	7.49	6.73

1512	Pickup Truck	7.06	1.32	22.71	2.05	1.98
1513	Generator <50 HP	72.71	10.58	12.82	1.32	1.32
1514	Off-Highway Trucks	0.59	0.14	0.95	0.11	0.12
1515	Pickup Truck	3.36	1.01	11.54	1.07	0.96
1516						
1517				**Emissions** (tons/year)		
1518	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1519	Backhoe	0.03	0.01	0.04	0.00	0.00
1520	Bulldozer	0.25	0.07	0.85	0.08	0.06
1521	Dump Truck	5.24	0.44	1.35	0.34	0.20
1522	Grader	0.02	0.01	0.04	0.00	0.00
1523	Roller	0.01	0.00	0.03	0.00	0.00
1524	Bulldozer	0.03	0.01	0.11	0.01	0.01
1525	Grader	0.01	0.00	0.03	0.00	0.00
1526	Water Truck	0.34	0.05	0.06	0.01	0.01
1527	Tractors	0.01	0.00	0.01	0.00	0.00
1528	Roller	0.01	0.00	0.02	0.00	0.00
1529	Bulldozer	0.02	0.01	0.07	0.01	0.00
1530	Loader, Rubber-tired	0.02	0.00	0.03	0.00	0.00
1531	Dump Truck	0.45	0.04	0.12	0.03	0.02
1532	Grader	0.01	0.01	0.03	0.00	0.00
1533	Water Truck	0.45	0.07	0.08	0.01	0.01
1534	Tractors	0.01	0.00	0.01	0.00	0.00
1535	Roller	0.01	0.00	0.02	0.00	0.00
1536	Bulldozer	0.03	0.01	0.09	0.01	0.01
1537	Loader, Rubber-tired	0.02	0.00	0.04	0.00	0.01
1538	Dump Truck	0.34	0.03	0.09	0.02	0.01
1539	Grader	0.01	0.00	0.03	0.00	0.00
1540	Roller	0.01	0.00	0.02	0.00	0.00
1541	Bulldozer	0.02	0.01	0.07	0.01	0.00
1542	Dump Truck	0.68	0.06	0.18	0.04	0.03
1543	Backhoe	0.03	0.01	0.08	0.01	0.01
1544	Bulldozer	0.03	0.01	0.05	0.00	0.00
1545	Off-Highway Trucks	0.07	0.02	0.23	0.02	0.02
1546	Bulldozer	0.15	0.04	0.50	0.05	0.04
1547	Compactor	0.02	0.01	0.07	0.01	0.00
1548	Dump Truck	0.00	0.00	0.00	0.00	0.00
1549	Backhoe	0.49	0.04	0.13	0.03	0.02
1550	Trencher	0.05	0.01	0.07	0.01	0.01
1551	Compactor	0.01	0.00	0.01	0.00	0.00
1552	Tractors	0.00	0.00	0.00	0.00	0.00
1553	Tractors	0.00	0.00	0.01	0.00	0.00
1554	Off-Highway Trucks	0.00	0.00	0.01	0.00	0.00
1555	Asphalt Paver	0.03	0.01	0.09	0.01	0.01

1556	Pickup Truck	0.01	0.00	0.03	0.00	0.00
1557	Generator <50 HP	0.08	0.01	0.01	0.00	0.00
1558	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
1559		**8.98**	**0.99**	**4.72**	**0.74**	**0.51**

1561		Data				
1562	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
1563	Asphalt Paver	0.03	0.01	0.09	0.01	0.01
1564	Backhoe	0.55	0.06	0.25	0.04	0.03
1565	Bulldozer	0.53	0.16	1.75	0.17	0.13
1566	Compactor	0.03	0.01	0.08	0.01	0.01
1567	Dump Truck	6.71	0.56	1.73	0.43	0.26
1568	Generator <50 HP	0.08	0.01	0.01	0.00	0.00
1569	Grader	0.05	0.02	0.13	0.01	0.01
1570	Loader, Rubber-tired	0.04	0.01	0.08	0.01	0.01
1571	Off-Highway Trucks	0.07	0.02	0.24	0.02	0.02
1572	Pickup Truck	0.01	0.00	0.03	0.00	0.00
1573	Roller	0.03	0.01	0.09	0.01	0.01
1574	Tractors	0.02	0.00	0.03	0.00	0.00
1575	Trencher	0.05	0.01	0.07	0.01	0.01
1576	Water Truck	0.79	0.12	0.14	0.01	0.01
1577	Grand Total	8.98	0.99	4.72	0.74	0.51

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Line #	Large Hangar Parking Lot									
1585	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1586						**CO**	**HC**	**NOx**	**SOx**	**PM10**
1587	Asphalt Paver	688	77	0.56	100%	3.20	0.60	10.30	0.93	0.90
1588	Bulldozer	688	356	0.59	100%	2.80	0.84	9.60	0.93	0.66
1589	Cold Planer	688	625	0.56	100%	2.80	0.84	9.60	0.89	0.80
1590	Compactor	688	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
1591	Dump Truck	688	500	0.56	100%	15.50	1.30	4.00	1.00	0.60
1592	Grader	688	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
1593	Loader	688	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
1594	Paving Equipment	688	99	0.53	100%	4.60	1.01	11.01	0.93	0.90
1595	Roller	688	99	0.59	100%	3.10	0.80	9.30	1.00	0.78
1596	Tractors	688	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
1597	Water Truck	688	325	0.56	100%	55.00	8.00	9.70	1.00	1.00
1598										
1599	1000	used to convert grams to 1000's gram								
1600										
1601										
1602								**Emissions** (1000 g/year)		
1603					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1604					Asphalt Paver	94.96	17.81	305.65	27.60	26.71
1605					Bulldozer	404.74	121.42	1387.68	134.43	95.40
1606					Cold Planer	670.60	201.18	2299.21	213.16	191.60
1607					Compactor	7.34	1.89	22.02	2.20	2.13
1608					Dump Truck	2969.82	249.08	766.40	191.60	114.96
1609					Grader	207.59	84.13	524.44	47.53	54.63
1610					Loader	126.26	25.99	187.53	15.78	19.50
1611					Paving Equipment	166.11	36.47	397.57	33.58	32.50
1612					Roller	124.61	32.16	373.84	40.20	31.35
1613					Tractors	126.26	25.99	187.53	15.78	19.50
1614					Water Truck	6849.74	996.33	1208.05	124.54	124.54
1615					Total	11748.03	1792.46	7659.93	846.40	712.82
1616										
1617										
1618										
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1621				**Emissions** (tons/year)		
1622	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1623	Asphalt Paver	0.10	0.02	0.34	0.03	0.03
1624	Bulldozer	0.45	0.13	1.53	0.15	0.11
1625	Cold Planer	0.74	0.22	2.53	0.23	0.21
1626	Compactor	0.01	0.00	0.02	0.00	0.00
1627	Dump Truck	3.27	0.27	0.84	0.21	0.13
1628	Grader	0.23	0.09	0.58	0.05	0.06
1629	Loader	0.14	0.03	0.21	0.02	0.02
1630	Paving Equipment	0.18	0.04	0.44	0.04	0.04
1631	Roller	0.14	0.04	0.41	0.04	0.03
1632	Tractors	0.14	0.03	0.21	0.02	0.02
1633	Water Truck	7.55	1.10	1.33	0.14	0.14
1634	Total	**12.95**	**1.98**	**8.44**	**0.93**	**0.79**
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Line #	FBO Parking Lot									
1663	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1664						**CO**	**HC**	**NOx**	**SOx**	**PM10**
1665	Asphalt Paver	536.6	77	0.56	1	3.20	0.60	10.30	0.93	0.90
1666	Bulldozer	536.6	356	0.59	1	2.80	0.84	9.60	0.93	0.66
1667	Cold Planer	536.6	625	0.5568182	1	2.80	0.84	9.60	0.89	0.80
1668	Compactor	536.6	8	0.43	1	3.10	0.80	9.30	0.93	0.90
1669	Dump Truck	536.6	500	0.5568182	1	15.50	1.30	4.00	1.00	0.60
1670	Grader	536.6	147	0.54	1	3.80	1.54	9.60	0.87	1.00
1671	Loader	536.6	71	0.38	1	6.80	1.40	10.10	0.85	1.05
1672	Paving Equipment	536.6	99	0.53	1	4.60	1.01	11.01	0.93	0.90
1673	Roller	536.6	99	0.59	1	3.10	0.80	9.30	1.00	0.78
1674	Tractors	536.6	71	0.38	1	6.80	1.40	10.10	0.85	1.05
1675	Water Truck	536.6	325	0.5568182	1	55.00	8.00	9.70	1.00	1.00
1676										
1677	1000	used to convert grams to 1000's gram								
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1680								**Emissions** (1000 g/year)		
1681					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1682					Asphalt Paver	74.04	13.88	238.32	21.52	20.82
1683					Bulldozer	315.58	94.67	1081.99	104.82	74.39
1684					Cold Planer	522.88	156.86	1792.73	166.20	149.39
1685					Compactor	5.72	1.48	17.17	1.72	1.66
1686					Dump Truck	2315.61	194.21	597.58	149.39	89.64
1687					Grader	161.86	65.60	408.91	37.06	42.60
1688					Loader	98.45	20.27	146.22	12.31	15.20
1689					Paving Equipment	129.51	28.44	309.99	26.18	25.34
1690					Roller	97.16	25.07	291.49	31.34	24.45
1691					Tractors	98.45	20.27	146.22	12.31	15.20
1692					Water Truck	5340.85	776.85	941.93	97.11	97.11
1693					Total	9160.12	1397.61	5972.56	659.95	555.80
1694										
1695								**Emissions** (tons/year)		
1696					Equipment	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1697					Asphalt Paver	0.08	0.02	0.26	0.02	0.02
1698					Bulldozer	0.35	0.10	1.19	0.12	0.08

1699	Cold Planer	0.58	0.17	1.98	0.18	0.16
1700	Compactor	0.01	0.00	0.02	0.00	0.00
1701	Dump Truck	2.55	0.21	0.66	0.16	0.10
1702	Grader	0.18	0.07	0.45	0.04	0.05
1703	Loader	0.11	0.02	0.16	0.01	0.02
1704	Paving Equipment	0.14	0.03	0.34	0.03	0.03
1705	Roller	0.11	0.03	0.32	0.03	0.03
1706	Tractors	0.11	0.02	0.16	0.01	0.02
1707	Water Truck	5.89	0.86	1.04	0.11	0.11
1708	Total	**10.10**	**1.54**	**6.58**	**0.73**	**0.61**
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Line #	FBO Hangar										
1744	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1745							**CO**	**HC**	**NOx**	**SOx**	**PM10**
1746	Trenching for cement footings	Compactor	362.5806452	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1747		Excavator (small)	362.5806452	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1748		Trencher	362.5806452	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1749	Trenching for utilities	Excavator (small)	362.5806452	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
1750		Trencher	362.5806452	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1751	Erosion and Sedimentation Control	Loader, Rubber-tired	362.5806452	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1752		Tractors	362.5806452	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1753		Bulldozer	362.5806452	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1754	Driven Piles	Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1755		Drill rigs	362.5806452	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
1756		Air Compressor	362.5806452	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1757	Utilities	Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1758		Tractors	362.5806452	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1759	Concrete Forms	Cement/Mortar mixers	362.5806452	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1760		Loader, Rubber-tired	362.5806452	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1761	Reinforcing Steel	Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1762		Off-Highway Trucks	362.5806452	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1763	Structural Concrete	Cement/Mortar mixers	362.5806452	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
1764		Loader, Rubber-tired	362.5806452	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1765		Compactor	362.5806452	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1766	Roof Deck	Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1767	Building Insulation	Pickup Truck	362.5806452	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1768		Air Compressor	362.5806452	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
1769	Doors and Windows	Welder	362.5806452	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1770		Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
1771		Pickup Truck	362.5806452	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1772	Industrial Doors/Overhead Doors	Cranes	362.5806452	194	0.43	100%	4.2	1.3	10.3	0.9	1.4

1773	Pickup Truck	362.5806452	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1774	Generator <50 HP	362.5806452	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1775	Welder	362.5806452	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
1776										
1777	1000	used to convert grams to 1000's gram								
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1780								**Emissions** (1000 g/year)		
1781					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1782					Compactor	3.87	1.00	11.60	1.16	1.12
1783		Trenching for cement footings			Excavator (small)	159.07	2.14	328.85	28.45	44.05
1784					Trencher	57.27	9.65	62.78	5.83	9.02
1785		Trenching for utilities			Excavator (small)	159.07	2.14	328.85	28.45	44.05
1786					Trencher	57.27	9.65	62.78	5.83	9.02
1787		Erosion and Sedimentation Control			Loader, Rubber-tired	164.47	28.78	352.92	29.47	44.20
1788					Tractors	66.52	13.70	98.80	8.32	10.27
1789					Bulldozer	213.24	63.97	731.10	70.83	50.26
1790		Driven Piles			Cranes	127.04	38.11	311.54	28.13	43.55
1791					Drill rigs	522.88	80.14	625.75	52.86	81.84
1792					Air Compressor	32.20	7.73	51.52	5.99	6.44
1793		Utilities			Cranes	127.04	38.11	311.54	28.13	43.55
1794					Tractors	66.52	13.70	98.80	8.32	10.27
1795		Concrete Forms			Cement/Mortar mixers	10.27	2.26	24.59	2.08	2.01
1796					Loader, Rubber-tired	164.47	28.78	352.92	29.47	44.20
1797		Reinforcing Steel			Cranes	127.04	38.11	311.54	28.13	43.55
1798					Off-Highway Trucks	167.00	50.10	572.59	53.08	47.72
1799		Structural Concrete			Cement/Mortar mixers	10.27	2.26	24.59	2.08	2.01

1800		Loader, Rubber-tired	164.47	28.78	352.92	29.47	44.20
1801		Compactor	3.87	1.00	11.60	1.16	1.12
1802	Roof Deck	Cranes	127.04	38.11	311.54	28.13	43.55
1803	Building Insulation	Pickup Truck	3608.81	524.92	636.46	65.61	65.61
1804		Air Compressor	32.20	7.73	51.52	5.99	6.44
1805	Doors and Windows	Welder	28.55	6.85	45.69	5.31	5.71
1806		Cranes	127.04	38.11	311.54	28.13	43.55
1807		Pickup Truck	3608.81	524.92	636.46	65.61	65.61
1808	Industrial Doors/Overhead Doors	Cranes	127.04	38.11	311.54	28.13	43.55
1809		Pickup Truck	3608.81	524.92	636.46	65.61	65.61
1810		Generator <50 HP	29.51	7.08	47.22	5.49	5.90
1811		Welder	28.55	6.85	45.69	5.31	5.71
1812							
1813					**Emissions**		
1814		Equipment	**CO**	**HC**	**NOx**	**SOx**	**PM10**
1815		Compactor	0.00	0.00	0.01	0.00	0.00
1816	Trenching for cement footings	Excavator (small)	0.18	0.00	0.36	0.03	0.05
1817		Trencher	0.06	0.01	0.07	0.01	0.01
1818	Trenching for utilities	Excavator (small)	0.18	0.00	0.36	0.03	0.05
1819		Trencher	0.06	0.01	0.07	0.01	0.01
1820	Erosion and Sedimentation Control	Loader, Rubber-tired	0.18	0.03	0.39	0.03	0.05
1821		Tractors	0.07	0.02	0.11	0.01	0.01
1822		Bulldozer	0.24	0.07	0.81	0.08	0.06
1823	Driven Piles	Cranes	0.14	0.04	0.34	0.03	0.05
1824		Drill rigs	0.58	0.09	0.69	0.06	0.09
1825		Air Compressor	0.04	0.01	0.06	0.01	0.01
1826	Utilities	Cranes	0.14	0.04	0.34	0.03	0.05
1827		Tractors	0.07	0.02	0.11	0.01	0.01
1828	Concrete Forms	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
1829		Loader, Rubber-tired	0.18	0.03	0.39	0.03	0.05

1830			Reinforcing Steel	Cranes	0.14	0.04	0.34	0.03	0.05
1831				Off-Highway Trucks	0.18	0.06	0.63	0.06	0.05
1832			Structural Concrete	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
1833				Loader, Rubber-tired	0.18	0.03	0.39	0.03	0.05
1834				Compactor	0.00	0.00	0.01	0.00	0.00
1835			Roof Deck	Cranes	0.14	0.04	0.34	0.03	0.05
1836			Building Insulation	Pickup Truck	3.98	0.58	0.70	0.07	0.07
1837				Air Compressor	0.04	0.01	0.06	0.01	0.01
1838			Doors and Windows	Welder	0.03	0.01	0.05	0.01	0.01
1839				Cranes	0.14	0.04	0.34	0.03	0.05
1840				Pickup Truck	3.98	0.58	0.70	0.07	0.07
1841			Industrial Doors/Overhead Doors	Cranes	0.14	0.04	0.34	0.03	0.05
1842				Pickup Truck	3.98	0.58	0.70	0.07	0.07
1843				Generator <50 HP	0.03	0.01	0.05	0.01	0.01
1844				Welder	0.03	0.01	0.05	0.01	0.01
1845					**15.13**	**2.40**	**8.89**	**0.83**	**1.03**
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1857		Data							
1858	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10			
1859	Air Compressor	0.07	0.02	0.11	0.01	0.01			
1860	Bulldozer	0.24	0.07	0.81	0.08	0.06			
1861	Cement/Mortar mixers	0.02	0.00	0.05	0.00	0.00			
1862	Compactor	0.01	0.00	0.03	0.00	0.00			
1863	Cranes	0.84	0.25	2.06	0.19	0.29			
1864	Drill rigs	0.58	0.09	0.69	0.06	0.09			
1865	Excavator (small)	0.35	0.00	0.72	0.06	0.10			

1866	Generator <50 HP	0.03	0.01	0.05	0.01	0.01	
1867	Loader, Rubber-tired	0.54	0.10	1.17	0.10	0.15	
1868	Off-Highway Trucks	0.18	0.06	0.63	0.06	0.05	
1869	Pickup Truck	11.93	1.74	2.10	0.22	0.22	
1870	Tractors	0.15	0.03	0.22	0.02	0.02	
1871	Trencher	0.13	0.02	0.14	0.01	0.02	
1872	Welder	0.06	0.02	0.10	0.01	0.01	
1873	Grand Total	15.13	2.40	8.89	0.83	1.03	
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Line #	FBO Apron											
1899	**Phase**	**Equipment**	**Operating Hours**	**New Hrs**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
1900					335800			**CO**	**HC**	**NOx**	**SOx**	**PM10**
1901			Distribution of hours for representative project									
1902	Prepare the Site	Backhoe	61	315	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1903	Prepare the Site	Bulldozer	175	912	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1904	Prepare the Site	Dump Truck	503	2612	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1905	Prepare the Site	Grader	23	121	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1906	Prepare the Site	Roller	23	121	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1907	Prepare the Site	Bulldozer	23	121	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1908	Prepare the Site	Grader	14	74	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1909	Prepare the Site	Water Truck	14	74	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1910	Prepare the Site	Tractors	14	74	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1911	Prepare the Site	Roller	14	74	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1912	Prepare the Site	Bulldozer	14	74	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1913	Prepare the Site	Loader, Rubber-tired	14	74	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1914	Prepare the Site	Dump Truck	43	226	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1915	Prepare the Site	Grader	19	97	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1916	Prepare the Site	Water Truck	19	97	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1917	Prepare the Site	Tractors	19	97	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1918	Prepare the Site	Roller	19	97	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1919	Prepare the Site	Bulldozer	19	97	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1920	Prepare the Site	Loader, Rubber-tired	19	97	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
1921	Prepare the Site	Dump Truck	33	169	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1922	Prepare the Site	Grader	14	74	147	0.54	100%	3.8	1.5	9.6	0.9	1.0

1923	Prepare the Site	Roller	14	74	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
1924	Prepare the Site	Bulldozer	14	74	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1925	Prepare the Site	Dump Truck	65	339	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1926	Prepare the Site	Grader	43	223	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
1927	Drainage System	Backhoe	71	368	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1928	Drainage System	Bulldozer	48	250	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1929	Drainage System	Off-Highway Trucks	132	684	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1930	Drainage System	Bulldozer	15	77	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
1931	Drainage System	Compactor	15	77	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1932	Drainage System	Dump Truck	47	244	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
1933	Drainage System	Backhoe	108	561	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1934	Pa vement Lighting	Trencher	25	131	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
1935	Pa vement Lighting	Compactor	25	131	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
1936	Concrete Paving	Tractors	8	43	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1937	Concrete Paving	Tractors	8	43	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
1938	Concrete Paving	Off-Highway Trucks	23	121	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1939	Concrete Paving	Asphalt Paver	23	121	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
1940	Concrete Paving	Pickup Truck	3	17	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1941	Concrete Paving	Generator <50 HP	3	17	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
1942	Concrete Paving	Off-Highway Trucks	3	17	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
1943	Concrete Paving	Pickup Truck	3	17	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
1944		1000	used to convert grams to 1000's gram									
1945												
1946												
1947							**Equipment**			**Emissions** (1000 g/year)		
1948								**CO**	**HC**	**NOx**	**SOx**	**PM10**

1949						
1950	Backhoe	57.87	11.91	85.96	7.23	8.94
1951	Bulldozer	536.44	160.93	1839.22	178.17	126.45
1952	Dump Truck	11273.62	945.53	2909.32	727.33	436.40
1953	Grader	36.36	14.73	91.85	8.32	9.57
1954	Roller	21.83	5.63	65.48	7.04	5.49
1955	Bulldozer	70.89	21.27	243.05	23.55	16.71
1956	Grader	22.43	9.09	56.68	5.14	5.90
1957	Water Truck	740.24	107.67	130.55	13.46	13.46
1958	Tractors	13.64	2.81	20.27	1.71	2.11
1959	Roller	13.47	3.48	40.40	4.34	3.39
1960	Bulldozer	43.74	13.12	149.96	14.53	10.31
1961	Loader, Rubber-tired	33.74	5.90	72.39	6.04	9.07
1962	Dump Truck	973.90	81.68	251.33	62.83	37.70
1963	Grader	29.40	11.91	74.26	6.73	7.74
1964	Water Truck	969.97	141.09	171.07	17.64	17.64
1965	Tractors	17.88	3.68	26.56	2.23	2.76
1966	Roller	17.65	4.55	52.94	5.69	4.44
1967	Bulldozer	57.31	17.19	196.50	19.04	13.51
1968	Loader, Rubber-tired	44.21	7.74	94.86	7.92	11.88
1969	Dump Truck	730.42	61.26	188.50	47.12	28.27
1970	Grader	22.43	9.09	56.68	5.14	5.90
1971	Roller	13.47	3.48	40.40	4.34	3.39
1972	Bulldozer	43.74	13.12	149.96	14.53	10.31
1973	Dump Truck	1460.85	122.52	376.99	94.25	56.55
1974	Backhoe	67.30	27.28	170.03	15.41	17.71
1975	Bulldozer	67.60	13.92	100.40	8.45	10.44
1976	Off-Highway Trucks	147.31	44.19	505.05	48.93	34.72
1977	Bulldozer	315.00	94.50	1080.00	100.12	90.00
1978	Compactor	45.25	13.57	155.14	15.03	10.67
1979	Dump Truck	0.82	0.21	2.46	0.25	0.24
1980	Backhoe	1051.37	88.18	271.32	67.83	40.70
1981	Trencher	102.88	21.18	152.81	12.86	15.89
1982	Compactor	20.66	3.48	22.65	2.10	3.25
1983	Tractors	1.39	0.36	4.18	0.42	0.40
1984	Tractors	7.95	1.64	11.80	0.99	1.23
1985	Off-Highway Trucks	7.95	1.64	11.80	0.99	1.23
1986	Asphalt Paver	55.86	16.76	191.52	17.76	15.96
1987	Pickup Truck	16.73	3.14	53.86	4.86	4.71
1988	Generator <50 HP	172.44	25.08	30.41	3.14	3.14
1989	Off-Highway Trucks	1.41	0.34	2.26	0.26	0.28
1990	Pickup Truck	7.98	2.39	27.36	2.54	2.28
1991						

1992						
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1998				**Emissions** (tons/year)		
1999	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2000	Backhoe	0.06	0.01	0.09	0.01	0.01
2001	Bulldozer	0.59	0.18	2.03	0.20	0.14
2002	Dump Truck	12.43	1.04	3.21	0.80	0.48
2003	Grader	0.04	0.02	0.10	0.01	0.01
2004	Roller	0.02	0.01	0.07	0.01	0.01
2005	Bulldozer	0.08	0.02	0.27	0.03	0.02
2006	Grader	0.02	0.01	0.06	0.01	0.01
2007	Water Truck	0.82	0.12	0.14	0.01	0.01
2008	Tractors	0.02	0.00	0.02	0.00	0.00
2009	Roller	0.01	0.00	0.04	0.00	0.00
2010	Bulldozer	0.05	0.01	0.17	0.02	0.01
2011	Loader, Rubber-tired	0.04	0.01	0.08	0.01	0.01
2012	Dump Truck	1.07	0.09	0.28	0.07	0.04
2013	Grader	0.03	0.01	0.08	0.01	0.01
2014	Water Truck	1.07	0.16	0.19	0.02	0.02
2015	Tractors	0.02	0.00	0.03	0.00	0.00
2016	Roller	0.02	0.01	0.06	0.01	0.00
2017	Bulldozer	0.06	0.02	0.22	0.02	0.01
2018	Loader, Rubber-tired	0.05	0.01	0.10	0.01	0.01
2019	Dump Truck	0.81	0.07	0.21	0.05	0.03
2020	Grader	0.02	0.01	0.06	0.01	0.01
2021	Roller	0.01	0.00	0.04	0.00	0.00
2022	Bulldozer	0.05	0.01	0.17	0.02	0.01
2023	Dump Truck	1.61	0.14	0.42	0.10	0.06
2024	Backhoe	0.07	0.03	0.19	0.02	0.02
2025	Bulldozer	0.07	0.02	0.11	0.01	0.01
2026	Off-Highway Trucks	0.16	0.05	0.56	0.05	0.04
2027	Bulldozer	0.35	0.10	1.19	0.11	0.10
2028	Compactor	0.05	0.01	0.17	0.02	0.01
2029	Dump Truck	0.00	0.00	0.00	0.00	0.00
2030	Backhoe	1.16	0.10	0.30	0.07	0.04
2031	Trencher	0.11	0.02	0.17	0.01	0.02
2032	Compactor	0.02	0.00	0.02	0.00	0.00
2033	Tractors	0.00	0.00	0.00	0.00	0.00

2034	Tractors	0.01	0.00	0.01	0.00	0.00
2035	Off-Highway Trucks	0.01	0.00	0.01	0.00	0.00
2036	Asphalt Paver	0.06	0.02	0.21	0.02	0.02
2037	Pickup Truck	0.02	0.00	0.06	0.01	0.01
2038	Generator <50 HP	0.19	0.03	0.03	0.00	0.00
2039	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
2040		**21.30**	**2.35**	**11.19**	**1.75**	**1.21**

2043		Data				
2044	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
2045	Asphalt Paver	0.06	0.02	0.21	0.02	0.02
2046	Backhoe	1.30	0.14	0.58	0.10	0.07
2047	Bulldozer	1.25	0.37	4.14	0.40	0.31
2048	Compactor	0.07	0.02	0.20	0.02	0.02
2049	Dump Truck	15.92	1.34	4.11	1.03	0.62
2050	Generator <50 HP	0.19	0.03	0.03	0.00	0.00
2051	Grader	0.12	0.05	0.31	0.03	0.03
2052	Loader, Rubber-tired	0.09	0.02	0.18	0.02	0.02
2053	Off-Highway Trucks	0.17	0.05	0.57	0.06	0.04
2054	Pickup Truck	0.02	0.00	0.06	0.01	0.01
2055	Roller	0.07	0.02	0.22	0.02	0.02
2056	Tractors	0.05	0.01	0.07	0.01	0.01
2057	Trencher	0.11	0.02	0.17	0.01	0.02
2058	Water Truck	1.89	0.27	0.33	0.03	0.03
2059	Grand Total	21.30	2.35	11.19	1.75	1.21

Line #	**T-Hangar Apron**											
2071	**Phase**	**Equipment**	**Operating Hours**	**New Hrs**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
2072				262330				**CO**	**HC**	**NOx**	**SOx**	**PM10**
2073			Distribution of hours for representative project									
2074	Prepare the Site	Backhoe	61	189	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2075	Prepare the Site	Bulldozer	175	546	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2076	Prepare the Site	Dump Truck	503	1563	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2077	Prepare the Site	Grader	23	0	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2078	Prepare the Site	Roller	23	72	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2079	Prepare the Site	Bulldozer	23	72	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2080	Prepare the Site	Grader	14	44	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2081	Prepare the Site	Water Truck	14	44	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2082	Prepare the Site	Tractors	14	44	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2083	Prepare the Site	Roller	14	44	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2084	Prepare the Site	Bulldozer	14	44	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2085	Prepare the Site	Loader, Rubber-tired	14	44	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
2086	Prepare the Site	Dump Truck	43	135	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2087	Prepare the Site	Grader	19	58	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2088	Prepare the Site	Water Truck	19	58	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2089	Prepare the Site	Tractors	19	58	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2090	Prepare the Site	Roller	19	58	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2091	Prepare the Site	Bulldozer	19	58	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2092	Prepare the Site	Loader, Rubber-tired	19	58	175	0.54	100%	4.8	0.8	10.3	0.9	1.3

2093	Prepare the Site	Dump Truck	33	101	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2094	Prepare the Site	Grader	14	44	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2095	Prepare the Site	Roller	14	44	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2096	Prepare the Site	Bulldozer	14	44	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2097	Prepare the Site	Dump Truck	65	203	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2098	Prepare the Site	Grader	43	133	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2099	Drainage System	Backhoe	71	220	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2100	Drainage System	Bulldozer	48	150	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2101	Drainage System	Off-Highway Trucks	132	409	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2102	Drainage System	Bulldozer	15	46	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2103	Drainage System	Compactor	15	46	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
2104	Drainage System	Dump Truck	47	146	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2105	Drainage System	Backhoe	108	335	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2106	Pa vement Lighting	Trencher	25	78	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
2107	Pa vement Lighting	Compactor	25	78	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
2108	Concrete Paving	Tractors	8	26	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2109	Concrete Paving	Tractors	8	26	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2110	Concrete Paving	Off-Highway Trucks	23	73	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2111	Concrete Paving	Asphalt Paver	23	73	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
2112	Concrete Paving	Pickup Truck	3	10	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2113	Concrete Paving	Generator <50 HP	3	10	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
2114	Concrete Paving	Off-Highway Trucks	3	10	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2115	Concrete Paving	Pickup Truck	3	10	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2116			1000	used to convert grams to 1000's gram								
2117												
2118												

2119				**Emissions** (1000 g/year)		
2120	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2121	Backhoe	34.62	7.13	51.42	4.33	5.35
2122	Bulldozer	320.92	96.28	1100.30	106.59	75.65
2123	Dump Truck	6744.38	565.66	1740.48	435.12	261.07
2124	Grader	0.00	0.00	0.00	0.00	0.00
2125	Roller	13.06	3.37	39.17	4.21	3.29
2126	Bulldozer	42.41	12.72	145.40	14.09	10.00
2127	Grader	13.42	5.44	33.91	3.07	3.53
2128	Water Truck	442.85	64.41	78.10	8.05	8.05
2129	Tractors	8.16	1.68	12.12	1.02	1.26
2130	Roller	8.06	2.08	24.17	2.60	2.03
2131	Bulldozer	26.17	7.85	89.72	8.69	6.17
2132	Loader, Rubber-tired	20.18	3.53	43.31	3.62	5.42
2133	Dump Truck	582.63	48.87	150.36	37.59	22.55
2134	Grader	17.59	7.13	44.43	4.03	4.63
2135	Water Truck	580.28	84.40	102.34	10.55	10.55
2136	Tractors	10.70	2.20	15.89	1.34	1.65
2137	Roller	10.56	2.72	31.67	3.41	2.66
2138	Bulldozer	34.29	10.29	117.56	11.39	8.08
2139	Loader, Rubber-tired	26.45	4.63	56.75	4.74	7.11
2140	Dump Truck	436.97	36.65	112.77	28.19	16.92
2141	Grader	13.42	5.44	33.91	3.07	3.53
2142	Roller	8.06	2.08	24.17	2.60	2.03
2143	Bulldozer	26.17	7.85	89.72	8.69	6.17
2144	Dump Truck	873.94	73.30	225.53	56.38	33.83
2145	Backhoe	40.26	16.32	101.72	9.22	10.60
2146	Bulldozer	40.44	8.33	60.06	5.05	6.24
2147	Off-Highway Trucks	88.13	26.44	302.14	29.27	20.77
2148	Bulldozer	188.45	56.53	646.10	59.90	53.84
2149	Compactor	27.07	8.12	92.81	8.99	6.38
2150	Dump Truck	0.49	0.13	1.47	0.15	0.14
2151	Backhoe	628.97	52.75	162.32	40.58	24.35
2152	Trencher	61.55	12.67	91.42	7.69	9.50
2153	Compactor	12.36	2.08	13.55	1.26	1.95
2154	Tractors	0.83	0.22	2.50	0.25	0.24
2155	Tractors	4.75	0.98	7.06	0.59	0.73
2156	Off-Highway Trucks	4.75	0.98	7.06	0.59	0.73
2157	Asphalt Paver	33.42	10.03	114.58	10.62	9.55
2158	Pickup Truck	10.01	1.88	32.22	2.91	2.82
2159	Generator <50 HP	103.16	15.01	18.19	1.88	1.88
2160	Off-Highway Trucks	0.84	0.20	1.35	0.16	0.17
2161	Pickup Truck	4.77	1.43	16.37	1.52	1.36
2162						
2163				**Emissions**		
2164	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2165	Backhoe	0.04	0.01	0.06	0.00	0.01
2166	Bulldozer	0.35	0.11	1.21	0.12	0.08
2167	Dump Truck	7.43	0.62	1.92	0.48	0.29

2168	Grader	0.00	0.00	0.00	0.00	0.00
2169	Roller	0.01	0.00	0.04	0.00	0.00
2170	Bulldozer	0.05	0.01	0.16	0.02	0.01
2171	Grader	0.01	0.01	0.04	0.00	0.00
2172	Water Truck	0.49	0.07	0.09	0.01	0.01
2173	Tractors	0.01	0.00	0.01	0.00	0.00
2174	Roller	0.01	0.00	0.03	0.00	0.00
2175	Bulldozer	0.03	0.01	0.10	0.01	0.01
2176	Loader, Rubber-tired	0.02	0.00	0.05	0.00	0.01
2177	Dump Truck	0.64	0.05	0.17	0.04	0.02
2178	Grader	0.02	0.01	0.05	0.00	0.01
2179	Water Truck	0.64	0.09	0.11	0.01	0.01
2180	Tractors	0.01	0.00	0.02	0.00	0.00
2181	Roller	0.01	0.00	0.03	0.00	0.00
2182	Bulldozer	0.04	0.01	0.13	0.01	0.01
2183	Loader, Rubber-tired	0.03	0.01	0.06	0.01	0.01
2184	Dump Truck	0.48	0.04	0.12	0.03	0.02
2185	Grader	0.01	0.01	0.04	0.00	0.00
2186	Roller	0.01	0.00	0.03	0.00	0.00
2187	Bulldozer	0.03	0.01	0.10	0.01	0.01
2188	Dump Truck	0.96	0.08	0.25	0.06	0.04
2189	Backhoe	0.04	0.02	0.11	0.01	0.01
2190	Bulldozer	0.04	0.01	0.07	0.01	0.01
2191	Off-Highway Trucks	0.10	0.03	0.33	0.03	0.02
2192	Bulldozer	0.21	0.06	0.71	0.07	0.06
2193	Compactor	0.03	0.01	0.10	0.01	0.01
2194	Dump Truck	0.00	0.00	0.00	0.00	0.00
2195	Backhoe	0.69	0.06	0.18	0.04	0.03
2196	Trencher	0.07	0.01	0.10	0.01	0.01
2197	Compactor	0.01	0.00	0.01	0.00	0.00
2198	Tractors	0.00	0.00	0.00	0.00	0.00
2199	Tractors	0.01	0.00	0.01	0.00	0.00
2200	Off-Highway Trucks	0.01	0.00	0.01	0.00	0.00
2201	Asphalt Paver	0.04	0.01	0.13	0.01	0.01
2202	Pickup Truck	0.01	0.00	0.04	0.00	0.00
2203	Generator <50 HP	0.11	0.02	0.02	0.00	0.00
2204	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
2205		**12.72**	**1.40**	**6.63**	**1.04**	**0.72**
2206						
2207						
2208						
2209						
2210						
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2218						
2219		Data				
2220	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
2221	Asphalt Paver	0.04	0.01	0.13	0.01	0.01
2222	Backhoe	0.78	0.08	0.35	0.06	0.04
2223	Bulldozer	0.75	0.22	2.48	0.24	0.18
2224	Compactor	0.04	0.01	0.12	0.01	0.01
2225	Dump Truck	9.52	0.80	2.46	0.61	0.37
2226	Generator <50 HP	0.11	0.02	0.02	0.00	0.00
2227	Grader	0.05	0.02	0.12	0.01	0.01
2228	Loader, Rubber-tired	0.05	0.01	0.11	0.01	0.01
2229	Off-Highway Trucks	0.10	0.03	0.34	0.03	0.02
2230	Pickup Truck	0.01	0.00	0.04	0.00	0.00
2231	Roller	0.04	0.01	0.13	0.01	0.01
2232	Tractors	0.03	0.01	0.04	0.00	0.00
2233	Trencher	0.07	0.01	0.10	0.01	0.01
2234	Water Truck	1.13	0.16	0.20	0.02	0.02
2235	Grand Total	12.72	1.40	6.63	1.04	0.72
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2240						
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2242						
2243						
2244						
2245						
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2250						
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Line #	T-Hangar										
2264	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
2265							**CO**	**HC**	**NOx**	**SOx**	**PM10**
2266	Trenching for cement footings	Compactor	244	8	0.43	1	3.1	0.8	9.3	0.9	0.9
2267		Excavator (small)	244	143	0.59	1	5.2	0.1	10.8	0.9	1.4
2268		Trencher	244	27	0.64	1	9.1	1.5	10.0	0.9	1.4
2269	Trenching for utilities	Excavator (small)	244	143	0.59	1	5.2	0.1	10.8	0.9	1.4
2270		Trencher	244	27	0.64	1	9.1	1.5	10.0	0.9	1.4
2271	Erosion and Sedimentation Control	Loader, Rubber-tired	244	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2272		Tractors	244	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2273		Bulldozer	244	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2274	Driven Piles	Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2275		Drill rigs	244	209	0.75	1	9.2	1.4	11.0	0.9	1.4
2276		Air Compressor	244	37	0.48	1	5.0	1.2	8.0	0.9	1.0
2277	Utilities	Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2278		Tractors	244	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2279	Concrete Forms	Cement/Mortar mixers	244	11	0.56	1	4.6	1.0	11.0	0.9	0.9
2280		Loader, Rubber-tired	244	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2281	Reinforcing Steel	Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2282		Off-Highway Trucks	244	658	0.25	1	2.8	0.8	9.6	0.9	0.8
2283	Structural Concrete	Cement/Mortar mixers	244	11	0.56	1	4.6	1.0	11.0	0.9	0.9
2284		Loader, Rubber-tired	244	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2285		Compactor	244	8	0.43	1	3.1	0.8	9.3	0.9	0.9
2286	Roof Deck	Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2287	Building Insulation	Pickup Truck	244	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2288		Air Compressor	244	37	0.48	1	5.0	1.2	8.0	0.9	1.0
2289	Doors and Windows	Welder	244	35	0.45	1	5.0	1.2	8.0	0.9	1.0
2290		Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2291		Pickup Truck	244	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2292	Industrial Doors/Overhead Doors	Cranes	244	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2293		Pickup Truck	244	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2294		Generator <50 HP	244	22	0.74	1	5.0	1.2	8.0	0.9	1.0
2295		Welder	244	35	0.45	1	5.0	1.2	8.0	0.9	1.0
2296											
2297			1000 used to convert grams to 1000's gram								
2298											
2299											
2300							**Emissions** (1000 g/year)				
2301						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2302						Compactor	2.60	0.67	7.80	0.78	0.75
2303				Trenching for cement footings		Excavator (small)	106.94	1.44	221.07	19.13	29.61
2304						Trencher	38.50	6.49	42.20	3.92	6.07

2305	Trenching for utilities	Excavator (small)	106.94	1.44	221.07	19.13	29.61
2306		Trencher	38.50	6.49	42.20	3.92	6.07
2307	Erosion and Sedimentation Control	Loader, Rubber-tired	110.56	19.35	237.25	19.81	29.71
2308		Tractors	44.72	9.21	66.42	5.59	6.91
2309		Bulldozer	143.35	43.01	491.49	47.61	33.79
2310	Driven Piles	Cranes	85.40	25.62	209.43	18.91	29.28
2311		Drill rigs	351.51	53.87	420.66	35.53	55.02
2312		Air Compressor	21.64	5.19	34.63	4.03	4.33
2313	Utilities	Cranes	85.40	25.62	209.43	18.91	29.28
2314		Tractors	44.72	9.21	66.42	5.59	6.91
2315	Concrete Forms	Cement/Mortar mixers	6.91	1.52	16.53	1.40	1.35
2316		Loader, Rubber-tired	110.56	19.35	237.25	19.81	29.71
2317	Reinforcing Steel	Cranes	85.40	25.62	209.43	18.91	29.28
2318		Off-Highway Trucks	112.27	33.68	384.93	35.69	32.08
2319	Structural Concrete	Cement/Mortar mixers	6.91	1.52	16.53	1.40	1.35
2320		Loader, Rubber-tired	110.56	19.35	237.25	19.81	29.71
2321		Compactor	2.60	0.67	7.80	0.78	0.75
2322	Roof Deck	Cranes	85.40	25.62	209.43	18.91	29.28
2323	Building Insulation	Pickup Truck	2426.06	352.88	427.87	44.11	44.11
2324		Air Compressor	21.64	5.19	34.63	4.03	4.33
2325	Doors and Windows	Welder	19.20	4.61	30.71	3.57	3.84
2326		Cranes	85.40	25.62	209.43	18.91	29.28
2327		Pickup Truck	2426.06	352.88	427.87	44.11	44.11
2328	Industrial Doors/Overhead Doors	Cranes	85.40	25.62	209.43	18.91	29.28
2329		Pickup Truck	2426.06	352.88	427.87	44.11	44.11
2330		Generator <50 HP	19.84	4.76	31.75	3.69	3.97
2331		Welder	19.20	4.61	30.71	3.57	3.84
2332							
2333					**Emissions** (tons/year)		
2334		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2335		Compactor	0.00	0.00	0.01	0.00	0.00
2336	Trenching for cement footings	Excavator (small)	0.12	0.00	0.24	0.02	0.03
2337		Trencher	0.04	0.01	0.05	0.00	0.01
2338	Trenching for utilities	Excavator (small)	0.12	0.00	0.24	0.02	0.03
2339		Trencher	0.04	0.01	0.05	0.00	0.01
2340	Erosion and Sedimentation Control	Loader, Rubber-tired	0.12	0.02	0.26	0.02	0.03
2341		Tractors	0.05	0.01	0.07	0.01	0.01
2342		Bulldozer	0.16	0.05	0.54	0.05	0.04
2343	Driven Piles	Cranes	0.09	0.03	0.23	0.02	0.03
2344		Drill rigs	0.39	0.06	0.46	0.04	0.06

2345							Air Compressor	0.02	0.01	0.04	0.00	0.00
2346						Utilities	Cranes	0.09	0.03	0.23	0.02	0.03
2347							Tractors	0.05	0.01	0.07	0.01	0.01
2348						Concrete Forms	Cement/Mortar mixers	0.01	0.00	0.02	0.00	0.00
2349							Loader, Rubber-tired	0.12	0.02	0.26	0.02	0.03
2350						Reinforcing Steel	Cranes	0.09	0.03	0.23	0.02	0.03
2351							Off-Highway Trucks	0.12	0.04	0.42	0.04	0.04
2352						Structural Concrete	Cement/Mortar mixers	0.01	0.00	0.02	0.00	0.00
2353							Loader, Rubber-tired	0.12	0.02	0.26	0.02	0.03
2354							Compactor	0.00	0.00	0.01	0.00	0.00
2355						Roof Deck	Cranes	0.09	0.03	0.23	0.02	0.03
2356						Building Insulation	Pickup Truck	2.67	0.39	0.47	0.05	0.05
2357							Air Compressor	0.02	0.01	0.04	0.00	0.00
2358						Doors and Windows	Welder	0.02	0.01	0.03	0.00	0.00
2359							Cranes	0.09	0.03	0.23	0.02	0.03
2360							Pickup Truck	2.67	0.39	0.47	0.05	0.05
2361						Industrial Doors/Overhead Doors	Cranes	0.09	0.03	0.23	0.02	0.03
2362							Pickup Truck	2.67	0.39	0.47	0.05	0.05
2363							Generator <50 HP	0.02	0.01	0.03	0.00	0.00
2364							Welder	0.02	0.01	0.03	0.00	0.00
2365								**10.17**	**1.61**	**5.97**	**0.56**	**0.69**
2366												
2367		Data										
2368	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10						
2369	Air Compressor	0.05	0.01	0.08	0.01	0.01						
2370	Bulldozer	0.16	0.05	0.54	0.05	0.04						
2371	Cement/Mortar mixers	0.02	0.00	0.04	0.00	0.00						
2372	Compactor	0.01	0.00	0.02	0.00	0.00						
2373	Cranes	0.56	0.17	1.39	0.13	0.19						
2374	Drill rigs	0.39	0.06	0.46	0.04	0.06						
2375	Excavator (small)	0.24	0.00	0.49	0.04	0.07						
2376	Generator <50 HP	0.02	0.01	0.03	0.00	0.00						
2377	Loader, Rubber-tired	0.37	0.06	0.78	0.07	0.10						
2378	Off-Highway Trucks	0.12	0.04	0.42	0.04	0.04						
2379	Pickup Truck	8.02	1.17	1.41	0.15	0.15						
2380	Tractors	0.10	0.02	0.15	0.01	0.02						
2381	Trencher	0.08	0.01	0.09	0.01	0.01						
2382	Welder	0.04	0.01	0.07	0.01	0.01						
2383	Grand Total	10.17	1.61	5.97	0.56	0.69						
2384												
2385												

Line #	**Cargo Parking Lot**									
2386	Equipment	Operating Hours	HP	LF	Usage	**Emissions Factors** (grams/HP-hr)				
2387						**CO**	**HC**	**NOx**	**SOx**	**PM10**
2388	Asphalt Paver	400	77	0.56	1	3.20	0.60	10.30	0.93	0.90
2389	Bulldozer	400	356	0.59	1	2.80	0.84	9.60	0.93	0.66
2390	Cold Planer	400	625	0.556818182	1	2.80	0.84	9.60	0.89	0.80
2391	Compactor	400	8	0.43	1	3.10	0.80	9.30	0.93	0.90
2392	Dump Truck	400	500	0.556818182	1	15.50	1.30	4.00	1.00	0.60
2393	Grader	400	147	0.54	1	3.80	1.54	9.60	0.87	1.00
2394	Loader	400	71	0.38	1	6.80	1.40	10.10	0.85	1.05
2395	Paving Equipment	400	99	0.53	1	4.60	1.01	11.01	0.93	0.90
2396	Roller	400	99	0.59	1	3.10	0.80	9.30	1.00	0.78
2397	Tractors	400	71	0.38	1	6.80	1.40	10.10	0.85	1.05
2398	Water Truck	400	325	0.556818182	1	55.00	8.00	9.70	1.00	1.00
2399										
2400	1000	used to convert grams to 1000's gram								
2401										
2402										
2403								**Emissions** (1000 g/year)		
2404					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2405					Asphalt Paver	55.19	10.35	177.65	16.04	15.52
2406					Bulldozer	235.24	70.57	806.55	78.13	55.45
2407					Cold Planer	389.77	116.93	1336.36	123.89	111.36
2408					Compactor	4.27	1.10	12.80	1.28	1.24
2409					Dump Truck	1726.14	144.77	445.45	111.36	66.82
2410					Grader	120.66	48.90	304.82	27.62	31.75
2411					Loader	73.39	15.11	109.00	9.17	11.33
2412					Paving Equipment	96.54	21.20	231.08	19.52	18.89
2413					Roller	72.43	18.69	217.29	23.36	18.22
2414					Tractors	73.39	15.11	109.00	9.17	11.33
2415					Water Truck	3981.25	579.09	702.15	72.39	72.39
2416					Total	6828.27	1041.82	4452.15	491.95	414.31
2417										
2418										
2419										
2420										
2421										

2422				**Emissions** (tons/year)		
2423	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2424	Asphalt Paver	0.06	0.01	0.20	0.02	0.02
2425	Bulldozer	0.26	0.08	0.89	0.09	0.06
2426	Cold Planer	0.43	0.13	1.47	0.14	0.12
2427	Compactor	0.00	0.00	0.01	0.00	0.00
2428	Dump Truck	1.90	0.16	0.49	0.12	0.07
2429	Grader	0.13	0.05	0.34	0.03	0.04
2430	Loader	0.08	0.02	0.12	0.01	0.01
2431	Paving Equipment	0.11	0.02	0.25	0.02	0.02
2432	Roller	0.08	0.02	0.24	0.03	0.02
2433	Tractors	0.08	0.02	0.12	0.01	0.01
2434	Water Truck	4.39	0.64	0.77	0.08	0.08
2435	Total	**7.53**	**1.15**	**4.91**	**0.54**	**0.46**
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Line #	**Cargo Apron**											
2464	**Phase**	**Equipment**	**Operating Hours**	**New Hrs**	**HP**	**LF**	**Usage**		**Emissions Factors (grams/HP-hr)**			
2465				115900				**CO**	**HC**	**NOx**	**SOx**	**PM10**
2466			Distribution of hours for representative project									
2467	Prepare the Site	Backhoe	61	83	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2468	Prepare the Site	Bulldozer	175	241	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2469	Prepare the Site	Dump Truck	503	690	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2470	Prepare the Site	Grader	23	32	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2471	Prepare the Site	Roller	23	32	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2472	Prepare the Site	Bulldozer	23	32	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2473	Prepare the Site	Grader	14	20	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2474	Prepare the Site	Water Truck	14	20	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2475	Prepare the Site	Tractors	14	20	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2476	Prepare the Site	Roller	14	20	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2477	Prepare the Site	Bulldozer	14	20	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2478	Prepare the Site	Loader, Rubber-tired	14	20	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
2479	Prepare the Site	Dump Truck	43	60	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2480	Prepare the Site	Grader	19	26	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2481	Prepare the Site	Water Truck	19	26	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2482	Prepare the Site	Tractors	19	26	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2483	Prepare the Site	Roller	19	26	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2484	Prepare the Site	Bulldozer	19	26	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2485	Prepare the Site	Loader, Rubber-tired	19	26	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
2486	Prepare the Site	Dump Truck	33	45	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2487	Prepare the Site	Grader	14	20	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2488	Prepare the Site	Roller	14	20	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
2489	Prepare the Site	Bulldozer	14	20	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2490	Prepare the Site	Dump Truck	65	89	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2491	Prepare the Site	Grader	43	59	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
2492	Drainage System	Backhoe	71	97	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2493	Drainage System	Bulldozer	48	66	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2494	Drainage System	Off-Highway Trucks	132	181	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2495	Drainage System	Bulldozer	15	20	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
2496	Drainage System	Compactor	15	20	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
2497	Drainage System	Dump Truck	47	64	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
2498	Drainage System	Backhoe	108	148	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2499	Pa vement Lighting	Trencher	25	35	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
2500	Pa vement Lighting	Compactor	25	35	8	0.43	100%	3.1	0.8	9.3	0.9	0.9

2501	Concrete Paving	Tractors	8	11	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2502	Concrete Paving	Tractors	8	11	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
2503	Concrete Paving	Off-Highway Trucks	23	32	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2504	Concrete Paving	Asphalt Paver	23	32	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
2505	Concrete Paving	Pickup Truck	3	5	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2506	Concrete Paving	Generator <50 HP	3	5	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
2507	Concrete Paving	Off-Highway Trucks	3	5	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
2508	Concrete Paving	Pickup Truck	3	5	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2509			1000	used to convert grams to 1000's gram								
2510												
2511												
2512										**Emissions** (1000 g/year)		
2513							**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2514							Backhoe	15.30	3.15	22.72	1.91	2.36
2515							Bulldozer	141.79	42.54	486.12	47.09	33.42
2516							Dump Truck	2979.73	249.91	768.96	192.24	115.34
2517							Grader	9.61	3.89	24.28	2.20	2.53
2518							Roller	5.77	1.49	17.31	1.86	1.45
2519							Bulldozer	18.74	5.62	64.24	6.22	4.42
2520							Grader	5.93	2.40	14.98	1.36	1.56
2521							Water Truck	195.65	28.46	34.51	3.56	3.56
2522							Tractors	3.61	0.74	5.36	0.45	0.56
2523							Roller	3.56	0.92	10.68	1.15	0.90
2524							Bulldozer	11.56	3.47	39.64	3.84	2.73
2525							Loader, Rubber-tired	8.92	1.56	19.13	1.60	2.40
2526							Dump Truck	257.41	21.59	66.43	16.61	9.96
2527							Grader	7.77	3.15	19.63	1.78	2.04
2528							Water Truck	256.37	37.29	45.21	4.66	4.66
2529							Tractors	4.73	0.97	7.02	0.59	0.73
2530							Roller	4.66	1.20	13.99	1.50	1.17
2531							Bulldozer	15.15	4.54	51.94	5.03	3.57
2532							Loader, Rubber-tired	11.68	2.04	25.07	2.09	3.14
2533							Dump Truck	193.06	16.19	49.82	12.46	7.47
2534							Grader	5.93	2.40	14.98	1.36	1.56
2535							Roller	3.56	0.92	10.68	1.15	0.90
2536							Bulldozer	11.56	3.47	39.64	3.84	2.73
2537							Dump Truck	386.12	32.38	99.64	24.91	14.95
2538							Backhoe	17.79	7.21	44.94	4.07	4.68
2539							Bulldozer	17.87	3.68	26.54	2.23	2.76
2540							Off-Highway Trucks	38.93	11.68	133.49	12.93	9.18
2541							Bulldozer	83.26	24.98	285.45	26.46	23.79
2542							Compactor	11.96	3.59	41.00	3.97	2.82
2543							Dump Truck	0.22	0.06	0.65	0.07	0.06
2544							Backhoe	277.89	23.31	71.71	17.93	10.76

2545	Trencher	27.19	5.60	40.39	3.40	4.20
2546	Compactor	5.46	0.92	5.99	0.56	0.86
2547	Tractors	0.37	0.10	1.11	0.11	0.11
2548	Tractors	2.10	0.43	3.12	0.26	0.32
2549	Off-Highway Trucks	2.10	0.43	3.12	0.26	0.32
2550	Asphalt Paver	14.76	4.43	50.62	4.69	4.22
2551	Pickup Truck	4.42	0.83	14.24	1.29	1.24
2552	Generator <50 HP	45.58	6.63	8.04	0.83	0.83
2553	Off-Highway Trucks	0.37	0.09	0.60	0.07	0.07
2554	Pickup Truck	2.11	0.63	7.23	0.67	0.60
2555						
2556				**Emissions** (tons/year)		
2557	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2558	Backhoe	0.02	0.00	0.03	0.00	0.00
2559	Bulldozer	0.16	0.05	0.54	0.05	0.04
2560	Dump Truck	3.28	0.28	0.85	0.21	0.13
2561	Grader	0.01	0.00	0.03	0.00	0.00
2562	Roller	0.01	0.00	0.02	0.00	0.00
2563	Bulldozer	0.02	0.01	0.07	0.01	0.00
2564	Grader	0.01	0.00	0.02	0.00	0.00
2565	Water Truck	0.22	0.03	0.04	0.00	0.00
2566	Tractors	0.00	0.00	0.01	0.00	0.00
2567	Roller	0.00	0.00	0.01	0.00	0.00
2568	Bulldozer	0.01	0.00	0.04	0.00	0.00
2569	Loader, Rubber-tired	0.01	0.00	0.02	0.00	0.00
2570	Dump Truck	0.28	0.02	0.07	0.02	0.01
2571	Grader	0.01	0.00	0.02	0.00	0.00
2572	Water Truck	0.28	0.04	0.05	0.01	0.01
2573	Tractors	0.01	0.00	0.01	0.00	0.00
2574	Roller	0.01	0.00	0.02	0.00	0.00
2575	Bulldozer	0.02	0.01	0.06	0.01	0.00
2576	Loader, Rubber-tired	0.01	0.00	0.03	0.00	0.00
2577	Dump Truck	0.21	0.02	0.05	0.01	0.01
2578	Grader	0.01	0.00	0.02	0.00	0.00
2579	Roller	0.00	0.00	0.01	0.00	0.00
2580	Bulldozer	0.01	0.00	0.04	0.00	0.00
2581	Dump Truck	0.43	0.04	0.11	0.03	0.02
2582	Backhoe	0.02	0.01	0.05	0.00	0.01
2583	Bulldozer	0.02	0.00	0.03	0.00	0.00
2584	Off-Highway Trucks	0.04	0.01	0.15	0.01	0.01
2585	Bulldozer	0.09	0.03	0.31	0.03	0.03
2586	Compactor	0.01	0.00	0.05	0.00	0.00
2587	Dump Truck	0.00	0.00	0.00	0.00	0.00
2588	Backhoe	0.31	0.03	0.08	0.02	0.01
2589	Trencher	0.03	0.01	0.04	0.00	0.00
2590	Compactor	0.01	0.00	0.01	0.00	0.00
2591	Tractors	0.00	0.00	0.00	0.00	0.00
2592	Tractors	0.00	0.00	0.00	0.00	0.00

2593	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
2594	Asphalt Paver	0.02	0.00	0.06	0.01	0.00
2595	Pickup Truck	0.00	0.00	0.02	0.00	0.00
2596	Generator <50 HP	0.05	0.01	0.01	0.00	0.00
2597	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
2598		**5.63**	**0.62**	**2.96**	**0.46**	**0.32**

2602		Data				
2603	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
2604	Asphalt Paver	0.02	0.00	0.06	0.01	0.00
2605	Backhoe	0.34	0.04	0.15	0.03	0.02
2606	Bulldozer	0.33	0.10	1.10	0.10	0.08
2607	Compactor	0.02	0.00	0.05	0.00	0.00
2608	Dump Truck	4.21	0.35	1.09	0.27	0.16
2609	Generator <50 HP	0.05	0.01	0.01	0.00	0.00
2610	Grader	0.03	0.01	0.08	0.01	0.01
2611	Loader, Rubber-tired	0.02	0.00	0.05	0.00	0.01
2612	Off-Highway Trucks	0.05	0.01	0.15	0.01	0.01
2613	Pickup Truck	0.00	0.00	0.02	0.00	0.00
2614	Roller	0.02	0.00	0.06	0.01	0.00
2615	Tractors	0.01	0.00	0.02	0.00	0.00
2616	Trencher	0.03	0.01	0.04	0.00	0.00
2617	Water Truck	0.50	0.07	0.09	0.01	0.01
2618	Grand Total	5.63	0.62	2.96	0.46	0.32

Line #	**Cargo Hangar**										
2637	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
2638							**CO**	**HC**	**NOx**	**SOx**	**PM10**
2639	Trenching for cement footings	Compactor	200	8	0.43	1	3.1	0.8	9.3	0.9	0.9
2640		Excavator (small)	200	143	0.59	1	5.2	0.1	10.8	0.9	1.4
2641		Trencher	200	27	0.64	1	9.1	1.5	10.0	0.9	1.4
2642	Trenching for utilities	Excavator (small)	200	143	0.59	1	5.2	0.1	10.8	0.9	1.4
2643		Trencher	200	27	0.64	1	9.1	1.5	10.0	0.9	1.4
2644	Erosion and Sedimentation Control	Loader, Rubber-tired	200	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2645		Tractors	200	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2646		Bulldozer	200	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2647	Driven Piles	Cranes	200	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2648		Drill rigs	200	209	0.75	1	9.2	1.4	11.0	0.9	1.4
2649		Air Compressor	200	37	0.48	1	5.0	1.2	8.0	0.9	1.0
2650	Utilities	Cranes	200	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2651		Tractors	200	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2652	Concrete Forms	Cement/Mortar mixers	200	11	0.56	1	4.6	1.0	11.0	0.9	0.9
2653		Loader, Rubber-tired	200	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2654	Reinforcing Steel	Cranes	200	194	0.43	1	4.2	1.3	10.3	0.9	1.4
2655		Off-Highway Trucks	200	658	0.25	1	2.8	0.8	9.6	0.9	0.8
2656	Structural Concrete	Cement/Mortar mixers	200	11	0.56	1	4.6	1.0	11.0	0.9	0.9
2657		Loader, Rubber-tired	200	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2658		Compactor	200	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
2659	Roof Deck	Cranes	200	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
2660	Building Insulation	Pickup Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2661		Air Compressor	200	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
2662	Doors and Windows	Welder	200	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
2663		Cranes	200	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
2664		Pickup Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2665	Industrial Doors/Overhead Doors	Cranes	200	194	0.43	100%	4.2	1.3	10.3	0.9	1.4

2666	Pickup Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
2667	Generator <50 HP	200	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
2668	Welder	200	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
2669										
2670	1000	used to convert grams to 1000's gram								
2671										
2672										
2673						**Emissions** (1000 g/year)				
2674					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2675					Trenching for cement footings	Compactor	2.13	0.55	6.40	0.64	0.62
2676						Excavator (small)	87.74	1.18	181.40	15.69	24.30
2677						Trencher	31.59	5.32	34.63	3.21	4.98
2678					Trenching for utilities	Excavator (small)	87.74	1.18	181.40	15.69	24.30
2679						Trencher	31.59	5.32	34.63	3.21	4.98
2680					Erosion and Sedimentation Control	Loader, Rubber-tired	90.72	15.88	194.67	16.25	24.38
2681						Tractors	36.69	7.55	54.50	4.59	5.67
2682						Bulldozer	117.62	35.29	403.28	39.07	27.73
2683					Driven Piles	Cranes	70.07	21.02	171.85	15.52	24.02
2684						Drill rigs	288.42	44.20	345.16	29.16	45.14
2685						Air Compressor	17.76	4.26	28.42	3.30	3.55
2686					Utilities	Cranes	70.07	21.02	171.85	15.52	24.02
2687						Tractors	36.69	7.55	54.50	4.59	5.67
2688					Concrete Forms	Cement/Mortar mixers	5.67	1.24	13.56	1.15	1.11
2689						Loader, Rubber-tired	90.72	15.88	194.67	16.25	24.38
2690					Reinforcing Steel	Cranes	70.07	21.02	171.85	15.52	24.02
2691						Off-Highway Trucks	92.12	27.64	315.84	29.28	26.32
2692					Structural Concrete	Cement/Mortar mixers	5.67	1.24	13.56	1.15	1.11
2693						Loader, Rubber-tired	90.72	15.88	194.67	16.25	24.38
2694						Compactor	2.13	0.55	6.40	0.64	0.62
2695					Roof Deck	Cranes	70.07	21.02	171.85	15.52	24.02
2696					Building Insulation	Pickup Truck	1990.63	289.55	351.07	36.19	36.19
2697						Air Compressor	17.76	4.26	28.42	3.30	3.55
2698					Doors and Windows	Welder	15.75	3.78	25.20	2.93	3.15
2699						Cranes	70.07	21.02	171.85	15.52	24.02
2700						Pickup Truck	1990.63	289.55	351.07	36.19	36.19
2701					Industrial Doors/Overhead Doors	Cranes	70.07	21.02	171.85	15.52	24.02
2702						Pickup Truck	1990.63	289.55	351.07	36.19	36.19
2703						Generator <50 HP	16.28	3.91	26.05	3.03	3.26
2704						Welder	15.75	3.78	25.20	2.93	3.15
2705											
2706									**Emissions** (tons/year)		
2707						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2708					Trenching for cement footings	Compactor	0.00	0.00	0.01	0.00	0.00
2709						Excavator (small)	0.10	0.00	0.20	0.02	0.03
2710						Trencher	0.03	0.01	0.04	0.00	0.01
2711					Trenching for utilities	Excavator (small)	0.10	0.00	0.20	0.02	0.03

2712		Trencher	0.03	0.01	0.04	0.00	0.01
2713	Erosion and Sedimentation Control	Loader, Rubber-tired	0.10	0.02	0.21	0.02	0.03
2714		Tractors	0.04	0.01	0.06	0.01	0.01
2715		Bulldozer	0.13	0.04	0.44	0.04	0.03
2716	Driven Piles	Cranes	0.08	0.02	0.19	0.02	0.03
2717		Drill rigs	0.32	0.05	0.38	0.03	0.05
2718		Air Compressor	0.02	0.00	0.03	0.00	0.00
2719	Utilities	Cranes	0.08	0.02	0.19	0.02	0.03
2720		Tractors	0.04	0.01	0.06	0.01	0.01
2721	Concrete Forms	Cement/Mortar mixers	0.01	0.00	0.01	0.00	0.00
2722		Loader, Rubber-tired	0.10	0.02	0.21	0.02	0.03
2723	Reinforcing Steel	Cranes	0.08	0.02	0.19	0.02	0.03
2724		Off-Highway Trucks	0.10	0.03	0.35	0.03	0.03
2725	Structural Concrete	Cement/Mortar mixers	0.01	0.00	0.01	0.00	0.00
2726		Loader, Rubber-tired	0.10	0.02	0.21	0.02	0.03
2727		Compactor	0.00	0.00	0.01	0.00	0.00
2728	Roof Deck	Cranes	0.08	0.02	0.19	0.02	0.03
2729	Building Insulation	Pickup Truck	2.19	0.32	0.39	0.04	0.04
2730		Air Compressor	0.02	0.00	0.03	0.00	0.00
2731	Doors and Windows	Welder	0.02	0.00	0.03	0.00	0.00
2732		Cranes	0.08	0.02	0.19	0.02	0.03
2733		Pickup Truck	2.19	0.32	0.39	0.04	0.04
2734	Industrial Doors/Overhead Doors	Cranes	0.08	0.02	0.19	0.02	0.03
2735		Pickup Truck	2.19	0.32	0.39	0.04	0.04
2736		Generator <50 HP	0.02	0.00	0.03	0.00	0.00
2737		Welder	0.02	0.00	0.03	0.00	0.00
2738			**8.35**	**1.32**	**4.90**	**0.46**	**0.57**
2739							

2740		Data			
2741	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx
2742	Air Compressor	0.04	0.01	0.06	0.01
2743	Bulldozer	0.13	0.04	0.44	0.04
2744	Cement/Mortar mixers	0.01	0.00	0.03	0.00
2745	Compactor	0.00	0.00	0.01	0.00
2746	Cranes	0.46	0.14	1.14	0.10
2747	Drill rigs	0.32	0.05	0.38	0.03
2748	Excavator (small)	0.19	0.00	0.40	0.03
2749	Generator <50 HP	0.02	0.00	0.03	0.00
2750	Loader, Rubber-tired	0.30	0.05	0.64	0.05
2751	Off-Highway Trucks	0.10	0.03	0.35	0.03
2752	Pickup Truck	6.58	0.96	1.16	0.12
2753	Tractors	0.08	0.02	0.12	0.01
2754	Trencher	0.07	0.01	0.08	0.01
2755	Welder	0.03	0.01	0.06	0.01
2756	Grand Total	8.35	1.32	4.90	0.46

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Line #	Terminal Parking Lot									
2781	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
2782						**CO**	**HC**	**NOx**	**SOx**	**PM10**
2783	Asphalt Paver	821.6	77	0.56	1	3.20	0.60	10.30	0.93	0.90
2784	Bulldozer	821.6	356	0.59	1	2.80	0.84	9.60	0.93	0.66
2785	Cold Planer	821.6	625	0.5568182	1	2.80	0.84	9.60	0.89	0.80
2786	Compactor	821.6	8	0.43	1	3.10	0.80	9.30	0.93	0.90
2787	Dump Truck	821.6	500	0.5568182	1	15.50	1.30	4.00	1.00	0.60
2788	Grader	821.6	147	0.54	1	3.80	1.54	9.60	0.87	1.00
2789	Loader	821.6	71	0.38	1	6.80	1.40	10.10	0.85	1.05
2790	Paving Equipment	821.6	99	0.53	1	4.60	1.01	11.01	0.93	0.90
2791	Roller	821.6	99	0.59	1	3.10	0.80	9.30	1.00	0.78
2792	Tractors	821.6	71	0.38	1	6.80	1.40	10.10	0.85	1.05
2793	Water Truck	821.6	325	0.5568182	1	55.00	8.00	9.70	1.00	1.00
2794										
2795	1000 used to convert grams to 1000's gram									
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2798								**Emissions** (1000 g/year)		
2799					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2800					Asphalt Paver	113.37	21.26	364.90	32.95	31.88
2801					Bulldozer	483.19	144.96	1656.66	160.49	113.90
2802					Cold Planer	800.59	240.18	2744.89	254.47	228.74
2803					Compactor	8.76	2.26	26.28	2.63	2.54
2804					Dump Truck	3545.48	297.36	914.96	228.74	137.24
2805					Grader	247.83	100.44	626.10	56.74	65.22
2806					Loader	150.73	31.03	223.88	18.84	23.28
2807					Paving Equipment	198.30	43.54	474.63	40.09	38.80
2808					Roller	148.77	38.39	446.30	47.99	37.43
2809					Tractors	150.73	31.03	223.88	18.84	23.28
2810					Water Truck	8177.49	1189.45	1442.21	148.68	148.68
2811					Total	14025.26	2139.90	9144.72	1010.47	850.99
2812										
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2821				**Emissions** (tons/year)		
2822	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2823	Asphalt Paver	0.12	0.02	0.40	0.04	0.04
2824	Bulldozer	0.53	0.16	1.83	0.18	0.13
2825	Cold Planer	0.88	0.26	3.03	0.28	0.25
2826	Compactor	0.01	0.00	0.03	0.00	0.00
2827	Dump Truck	3.91	0.33	1.01	0.25	0.15
2828	Grader	0.27	0.11	0.69	0.06	0.07
2829	Loader	0.17	0.03	0.25	0.02	0.03
2830	Paving Equipment	0.22	0.05	0.52	0.04	0.04
2831	Roller	0.16	0.04	0.49	0.05	0.04
2832	Tractors	0.17	0.03	0.25	0.02	0.03
2833	Water Truck	9.01	1.31	1.59	0.16	0.16
2834	Total	**15.46**	**2.36**	**10.08**	**1.11**	**0.94**
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Line #	**Terminal Apron**											
2863	Phase	Equipment	Operating Hours	New Hrs	HP	LF	Usage	**Emissions Factors** (grams/HP-hr)				
2864				335800				**CO**	**HC**	**NOx**	**SOx**	**PM10**
2865			Distribution of hours for representative project									
2866	Prepare the Site	Backhoe	60.69078947	241.5640835	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2867	Prepare the Site	Bulldozer	175.4934211	698.506442	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2868	Prepare the Site	Dump Truck	502.6315789	2000.59577	500	0.556818182	1	15.5	1.3	4.0	1.0	0.6
2869	Prepare the Site	Grader	23.19078947	92.30497499	147	0.54	1	3.8	1.5	9.6	0.9	1.0
2870	Prepare the Site	Roller	23.19078947	92.30497499	99	0.59	1	3.1	0.8	9.3	1.0	0.8
2871	Prepare the Site	Bulldozer	23.19078947	92.30497499	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2872	Prepare the Site	Grader	14.30921053	56.95413351	147	0.54	1	3.8	1.5	9.6	0.9	1.0
2873	Prepare the Site	Water Truck	14.30921053	56.95413351	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2874	Prepare the Site	Tractors	14.30921053	56.95413351	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2875	Prepare the Site	Roller	14.30921053	56.95413351	99	0.59	1	3.1	0.8	9.3	1.0	0.8
2876	Prepare the Site	Bulldozer	14.30921053	56.95413351	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2877	Prepare the Site	Loader, Rubber-tired	14.30921053	56.95413351	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2878	Prepare the Site	Dump Truck	43.42105263	172.8263362	500	0.556818182	1	15.5	1.3	4.0	1.0	0.6
2879	Prepare the Site	Grader	18.75	74.62955425	147	0.54	1	3.8	1.5	9.6	0.9	1.0
2880	Prepare the Site	Water Truck	18.75	74.62955425	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2881	Prepare the Site	Tractors	18.75	74.62955425	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2882	Prepare the Site	Roller	18.75	74.62955425	99	0.59	1	3.1	0.8	9.3	1.0	0.8
2883	Prepare the Site	Bulldozer	18.75	74.62955425	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2884	Prepare the Site	Loader, Rubber-tired	18.75	74.62955425	175	0.54	1	4.8	0.8	10.3	0.9	1.3
2885	Prepare the Site	Dump Truck	32.56578947	129.6197521	500	0.556818182	1	15.5	1.3	4.0	1.0	0.6
2886	Prepare the Site	Grader	14.30921053	56.95413351	147	0.54	1	3.8	1.5	9.6	0.9	1.0
2887	Prepare the Site	Roller	14.30921053	56.95413351	99	0.59	1	3.1	0.8	9.3	1.0	0.8
2888	Prepare the Site	Bulldozer	14.30921053	56.95413351	356	0.59	1	2.8	0.8	9.6	0.9	0.7

2889	Prepare the Site	Dump Truck	65.13157895	259.2395042	500	0.556818182	1	15.5	1.3	4.0	1.0	0.6
2890	Prepare the Site	Grader	42.92763158	170.8624005	147	0.54	1	3.8	1.5	9.6	0.9	1.0
2891	Drainage System	Backhoe	70.88815789	282.1520867	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2892	Drainage System	Bulldozer	48.19078947	191.8110473	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2893	Drainage System	Off-Highway Trucks	131.5789474	523.7161702	658	0.25	1	2.8	0.8	9.6	0.9	0.8
2894	Drainage System	Bulldozer	14.80263158	58.91806914	356	0.59	1	2.8	0.8	9.6	0.9	0.7
2895	Drainage System	Compactor	14.80263158	58.91806914	8	0.43	1	3.1	0.8	9.3	0.9	0.9
2896	Drainage System	Dump Truck	46.875	186.5738856	500	0.556818182	1	15.5	1.3	4.0	1.0	0.6
2897	Drainage System	Backhoe	107.8947368	429.4472595	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2898	Pa vement Lighting	Trencher	25.16447368	100.1607175	27	0.64	1	9.1	1.5	10.0	0.9	1.4
2899	Pa vement Lighting	Compactor	25.16447368	100.1607175	8	0.43	1	3.1	0.8	9.3	0.9	0.9
2900	Concrete Paving	Tractors	8.333333333	33.16869078	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2901	Concrete Paving	Tractors	8.333333333	33.16869078	71	0.38	1	6.8	1.4	10.1	0.9	1.1
2902	Concrete Paving	Off-Highway Trucks	23.33333333	92.87233418	658	0.25	1	2.8	0.8	9.6	0.9	0.8
2903	Concrete Paving	Asphalt Paver	23.33333333	92.87233418	77	0.56	1	3.2	0.6	10.3	0.9	0.9
2904	Concrete Paving	Pickup Truck	3.333333333	13.26747631	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2905	Concrete Paving	Generator <50 HP	3.333333333	13.26747631	22	0.74	1	5.0	1.2	8.0	0.9	1.0
2906	Concrete Paving	Off-Highway Trucks	3.333333333	13.26747631	658	0.25	1	2.8	0.8	9.6	0.9	0.8
2907	Concrete Paving	Pickup Truck	3.333333333	13.26747631	325	0.556818182	1	55.0	8.0	9.7	1.0	1.0
2908			1000	used to convert grams to 1000's gram								
2909												
2910												
2911									**Emissions** (1000 g/year)			
2912							**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2913							Backhoe	44.32	9.12	65.83	5.54	6.84
2914							Bulldozer	410.80	123.24	1408.46	136.44	96.83
2915							Dump Truck	8633.25	724.08	2227.94	556.98	334.19
2916							Grader	27.84	11.28	70.34	6.37	7.33
2917							Roller	16.71	4.31	50.14	5.39	4.21
2918							Bulldozer	54.29	16.29	186.12	18.03	12.80
2919							Grader	17.18	6.96	43.40	3.93	4.52
2920							Water Truck	566.87	82.45	99.98	10.31	10.31
2921							Tractors	10.45	2.15	15.52	1.31	1.61
2922							Roller	10.31	2.66	30.94	3.33	2.59

2923	Bulldozer	33.50	10.05	114.84	11.13	7.90
2924	Loader, Rubber-tired	25.83	4.52	55.44	4.63	6.94
2925	Dump Truck	745.80	62.55	192.47	48.12	28.87
2926	Grader	22.51	9.12	56.87	5.15	5.92
2927	Water Truck	742.80	108.04	131.00	13.51	13.51
2928	Tractors	13.69	2.82	20.34	1.71	2.11
2929	Roller	13.51	3.49	40.54	4.36	3.40
2930	Bulldozer	43.89	13.17	150.48	14.58	10.35
2931	Loader, Rubber-tired	33.85	5.92	72.64	6.07	9.10
2932	Dump Truck	559.35	46.91	144.35	36.09	21.65
2933	Grader	17.18	6.96	43.40	3.93	4.52
2934	Roller	10.31	2.66	30.94	3.33	2.59
2935	Bulldozer	33.50	10.05	114.84	11.13	7.90
2936	Dump Truck	1118.71	93.83	288.70	72.17	43.30
2937	Backhoe	51.54	20.89	130.21	11.80	13.56
2938	Bulldozer	51.76	10.66	76.89	6.47	7.99
2939	Off-Highway Trucks	112.81	33.84	386.76	37.47	26.59
2940	Bulldozer	241.22	72.37	827.05	76.67	68.92
2941	Compactor	34.65	10.40	118.80	11.51	8.17
2942	Dump Truck	0.63	0.16	1.88	0.19	0.18
2943	Backhoe	805.13	67.53	207.78	51.94	31.17
2944	Trencher	78.79	16.22	117.02	9.85	12.17
2945	Compactor	15.82	2.67	17.34	1.61	2.49
2946	Tractors	1.07	0.28	3.20	0.32	0.31
2947	Tractors	6.09	1.25	9.04	0.76	0.94
2948	Off-Highway Trucks	6.09	1.25	9.04	0.76	0.94
2949	Asphalt Paver	42.78	12.83	146.66	13.60	12.22
2950	Pickup Truck	12.81	2.40	41.25	3.72	3.60
2951	Generator <50 HP	132.05	19.21	23.29	2.40	2.40
2952	Off-Highway Trucks	1.08	0.26	1.73	0.20	0.22
2953	Pickup Truck	6.11	1.83	20.95	1.94	1.75
2954						
2955				**Emissions** (tons/year)		
2956	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
2957	Backhoe	0.05	0.01	0.07	0.01	0.01
2958	Bulldozer	0.45	0.14	1.55	0.15	0.11
2959	Dump Truck	9.52	0.80	2.46	0.61	0.37
2960	Grader	0.03	0.01	0.08	0.01	0.01
2961	Roller	0.02	0.00	0.06	0.01	0.00
2962	Bulldozer	0.06	0.02	0.21	0.02	0.01
2963	Grader	0.02	0.01	0.05	0.00	0.00
2964	Water Truck	0.62	0.09	0.11	0.01	0.01
2965	Tractors	0.01	0.00	0.02	0.00	0.00
2966	Roller	0.01	0.00	0.03	0.00	0.00
2967	Bulldozer	0.04	0.01	0.13	0.01	0.01
2968	Loader, Rubber-tired	0.03	0.00	0.06	0.01	0.01
2969	Dump Truck	0.82	0.07	0.21	0.05	0.03
2970	Grader	0.02	0.01	0.06	0.01	0.01
2971	Water Truck	0.82	0.12	0.14	0.01	0.01
2972	Tractors	0.02	0.00	0.02	0.00	0.00
2973	Roller	0.01	0.00	0.04	0.00	0.00
2974	Bulldozer	0.05	0.01	0.17	0.02	0.01
2975	Loader, Rubber-tired	0.04	0.01	0.08	0.01	0.01
2976	Dump Truck	0.62	0.05	0.16	0.04	0.02
2977	Grader	0.02	0.01	0.05	0.00	0.00
2978	Roller	0.01	0.00	0.03	0.00	0.00

2979	Bulldozer	0.04	0.01	0.13	0.01	0.01
2980	Dump Truck	1.23	0.10	0.32	0.08	0.05
2981	Backhoe	0.06	0.02	0.14	0.01	0.01
2982	Bulldozer	0.06	0.01	0.08	0.01	0.01
2983	Off-Highway Trucks	0.12	0.04	0.43	0.04	0.03
2984	Bulldozer	0.27	0.08	0.91	0.08	0.08
2985	Compactor	0.04	0.01	0.13	0.01	0.01
2986	Dump Truck	0.00	0.00	0.00	0.00	0.00
2987	Backhoe	0.89	0.07	0.23	0.06	0.03
2988	Trencher	0.09	0.02	0.13	0.01	0.01
2989	Compactor	0.02	0.00	0.02	0.00	0.00
2990	Tractors	0.00	0.00	0.00	0.00	0.00
2991	Tractors	0.01	0.00	0.01	0.00	0.00
2992	Off-Highway Trucks	0.01	0.00	0.01	0.00	0.00
2993	Asphalt Paver	0.05	0.01	0.16	0.01	0.01
2994	Pickup Truck	0.01	0.00	0.05	0.00	0.00
2995	Generator <50 HP	0.15	0.02	0.03	0.00	0.00
2996	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00
2997		**16.32**	**1.80**	**8.57**	**1.34**	**0.93**
2998						
2999						
3000	Data					

3001	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
3002	Asphalt Paver	0.0472	0.0141	0.1617	0.0150	0.0135
3003	Backhoe	0.9932	0.1075	0.4451	0.0764	0.0568
3004	Bulldozer	0.9579	0.2820	3.1732	0.3025	0.2344
3005	Compactor	0.0556	0.0144	0.1501	0.0145	0.0118
3006	Dump Truck	12.1891	1.0224	3.1475	0.7866	0.4720
3007	Generator <50 HP	0.1456	0.0212	0.0257	0.0026	0.0026
3008	Grader	0.0934	0.0378	0.2359	0.0214	0.0246
3009	Loader, Rubber-tired	0.0658	0.0115	0.1412	0.0118	0.0177
3010	Off-Highway Trucks	0.1322	0.0390	0.4382	0.0424	0.0306
3011	Pickup Truck	0.0141	0.0026	0.0455	0.0041	0.0040
3012	Roller	0.0561	0.0145	0.1682	0.0181	0.0141
3013	Tractors	0.0345	0.0072	0.0530	0.0045	0.0055
3014	Trencher	0.0868	0.0179	0.1290	0.0109	0.0134
3015	Water Truck	1.4437	0.2100	0.2546	0.0262	0.0262
3016	Grand Total	16.3151	1.8021	8.5688	1.3369	0.9272
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Line #	**Terminal Building**										
3028	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3029							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3030	Trenching for cement footings	Compactor	1492	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3031		Excavator (small)	1492	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3032		Trencher	1492	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3033	Trenching for utilities	Excavator (small)	1492	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3034		Trencher	1492	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3035	Erosion and Sedimentation Control	Loader, Rubber-tired	1492	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3036		Tractors	1492	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3037		Bulldozer	1492	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3038	Driven Piles	Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3039		Drill rigs	1492	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
3040		Air Compressor	1492	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3041	Utilities	Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3042		Tractors	1492	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3043	Concrete Forms	Cement/Mortar mixers	1492	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3044		Loader, Rubber-tired	1492	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3045	Reinforcing Steel	Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3046		Off-Highway Trucks	1492	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3047	Structural Concrete	Cement/Mortar mixers	1492	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3048		Loader, Rubber-tired	1492	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3049		Compactor	1492	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3050	Roof Deck	Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3051	Building Insulation	Pickup Truck	1492	325	0.55682	100%	55.0	8.0	9.7	1.0	1.0
3052		Air Compressor	1492	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3053	Doors and Windows	Welder	1492	35	0.45	100%	5.0	1.2	8.0	0.9	1.0

3054		Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3055		Pickup Truck	1492	325	0.55682	100%	55.0	8.0	9.7	1.0	1.0
3056	Industrial Doors/Overhead Doors	Cranes	1492	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3057		Pickup Truck	1492	325	0.55682	100%	55.0	8.0	9.7	1.0	1.0
3058		Generator <50 HP	1492	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
3059		Welder	1492	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
3060											
3061		1000	used to convert grams to 1000's gram								
3062											
3063											
3064									**Emissions** (1000 g/year)		
3065						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3066			Trenching for cement footings			Compactor	15.91	4.11	47.73	4.77	4.62
3067						Excavator (small)	654.60	8.81	1353.26	117.07	181.27
3068						Trencher	235.65	39.71	258.34	23.98	37.13
3069			Trenching for utilities			Excavator (small)	654.60	8.81	1353.26	117.07	181.27
3070						Trencher	235.65	39.71	258.34	23.98	37.13
3071			Erosion and Sedimentation Control			Loader, Rubber-tired	676.80	118.44	1452.29	121.26	181.89
3072						Tractors	273.74	56.36	406.58	34.22	42.27
3073						Bulldozer	877.50	263.25	3008.56	291.45	206.84
3074			Driven Piles			Cranes	522.76	156.83	1282.02	115.75	179.23
3075						Drill rigs	2151.70	329.77	2575.02	217.51	336.79
3076						Air Compressor	132.49	31.80	211.99	24.64	26.50
3077			Utilities			Cranes	522.76	156.83	1282.02	115.75	179.23
3078						Tractors	273.74	56.36	406.58	34.22	42.27
3079			Concrete Forms			Cement/Mortar mixers	42.28	9.28	101.19	8.55	8.27
3080						Loader, Rubber-tired	676.80	118.44	1452.29	121.26	181.89
3081			Reinforcing Steel			Cranes	522.76	156.83	1282.02	115.75	179.23
3082						Off-Highway Trucks	687.24	206.17	2356.26	218.44	196.35
3083			Structural Concrete			Cement/Mortar mixers	42.28	9.28	101.19	8.55	8.27

3084		Loader, Rubber-tired	676.80	118.44	1452.29	121.26	181.89
3085		Compactor	15.91	4.11	47.73	4.77	4.62
3086	Roof Deck	Cranes	522.76	156.83	1282.02	115.75	179.23
3087	Building Insulation	Pickup Truck	14850.64	2160.09	2619.11	270.01	270.01
3088		Air Compressor	132.49	31.80	211.99	24.64	26.50
3089	Doors and Windows	Welder	117.50	28.20	188.00	21.85	23.50
3090		Cranes	522.76	156.83	1282.02	115.75	179.23
3091		Pickup Truck	14850.64	2160.09	2619.11	270.01	270.01
3092	Industrial Doors/Overhead Doors	Cranes	522.76	156.83	1282.02	115.75	179.23
3093		Pickup Truck	14850.64	2160.09	2619.11	270.01	270.01
3094		Generator <50 HP	121.45	29.15	194.33	22.59	24.29
3095		Welder	117.50	28.20	188.00	21.85	23.50
3096							
3097					**Emissions** (tons/year)		
3098		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3099	Trenching for cement footings	Compactor	0.02	0.00	0.05	0.01	0.01
3100		Excavator (small)	0.72	0.01	1.49	0.13	0.20
3101		Trencher	0.26	0.04	0.28	0.03	0.04
3102	Trenching for utilities	Excavator (small)	0.72	0.01	1.49	0.13	0.20
3103		Trencher	0.26	0.04	0.28	0.03	0.04
3104	Erosion and Sedimentation Control	Loader, Rubber-tired	0.75	0.13	1.60	0.13	0.20
3105		Tractors	0.30	0.06	0.45	0.04	0.05
3106		Bulldozer	0.97	0.29	3.32	0.32	0.23
3107	Driven Piles	Cranes	0.58	0.17	1.41	0.13	0.20
3108		Drill rigs	2.37	0.36	2.84	0.24	0.37
3109		Air Compressor	0.15	0.04	0.23	0.03	0.03
3110	Utilities	Cranes	0.58	0.17	1.41	0.13	0.20
3111		Tractors	0.30	0.06	0.45	0.04	0.05
3112	Concrete Forms	Cement/Mortar mixers	0.05	0.01	0.11	0.01	0.01
3113		Loader, Rubber-tired	0.75	0.13	1.60	0.13	0.20

3114	Reinforcing Steel	Cranes	0.58	0.17	1.41	0.13	0.20
3115		Off-Highway Trucks	0.76	0.23	2.60	0.24	0.22
3116	Structural Concrete	Cement/Mortar mixers	0.05	0.01	0.11	0.01	0.01
3117		Loader, Rubber-tired	0.75	0.13	1.60	0.13	0.20
3118		Compactor	0.02	0.00	0.05	0.01	0.01
3119	Roof Deck	Cranes	0.58	0.17	1.41	0.13	0.20
3120	Building Insulation	Pickup Truck	16.37	2.38	2.89	0.30	0.30
3121		Air Compressor	0.15	0.04	0.23	0.03	0.03
3122							
3123							
3124							
3125	Doors and Windows	Welder	0.13	0.03	0.21	0.02	0.03
3126		Cranes	0.58	0.17	1.41	0.13	0.20
3127		Pickup Truck	16.37	2.38	2.89	0.30	0.30
3128	Industrial Doors/Overhead Doors	Cranes	0.58	0.17	1.41	0.13	0.20
3129		Pickup Truck	16.37	2.38	2.89	0.30	0.30
3130		Generator <50 HP	0.13	0.03	0.21	0.02	0.03
3131		Welder	0.13	0.03	0.21	0.02	0.03
3132			**62.28**	**9.88**	**36.57**	**3.40**	**4.24**
3133							

3134		Data				
3135	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
3136	Air Compressor	0.29	0.07	0.47	0.05	0.06
3137	Bulldozer	0.97	0.29	3.32	0.32	0.23
3138	Cement/Mortar mixers	0.09	0.02	0.22	0.02	0.02
3139	Compactor	0.04	0.01	0.11	0.01	0.01
3140	Cranes	3.46	1.04	8.48	0.77	1.19
3141	Drill rigs	2.37	0.36	2.84	0.24	0.37
3142	Excavator (small)	1.44	0.02	2.98	0.26	0.40
3143	Generator <50 HP	0.13	0.03	0.21	0.02	0.03
3144	Loader, Rubber-tired	2.24	0.39	4.80	0.40	0.60
3145	Off-Highway Trucks	0.76	0.23	2.60	0.24	0.22
3146	Pickup Truck	49.11	7.14	8.66	0.89	0.89

3147	Tractors	0.60	0.12	0.90	0.08	0.09	
3148	Trencher	0.52	0.09	0.57	0.05	0.08	
3149	Welder	0.26	0.06	0.41	0.05	0.05	
3150	Grand Total	62.28	9.88	36.57	3.40	4.24	
3151							
3152							
3153							
3154							
3155							
3156							
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Line #	Maintenance Facility										
3177	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3178							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3179	Trenching for cement footings	Compactor	533	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3180		Excavator (small)	533	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3181		Trencher	533	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3182	Trenching for utilities	Excavator (small)	533	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3183		Trencher	533	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3184	Hauling excavated materials	Tractors	533	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3185		Dump Truck	533	500	0.5568182	100%	15.5	1.3	4.0	1.0	0.6
3186	Erosion and Sedimentation Control	Loader, Rubber-tired	533	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3187		Tractors	533	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3188		Bulldozer	533	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3189	Driven Piles	Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3190		Drill rigs	533	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
3191		Air Compressor	533	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3192	Utilities	Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3193		Tractors	533	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3194	Concrete Forms	Cement/Mortar mixers	533	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3195		Loader, Rubber-tired	533	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3196	Reinforcing Steel	Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3197		Off-Highway Trucks	533	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3198	Structural Concrete	Cement/Mortar mixers	533	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3199		Loader, Rubber-tired	533	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3200		Compactor	533	8	0.43	100%	3.1	0.8	9.3	0.9	0.9

3201	Roof Deck	Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3202	Building Insulation	Pickup Truck	533	325	0.5568182	100%	55.0	8.0	9.7	1.0	1.0
3203		Air Compressor	533	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3204	Doors and Windows	Welder	533	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
3205		Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3206		Pickup Truck	533	325	0.5568182	100%	55.0	8.0	9.7	1.0	1.0
3207	Industrial Doors/Overhead Doors	Cranes	533	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3208		Pickup Truck	533	325	0.5568182	100%	55.0	8.0	9.7	1.0	1.0
3209		Generator <50 HP	533	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
3210		Welder	533	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
3211											
3212		1000	used to convert grams to 1000's gram								
3213											
3214											
3215									**Emissions** (1000 g/year)		
3216						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3217					Trenching for cement footings	Compactor	5.69	1.47	17.07	1.71	1.65
3218						Excavator (small)	234.05	3.15	483.86	41.86	64.81
3219						Trencher	84.26	14.20	92.37	8.57	13.27
3220					Trenching for utilities	Excavator (small)	234.05	3.15	483.86	41.86	64.81
3221						Trencher	84.26	14.20	92.37	8.57	13.27
3222					Hauling excavated materials	Tractors	97.88	20.15	145.37	12.23	15.11
3223						Dump Truck	2302.17	193.09	594.11	148.53	89.12
3224					Erosion and Sedimentation Control	Loader, Rubber-tired	241.99	42.35	519.27	43.36	65.03
3225						Tractors	97.88	20.15	145.37	12.23	15.11
3226						Bulldozer	313.75	94.12	1075.71	104.21	73.96
3227					Driven Piles	Cranes	186.91	56.07	458.39	41.39	64.08
3228						Drill rigs	769.34	117.91	920.70	77.77	120.42
3229						Air Compressor	47.37	11.37	75.80	8.81	9.47
3230					Utilities	Cranes	186.91	56.07	458.39	41.39	64.08
3231						Tractors	97.88	20.15	145.37	12.23	15.11
3232					Concrete Forms	Cement/Mortar mixers	15.12	3.32	36.18	3.06	2.96
3233						Loader, Rubber-tired	241.99	42.35	519.27	43.36	65.03

3234	Reinforcing Steel	Cranes	186.91	56.07	458.39	41.39	64.08
3235		Off-Highway Trucks	245.72	73.72	842.48	78.11	70.21
3236	Structural Concrete	Cement/Mortar mixers	15.12	3.32	36.18	3.06	2.96
3237		Loader, Rubber-tired	241.99	42.35	519.27	43.36	65.03
3238		Compactor	5.69	1.47	17.07	1.71	1.65
3239	Roof Deck	Cranes	186.91	56.07	458.39	41.39	64.08
3240	Building Insulation	Pickup Truck	5309.85	772.34	936.47	96.54	96.54
3241		Air Compressor	47.37	11.37	75.80	8.81	9.47
3242	Doors and Windows	Welder	42.01	10.08	67.22	7.81	8.40
3243		Cranes	186.91	56.07	458.39	41.39	64.08
3244		Pickup Truck	5309.85	772.34	936.47	96.54	96.54
3245	Industrial Doors/Overhead Doors	Cranes	186.91	56.07	458.39	41.39	64.08
3246		Pickup Truck	5309.85	772.34	936.47	96.54	96.54
3247		Generator <50 HP	43.43	10.42	69.48	8.08	8.69
3248		Welder	42.01	10.08	67.22	7.81	8.40
3249							
3250					**Emissions** (tons/year)		
3251		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3252	Trenching for cement footings	Compactor	0.01	0.00	0.02	0.00	0.00
3253		Excavator (small)	0.26	0.00	0.53	0.05	0.07
3254		Trencher	0.09	0.02	0.10	0.01	0.01
3255	Trenching for utilities	Excavator (small)	0.26	0.00	0.53	0.05	0.07
3256		Trencher	0.09	0.02	0.10	0.01	0.01
3257	Hauling excavated materials	Tractors	0.11	0.02	0.16	0.01	0.02
3258		Dump Truck	2.54	0.21	0.65	0.16	0.10
3259	Erosion and Sedimentation Control	Loader, Rubber-tired	0.27	0.05	0.57	0.05	0.07
3260		Tractors	0.11	0.02	0.16	0.01	0.02
3261		Bulldozer	0.35	0.10	1.19	0.11	0.08
3262	Driven Piles	Cranes	0.21	0.06	0.51	0.05	0.07
3263		Drill rigs	0.85	0.13	1.01	0.09	0.13
3264		Air Compressor	0.05	0.01	0.08	0.01	0.01
3265	Utilities	Cranes	0.21	0.06	0.51	0.05	0.07
3266		Tractors	0.11	0.02	0.16	0.01	0.02
3267	Concrete Forms	Cement/Mortar mixers	0.02	0.00	0.04	0.00	0.00

3268						Loader, Rubber-tired	0.27	0.05	0.57	0.05	0.07
3269					Reinforcing Steel	Cranes	0.21	0.06	0.51	0.05	0.07
3270						Off-Highway Trucks	0.27	0.08	0.93	0.09	0.08
3271					Structural Concrete	Cement/Mortar mixers	0.02	0.00	0.04	0.00	0.00
3272						Loader, Rubber-tired	0.27	0.05	0.57	0.05	0.07
3273						Compactor	0.01	0.00	0.02	0.00	0.00
3274					Roof Deck	Cranes	0.21	0.06	0.51	0.05	0.07
3275					Building Insulation	Pickup Truck	5.85	0.85	1.03	0.11	0.11
3276						Air Compressor	0.05	0.01	0.08	0.01	0.01
3277					Doors and Windows	Welder	0.05	0.01	0.07	0.01	0.01
3278						Cranes	0.21	0.06	0.51	0.05	0.07
3279						Pickup Truck	5.85	0.85	1.03	0.11	0.11
3280				Industrial Doors/Overhead Doors		Cranes	0.21	0.06	0.51	0.05	0.07
3281						Pickup Truck	5.85	0.85	1.03	0.11	0.11
3282						Generator <50 HP	0.05	0.01	0.08	0.01	0.01
3283						Welder	0.05	0.01	0.07	0.01	0.01
3284		Data					**24.91**	**3.77**	**13.89**	**1.39**	**1.63**
3285	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10					
3286	Air Compressor	0.10	0.03	0.17	0.02	0.02					
3287	Bulldozer	0.35	0.10	1.19	0.11	0.08					
3288	Cement/Mortar mixers	0.03	0.01	0.08	0.01	0.01					
3289	Compactor	0.01	0.00	0.04	0.00	0.00					
3290	Cranes	1.24	0.37	3.03	0.27	0.42					
3291	Drill rigs	0.85	0.13	1.01	0.09	0.13					
3292	Dump Truck	2.54	0.21	0.65	0.16	0.10					
3293	Excavator (small)	0.52	0.01	1.07	0.09	0.14					
3294	Generator <50 HP	0.05	0.01	0.08	0.01	0.01					
3295	Loader, Rubber-tired	0.80	0.14	1.72	0.14	0.22					
3296	Off-Highway Trucks	0.27	0.08	0.93	0.09	0.08					
3297	Pickup Truck	17.56	2.55	3.10	0.32	0.32					
3298	Tractors	0.32	0.07	0.48	0.04	0.05					
3299	Trencher	0.19	0.03	0.20	0.02	0.03					
3300	Welder	0.09	0.02	0.15	0.02	0.02					
3301	Grand Total	24.91	3.77	13.89	1.39	1.63					

Line #	**Helipad**										
3302	**Phase**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3303							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3304	Prepare the Site	Excavator (small)	400	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3305	Prepare the Site	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3306	Prepare the Site	Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3307	Prepare the Site	Grader	400	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3308	Prepare the Site	Roller	400	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3309	Prepare the Site	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3310	Prepare the Site	Grader	400	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3311	Prepare the Site	Water Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3312	Prepare the Site	Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3313	Prepare the Site	Roller	400	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3314	Prepare the Site	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3315	Prepare the Site	Loader	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3316	Prepare the Site	Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3317	Prepare the Site	Grader	400	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3318	Prepare the Site	Water Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3319	Prepare the Site	Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3320	Prepare the Site	Roller	400	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3321	Prepare the Site	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3322	Prepare the Site	Loader	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3323	Prepare the Site	Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3324	Prepare the Site	Grader	400	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3325	Prepare the Site	Roller	400	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3326	Prepare the Site	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3327	Prepare the Site	Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3328	Prepare the Site	Grader	400	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3329	Drainage System	Backhoe	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3330	Drainage System	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3331	Drainage System	Off-Highway Trucks	400	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3332	Drainage System	Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3333	Drainage System	Compactor	400	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3334	Drainage System	Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3335	Drainage System	Backhoe	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3336	Pavement	Trencher	400	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3337	Pavement	Compactor	400	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3338	Asphalt Paving	Other Construction Equipment	400	161	0.62	100%	9.2	1.4	11.0	0.9	1.4

3339	Asphalt Paving	Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3340	Asphalt Paving	Paver, Asphalt	400	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
3341	Asphalt Paving	Other Construction Equipment	400	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3342	Asphalt Paving	Generator <50 HP	400	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
3343	Asphalt Paving	Other Construction Equipment	400	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3344	Asphalt Paving	Pickup Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3345											
3346			1000	used to convert grams to 1000's gram							
3347											
3348											
3349									**Emissions** (1000 g/year)		
3350						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3351						Excavator (small)	175.49	2.36	362.79	31.39	48.60
3352						Bulldozer	235.24	70.57	806.55	78.13	55.45
3353						Dump Truck	1726.14	144.77	445.45	111.36	66.82
3354						Grader	120.66	48.90	304.82	27.62	31.75
3355						Roller	72.43	18.69	217.29	23.36	18.22
3356						Bulldozer	235.24	70.57	806.55	78.13	55.45
3357						Grader	120.66	48.90	304.82	27.62	31.75
3358						Water Truck	3981.25	579.09	702.15	72.39	72.39
3359						Tractors	73.39	15.11	109.00	9.17	11.33
3360						Roller	72.43	18.69	217.29	23.36	18.22
3361						Bulldozer	235.24	70.57	806.55	78.13	55.45
3362						Loader	73.39	15.11	109.00	9.17	11.33
3363						Dump Truck	1726.14	144.77	445.45	111.36	66.82
3364						Grader	120.66	48.90	304.82	27.62	31.75
3365						Water Truck	3981.25	579.09	702.15	72.39	72.39
3366						Tractors	73.39	15.11	109.00	9.17	11.33
3367						Roller	72.43	18.69	217.29	23.36	18.22
3368						Bulldozer	235.24	70.57	806.55	78.13	55.45
3369						Loader	73.39	15.11	109.00	9.17	11.33
3370						Dump Truck	1726.14	144.77	445.45	111.36	66.82
3371						Grader	120.66	48.90	304.82	27.62	31.75
3372						Roller	72.43	18.69	217.29	23.36	18.22
3373						Bulldozer	235.24	70.57	806.55	78.13	55.45
3374						Dump Truck	1726.14	144.77	445.45	111.36	66.82
3375						Grader	120.66	48.90	304.82	27.62	31.75
3376						Backhoe	73.39	15.11	109.00	9.17	11.33

3377	Bulldozer	235.24	70.57	806.55	78.13	55.45
3378	Off-Highway Trucks	184.24	55.27	631.68	58.56	52.64
3379	Bulldozer	235.24	70.57	806.55	78.13	55.45
3380	Compactor	4.27	1.10	12.80	1.28	1.24
3381	Dump Truck	1726.14	144.77	445.45	111.36	66.82
3382	Backhoe	73.39	15.11	109.00	9.17	11.33
3383	Trencher	63.18	10.64	69.26	6.43	9.95
3384	Compactor	4.27	1.10	12.80	1.28	1.24
3385	Other Construction Equipment	367.34	56.30	439.61	37.13	57.50
3386	Tractors	73.39	15.11	109.00	9.17	11.33
3387	Paver, Asphalt	55.19	10.35	177.65	16.04	15.52
3388	Other Construction Equipment	367.34	56.30	439.61	37.13	57.50
3389	Generator <50 HP	32.56	7.81	52.10	6.06	6.51
3390	Other Construction Equipment	367.34	56.30	439.61	37.13	57.50
3391	Pickup Truck	3981.25	579.09	702.15	72.39	72.39
3392						
3393				**Emissions** (tons/year)		
3394	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3395	Excavator (small)	0.19	0.00	0.40	0.03	0.05
3396	Bulldozer	0.26	0.08	0.89	0.09	0.06
3397	Dump Truck	1.90	0.16	0.49	0.12	0.07
3398	Grader	0.13	0.05	0.34	0.03	0.04
3399	Roller	0.08	0.02	0.24	0.03	0.02
3400	Bulldozer	0.26	0.08	0.89	0.09	0.06
3401	Grader	0.13	0.05	0.34	0.03	0.04
3402	Water Truck	4.39	0.64	0.77	0.08	0.08
3403	Tractors	0.08	0.02	0.12	0.01	0.01
3404	Roller	0.08	0.02	0.24	0.03	0.02
3405	Bulldozer	0.26	0.08	0.89	0.09	0.06
3406	Loader	0.08	0.02	0.12	0.01	0.01
3407	Dump Truck	1.90	0.16	0.49	0.12	0.07
3408	Grader	0.13	0.05	0.34	0.03	0.04
3409	Water Truck	4.39	0.64	0.77	0.08	0.08
3410	Tractors	0.08	0.02	0.12	0.01	0.01
3411	Roller	0.08	0.02	0.24	0.03	0.02
3412	Bulldozer	0.26	0.08	0.89	0.09	0.06
3413	Loader	0.08	0.02	0.12	0.01	0.01
3414	Dump Truck	1.90	0.16	0.49	0.12	0.07
3415	Grader	0.13	0.05	0.34	0.03	0.04
3416	Roller	0.08	0.02	0.24	0.03	0.02
3417	Bulldozer	0.26	0.08	0.89	0.09	0.06
3418	Dump Truck	1.90	0.16	0.49	0.12	0.07
3419	Grader	0.13	0.05	0.34	0.03	0.04
3420	Backhoe	0.08	0.02	0.12	0.01	0.01

3421	Bulldozer	0.26	0.08	0.89	0.09	0.06
3422	Off-Highway Trucks	0.20	0.06	0.70	0.06	0.06
3423	Bulldozer	0.26	0.08	0.89	0.09	0.06
3424	Compactor	0.00	0.00	0.01	0.00	0.00
3425	Dump Truck	1.90	0.16	0.49	0.12	0.07
3426	Backhoe	0.08	0.02	0.12	0.01	0.01
3427	Trencher	0.07	0.01	0.08	0.01	0.01
3428	Compactor	0.00	0.00	0.01	0.00	0.00
3429	Other Construction Equipment	0.40	0.06	0.48	0.04	0.06
3430	Tractors	0.08	0.02	0.12	0.01	0.01
3431	Paver, Asphalt	0.06	0.01	0.20	0.02	0.02
3432	Other Construction Equipment	0.40	0.06	0.48	0.04	0.06
3433	Generator <50 HP	0.04	0.01	0.06	0.01	0.01
3434	Other Construction Equipment	0.40	0.06	0.48	0.04	0.06
3435	Pickup Truck	4.39	0.64	0.77	0.08	0.08
3436		**27.83**	**4.01**	**17.39**	**2.04**	**1.72**
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3456		Data				
3457	Equipment	Sum of CO	Sum of HC	Sum of NO:	Sum of SOx	Sum of PM10
3458	Backhoe	0.16	0.03	0.24	0.02	0.02
3459	Bulldozer	1.82	0.54	6.22	0.60	0.43
3460	Compactor	0.01	0.00	0.03	0.00	0.00
3461	Dump Truck	9.51	0.80	2.46	0.61	0.37
3462	Excavator (small)	0.19	0.00	0.40	0.03	0.05
3463	Generator <50 HP	0.04	0.01	0.06	0.01	0.01
3464	Grader	0.67	0.27	1.68	0.15	0.18
3465	Loader	0.16	0.03	0.24	0.02	0.02
3466	Off-Highway Trucks	0.20	0.06	0.70	0.06	0.06

3467	Other Construction Equipment	1.21	0.19	1.45	0.12	0.19	
3468	Paver, Asphalt	0.06	0.01	0.20	0.02	0.02	
3469	Pickup Truck	4.39	0.64	0.77	0.08	0.08	
3470	Roller	0.32	0.08	0.96	0.10	0.08	
3471	Tractors	0.24	0.05	0.36	0.03	0.04	
3472	Trencher	0.07	0.01	0.08	0.01	0.01	
3473	Water Truck	8.78	1.28	1.55	0.16	0.16	
3474	Grand Total	27.83	4.01	17.39	2.04	1.72	
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Line #	**Aircraft Rescue and Fire-Fighting Facility (ARFF)**										
3499	**Description**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3500							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3501	Bedding for pipe and conduit	Backhoe	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3502		Compactor	400	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3503	Trenching for cement footings	Excavator (small)	400	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3504		Trencher	400	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3505	Trenching for utilities	Excavator (small)	400	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3506		Trencher	400	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3507	Hauling excavated materials	Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3508		Dump Truck	400	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3509	Erosion and Sedimentation Control	Loader, Rubber-tired	400	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3510		Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3511		Bulldozer	400	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3512	Driven Piles	Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3513		Drill rigs	400	209	0.75	100%	9.2	1.4	11.0	0.9	1.4
3514		Air Compressor	400	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3515	Utilities	Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3516		Tractors	400	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3517	Concrete Forms	Cement/Mortar mixers	400	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3518		Loader, Rubber-tired	400	175	0.54	100%	4.8	0.8	10.3	0.9	1.3
3519	Reinforcing Steel	Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3520		Off-Highway Trucks	400	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3521	Structural Concrete	Cement/Mortar mixers	400	11	0.56	100%	4.6	1.0	11.0	0.9	0.9
3522		Loader, Rubber-tired	400	175	0.54	100%	4.8	0.8	10.3	0.9	1.3

3523		Compactor	400	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3524	Roof Deck	Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3525	Building Insulation	Pickup Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3526		Air Compressor	400	37	0.48	100%	5.0	1.2	8.0	0.9	1.0
3527	Doors and Windows	Welder	400	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
3528		Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3529		Pickup Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3530	Industrial Doors/Overhead Doors	Cranes	400	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3531		Pickup Truck	400	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3532		Generator <50 HP	400	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
3533		Welder	400	35	0.45	100%	5.0	1.2	8.0	0.9	1.0
3534											
3535		1000	used to convert grams to 1000's gram								
3536											
3537											
3538									**Emissions** (1000 g/year)		
3539						**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3540					Bedding for pipe and conduit	Backhoe	73.39	15.11	109.00	9.17	11.33
3541						Compactor	4.27	1.10	12.80	1.28	1.24
3542					Trenching for cement footings	Excavator (small)	175.49	2.36	362.79	31.39	48.60
3543						Trencher	63.18	10.64	69.26	6.43	9.95
3544					Trenching for utilities	Excavator (small)	175.49	2.36	362.79	31.39	48.60
3545						Trencher	63.18	10.64	69.26	6.43	9.95
3546					Hauling excavated materials	Tractors	73.39	15.11	109.00	9.17	11.33
3547						Dump Truck	1726.14	144.77	445.45	111.36	66.82
3548					Erosion and Sedimentation Control	Loader, Rubber-tired	181.44	31.75	389.34	32.51	48.76
3549						Tractors	73.39	15.11	109.00	9.17	11.33
3550						Bulldozer	235.24	70.57	806.55	78.13	55.45
3551					Driven Piles	Cranes	140.15	42.04	343.69	31.03	48.05
3552						Drill rigs	576.84	88.41	690.33	58.31	90.29
3553						Air Compressor	35.52	8.52	56.83	6.61	7.10
3554					Utilities	Cranes	140.15	42.04	343.69	31.03	48.05
3555						Tractors	73.39	15.11	109.00	9.17	11.33
3556					Concrete Forms	Cement/Mortar mixers	11.33	2.49	27.13	2.29	2.22
3557						Loader, Rubber-tired	181.44	31.75	389.34	32.51	48.76
3558					Reinforcing Steel	Cranes	140.15	42.04	343.69	31.03	48.05
3559						Off-Highway Trucks	184.24	55.27	631.68	58.56	52.64
3560					Structural Concrete	Cement/Mortar mixers	11.33	2.49	27.13	2.29	2.22
3561						Loader, Rubber-tired	181.44	31.75	389.34	32.51	48.76
3562						Compactor	4.27	1.10	12.80	1.28	1.24

3563	Roof Deck	Cranes	140.15	42.04	343.69	31.03	48.05
3564	Building Insulation	Pickup Truck	3981.25	579.09	702.15	72.39	72.39
3565		Air Compressor	35.52	8.52	56.83	6.61	7.10
3566	Doors and Windows	Welder	31.50	7.56	50.40	5.86	6.30
3567		Cranes	140.15	42.04	343.69	31.03	48.05
3568		Pickup Truck	3981.25	579.09	702.15	72.39	72.39
3569	Industrial Doors/Overhead Doors	Cranes	140.15	42.04	343.69	31.03	48.05
3570		Pickup Truck	3981.25	579.09	702.15	72.39	72.39
3571		Generator <50 HP	32.56	7.81	52.10	6.06	6.51
3572		Welder	31.50	7.56	50.40	5.86	6.30
3573							
3574					**Emissions**		
3575		**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3576	Bedding for pipe and conduit	Backhoe	0.08	0.02	0.12	0.01	0.01
3577		Compactor	0.00	0.00	0.01	0.00	0.00
3578	Trenching for cement footings	Excavator (small)	0.19	0.00	0.40	0.03	0.05
3579		Trencher	0.07	0.01	0.08	0.01	0.01
3580	Trenching for utilities	Excavator (small)	0.19	0.00	0.40	0.03	0.05
3581		Trencher	0.07	0.01	0.08	0.01	0.01
3582	Hauling excavated materials	Tractors	0.08	0.02	0.12	0.01	0.01
3583		Dump Truck	1.90	0.16	0.49	0.12	0.07
3584	Erosion and Sedimentation Control	Loader, Rubber-tired	0.20	0.04	0.43	0.04	0.05
3585		Tractors	0.08	0.02	0.12	0.01	0.01
3586		Bulldozer	0.26	0.08	0.89	0.09	0.06
3587	Driven Piles	Cranes	0.15	0.05	0.38	0.03	0.05
3588		Drill rigs	0.64	0.10	0.76	0.06	0.10
3589		Air Compressor	0.04	0.01	0.06	0.01	0.01
3590	Utilities	Cranes	0.15	0.05	0.38	0.03	0.05
3591		Tractors	0.08	0.02	0.12	0.01	0.01
3592	Concrete Forms	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
3593		Loader, Rubber-tired	0.20	0.04	0.43	0.04	0.05
3594	Reinforcing Steel	Cranes	0.15	0.05	0.38	0.03	0.05
3595		Off-Highway Trucks	0.20	0.06	0.70	0.06	0.06
3596	Structural Concrete	Cement/Mortar mixers	0.01	0.00	0.03	0.00	0.00
3597		Loader, Rubber-tired	0.20	0.04	0.43	0.04	0.05
3598		Compactor	0.00	0.00	0.01	0.00	0.00
3599	Roof Deck	Cranes	0.15	0.05	0.38	0.03	0.05
3600	Building Insulation	Pickup Truck	4.39	0.64	0.77	0.08	0.08
3601		Air Compressor	0.04	0.01	0.06	0.01	0.01
3602	Doors and Windows	Welder	0.03	0.01	0.06	0.01	0.01
3603		Cranes	0.15	0.05	0.38	0.03	0.05
3604		Pickup Truck	4.39	0.64	0.77	0.08	0.08
3605	Industrial Doors/Overhead Doors	Cranes	0.15	0.05	0.38	0.03	0.05
3606		Pickup Truck	4.39	0.64	0.77	0.08	0.08
3607		Generator <50 HP	0.04	0.01	0.06	0.01	0.01

3608							Welder	0.03	0.01	0.06	0.01	0.01
3609								**18.76**	**2.84**	**10.53**	**1.06**	**1.23**
3610												
3611		Data										
3612	Equipment	Sum of CO	Sum of HC	Sum of NC	Sum of SOx	Sum of PM10						
3613	Air Compressor	0.08	0.02	0.13	0.01	0.02						
3614	Backhoe	0.08	0.02	0.12	0.01	0.01						
3615	Bulldozer	0.26	0.08	0.89	0.09	0.06						
3616	Cement/Mortar mixers	0.02	0.01	0.06	0.01	0.00						
3617	Compactor	0.01	0.00	0.03	0.00	0.00						
3618	Cranes	0.93	0.28	2.27	0.21	0.32						
3619	Drill rigs	0.64	0.10	0.76	0.06	0.10						
3620	Dump Truck	1.90	0.16	0.49	0.12	0.07						
3621	Excavator (small)	0.39	0.01	0.80	0.07	0.11						
3622	Generator <50 HP	0.04	0.01	0.06	0.01	0.01						
3623	Loader, Rubber-tired	0.60	0.11	1.29	0.11	0.16						
3624	Off-Highway Trucks	0.20	0.06	0.70	0.06	0.06						
3625	Pickup Truck	13.17	1.92	2.32	0.24	0.24						
3626	Tractors	0.24	0.05	0.36	0.03	0.04						
3627	Trencher	0.14	0.02	0.15	0.01	0.02						
3628	Welder	0.07	0.02	0.11	0.01	0.01						
3629	Grand Total	18.76	2.84	10.53	1.06	1.23						
3630												
3631												
3632												
3633												
3634												
3635												
3636												
3637												
3638												
3639												
3640												
3641												

Line #	Electric Conduit									
								Emissions Factors (grams/HP-hr)		
3642	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**					
3643						**CO**	**HC**	**NOx**	**SOx**	**PM10**
3644	Compactor	200	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
3645	Grader	200	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
3646	Pickup Truck	200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
3647	Trencher	200	27	0.64	100%	9.14	1.54	10.02	0.93	1.44
3648	Water Truck	200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
3649										
								Emissions (1000 grams/year)		
3650										
3651					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3652					Compactor	2.13	0.55	6.40	0.64	0.62
3653					Grader	60.33	24.45	152.41	13.81	15.88
3654					Pickup Truck	1990.63	289.55	351.07	36.19	36.19
3655					Trencher	31.59	5.32	34.63	3.21	4.98
3656					Water Truck	1990.63	289.55	351.07	36.19	36.19
3657					Total	4075.30	609.41	895.58	90.05	93.86
3658										
3659	1000	used to convert grams to 1000's gram								
3660										
3661										
								Emissions (tons/year)		
3662										
3663					Equipment	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3664					Compactor	0.00	0.00	0.01	0.00	0.00
3665					Grader	0.07	0.03	0.17	0.02	0.02
3666					Pickup Truck	2.19	0.32	0.39	0.04	0.04
3667					Trencher	0.03	0.01	0.04	0.00	0.01
3668					Water Truck	2.19	0.32	0.39	0.04	0.04
3669					Total	**4.49**	**0.67**	**0.99**	**0.10**	**0.10**
3670										
3671										
3672										
3673										
3674										
3675										
3676										
3677										
3678										

Line #	**Automated Surface Observation System (ASOS) Installation**									
								Emissions Factors (grams/HP-hr)		
3679	Equipment	Operating Hours	HP	LF	Usage					
3680						**CO**	**HC**	**NOx**	**SOx**	**PM10**
3681	Pickup Truck	56	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
3682	Trencher	56	27	0.64	100%	9.14	1.54	10.02	0.93	1.44
3683	Water Truck	56	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
3684										
								Emissions (1000 grams/year)		
3685					**Equipment**					
3686						**CO**	**HC**	**NOx**	**SOx**	**PM10**
3687					Pickup Truck	557.38	81.07	98.30	10.13	10.13
3688					Trencher	8.84	1.49	9.70	0.90	1.39
3689					Water Truck	557.38	81.07	98.30	10.13	10.13
3690					Total	1123.59	163.64	206.30	21.17	21.66
3691										
3692	1000	used to convert grams to 1000's gram								
3693										
3694										
3695										
								Emissions (tons/year)		
3696					**Equipment**					
3697						**CO**	**HC**	**NOx**	**SOx**	**PM10**
3698					Pickup Truck	0.61	0.09	0.11	0.01	0.01
3699					Trencher	0.01	0.00	0.01	0.00	0.00
3700					Water Truck	0.61	0.09	0.11	0.01	0.01
3701					Total	**1.24**	**0.18**	**0.23**	**0.02**	**0.02**
3702										
3703										
3704										
3705										
3706										
3707										
3708										
3709										
3710										
3711										
3712										
3713										
3714										
3715										
3716										

Line #	**Fuel Farm**										
3717	**Phase**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3718							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3719	Prepare the Site	Excavator (small)	200	143	0.59	100%	5.2	0.1	10.8	0.9	1.4
3720	Prepare the Site	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3721	Prepare the Site	Dump Truck	200	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3722	Prepare the Site	Grader	200	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3723	Prepare the Site	Roller	200	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3724	Prepare the Site	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3725	Prepare the Site	Grader	200	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3726	Prepare the Site	Water Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3727	Prepare the Site	Tractors	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3728	Prepare the Site	Roller	200	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3729	Prepare the Site	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3730	Prepare the Site	Loader	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3731	Prepare the Site	Dump Truck	200	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3732	Prepare the Site	Grader	200	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3733	Prepare the Site	Water Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3734	Prepare the Site	Tractors	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3735	Prepare the Site	Roller	200	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3736	Prepare the Site	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3737	Prepare the Site	Loader	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3738	Prepare the Site	Dump Truck	200	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3739	Prepare the Site	Grader	200	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3740	Prepare the Site	Roller	200	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3741	Prepare the Site	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3742	Prepare the Site	Dump Truck	200	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3743	Prepare the Site	Grader	200	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3744	Drainage System	Backhoe	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3745	Drainage System	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3746	Drainage System	Off-Highway Trucks	200	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3747	Drainage System	Bulldozer	200	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3748	Drainage System	Compactor	200	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3749	Drainage System	Dump Truck	200	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3750	Drainage System	Backhoe	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3751	Fuel Tanks	Cranes	200	194	0.43	100%	4.2	1.3	10.3	0.9	1.4
3752	Fuel Tanks	Off-Highway Trucks	200	658	0.25	100%	2.8	0.8	9.6	0.9	0.8
3753	Pavement	Trencher	200	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3754	Pavement	Compactor	200	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3755	Asphalt Paving	Other Construction Equipment	200	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3756	Asphalt Paving	Tractors	200	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3757	Asphalt Paving	Paver, Asphalt	200	77	0.56	100%	3.2	0.6	10.3	0.9	0.9

3758	Asphalt Paving	Other Construction Equipment	200	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3759	Asphalt Paving	Generator <50 HP	200	22	0.74	100%	5.0	1.2	8.0	0.9	1.0
3760	Asphalt Paving	Other Construction Equipment	200	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3761	Asphalt Paving	Pickup Truck	200	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3762											
3763		1000	used to convert grams to 1000's gram								
3764											
3765											
3766								**Emissions** (1000 g/year)			
3767							**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3768							Excavator (small)	87.74	1.18	181.40	15.69	24.30
3769							Bulldozer	117.62	35.29	403.28	39.07	27.73
3770							Dump Truck	863.07	72.39	222.73	55.68	33.41
3771							Grader	60.33	24.45	152.41	13.81	15.88
3772							Roller	36.21	9.35	108.64	11.68	9.11
3773							Bulldozer	117.62	35.29	403.28	39.07	27.73
3774							Grader	60.33	24.45	152.41	13.81	15.88
3775							Water Truck	1990.63	289.55	351.07	36.19	36.19
3776							Tractors	36.69	7.55	54.50	4.59	5.67
3777							Roller	36.21	9.35	108.64	11.68	9.11
3778							Bulldozer	117.62	35.29	403.28	39.07	27.73
3779							Loader	36.69	7.55	54.50	4.59	5.67
3780							Dump Truck	863.07	72.39	222.73	55.68	33.41
3781							Grader	60.33	24.45	152.41	13.81	15.88
3782							Water Truck	1990.63	289.55	351.07	36.19	36.19
3783							Tractors	36.69	7.55	54.50	4.59	5.67
3784							Roller	36.21	9.35	108.64	11.68	9.11
3785							Bulldozer	117.62	35.29	403.28	39.07	27.73
3786							Loader	36.69	7.55	54.50	4.59	5.67
3787							Dump Truck	863.07	72.39	222.73	55.68	33.41
3788							Grader	60.33	24.45	152.41	13.81	15.88
3789							Roller	36.21	9.35	108.64	11.68	9.11
3790							Bulldozer	117.62	35.29	403.28	39.07	27.73
3791							Dump Truck	863.07	72.39	222.73	55.68	33.41
3792							Grader	60.33	24.45	152.41	13.81	15.88
3793							Backhoe	36.69	7.55	54.50	4.59	5.67
3794							Bulldozer	117.62	35.29	403.28	39.07	27.73
3795							Off-Highway Trucks	92.12	27.64	315.84	29.28	26.32
3796							Bulldozer	117.62	35.29	403.28	39.07	27.73
3797							Compactor	2.13	0.55	6.40	0.64	0.62
3798							Dump Truck	863.07	72.39	222.73	55.68	33.41
3799							Backhoe	36.69	7.55	54.50	4.59	5.67
3800							Cranes	70.07	21.02	171.85	15.52	24.02
3801							Off-Highway Trucks	92.12	27.64	315.84	29.28	26.32

3802	Trencher	31.59	5.32	34.63	3.21	4.98
3803	Compactor	2.13	0.55	6.40	0.64	0.62
3804	Other Construction Equipment	183.67	28.15	219.80	18.57	28.75
3805	Tractors	36.69	7.55	54.50	4.59	5.67
3806	Paver, Asphalt	27.60	5.17	88.83	8.02	7.76
3807	Other Construction Equipment	183.67	28.15	219.80	18.57	28.75
3808	Generator <50 HP	16.28	3.91	26.05	3.03	3.26
3809	Other Construction Equipment	183.67	28.15	219.80	18.57	28.75
3810	Pickup Truck	1990.63	289.55	351.07	36.19	36.19
3811						
3812				**Emissions** (tons/year)		
3813	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3814	Excavator (small)	0.10	0.00	0.20	0.02	0.03
3815	Bulldozer	0.13	0.04	0.44	0.04	0.03
3816	Dump Truck	0.95	0.08	0.25	0.06	0.04
3817	Grader	0.07	0.03	0.17	0.02	0.02
3818	Roller	0.04	0.01	0.12	0.01	0.01
3819	Bulldozer	0.13	0.04	0.44	0.04	0.03
3820	Grader	0.07	0.03	0.17	0.02	0.02
3821	Water Truck	2.19	0.32	0.39	0.04	0.04
3822	Tractors	0.04	0.01	0.06	0.01	0.01
3823	Roller	0.04	0.01	0.12	0.01	0.01
3824	Bulldozer	0.13	0.04	0.44	0.04	0.03
3825	Loader	0.04	0.01	0.06	0.01	0.01
3826	Dump Truck	0.95	0.08	0.25	0.06	0.04
3827	Grader	0.07	0.03	0.17	0.02	0.02
3828	Water Truck	2.19	0.32	0.39	0.04	0.04
3829	Tractors	0.04	0.01	0.06	0.01	0.01
3830	Roller	0.04	0.01	0.12	0.01	0.01
3831	Bulldozer	0.13	0.04	0.44	0.04	0.03
3832	Loader	0.04	0.01	0.06	0.01	0.01
3833	Dump Truck	0.95	0.08	0.25	0.06	0.04
3834	Grader	0.07	0.03	0.17	0.02	0.02
3835	Roller	0.04	0.01	0.12	0.01	0.01
3836	Bulldozer	0.13	0.04	0.44	0.04	0.03
3837	Dump Truck	0.95	0.08	0.25	0.06	0.04
3838	Grader	0.07	0.03	0.17	0.02	0.02
3839	Backhoe	0.04	0.01	0.06	0.01	0.01
3840	Bulldozer	0.13	0.04	0.44	0.04	0.03
3841	Off-Highway Trucks	0.10	0.03	0.35	0.03	0.03
3842	Bulldozer	0.13	0.04	0.44	0.04	0.03
3843	Compactor	0.00	0.00	0.01	0.00	0.00
3844	Dump Truck	0.95	0.08	0.25	0.06	0.04

3845	Backhoe	0.04	0.01	0.06	0.01	0.01
3846	Cranes	0.08	0.02	0.19	0.02	0.03
3847	Off-Highway Trucks	0.10	0.03	0.35	0.03	0.03
3848	Trencher	0.03	0.01	0.04	0.00	0.01
3849	Compactor	0.00	0.00	0.01	0.00	0.00
3850	Other Construction Equipment	0.20	0.03	0.24	0.02	0.03
3851	Tractors	0.04	0.01	0.06	0.01	0.01
3852	Paver, Asphalt	0.03	0.01	0.10	0.01	0.01
3853	Other Construction Equipment	0.20	0.03	0.24	0.02	0.03
3854	Generator <50 HP	0.02	0.00	0.03	0.00	0.00
3855	Other Construction Equipment	0.20	0.03	0.24	0.02	0.03
3856	Pickup Truck	2.19	0.32	0.39	0.04	0.04
3857		**14.09**	**2.06**	**9.23**	**1.07**	**0.91**
3858						
3859						

3860		Data				
3861	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SC	Sum of PM10
3862	Backhoe	0.0809	0.0167	0.1202	0.0101	0.0125
3863	Bulldozer	0.9076	0.2723	3.1118	0.3015	0.2139
3864	Compactor	0.0047	0.0012	0.0141	0.0014	0.0014
3865	Cranes	0.0772	0.0232	0.1894	0.0171	0.0265
3866	Dump Truck	4.7568	0.3990	1.2276	0.3069	0.1841
3867	Excavator (sma	0.0967	0.0013	0.2000	0.0173	0.0268
3868	Generator <50 H	0.0179	0.0043	0.0287	0.0033	0.0036
3869	Grader	0.3325	0.1348	0.8400	0.0761	0.0875
3870	Loader	0.0809	0.0167	0.1202	0.0101	0.0125
3871	Off-Highway Tru	0.2031	0.0609	0.6963	0.0646	0.0580
3872	Other Construct	0.6074	0.0931	0.7269	0.0614	0.0951
3873	Paver, Asphalt	0.0304	0.0057	0.0979	0.0088	0.0086
3874	Pickup Truck	2.1943	0.3192	0.3870	0.0399	0.0399
3875	Roller	0.1597	0.0412	0.4790	0.0515	0.0402
3876	Tractors	0.1213	0.0250	0.1802	0.0152	0.0187
3877	Trencher	0.0348	0.0059	0.0382	0.0035	0.0055
3878	Water Truck	4.3886	0.6383	0.7740	0.0798	0.0798
3879	Grand Total	14.0949	2.0586	9.2314	1.0685	0.9145
3880						
3881						
3882						
3883						
3884						

Line #	**Taxiways**										
3885	**Phase**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
3886							**CO**	**HC**	**NOx**	**SOx**	**PM10**
3887	Prepare the Site	Grader	1056	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3888	Prepare the Site	Roller	1056	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3889	Prepare the Site	Bulldozer	1056	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3890	Prepare the Site	Grader	1056	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3891	Prepare the Site	Water Truck	1056	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3892	Prepare the Site	Tractors	1056	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3893	Prepare the Site	Roller	1056	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3894	Prepare the Site	Bulldozer	1056	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3895	Prepare the Site	Loader	1056	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3896	Prepare the Site	Dump Truck	1056	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3897	Prepare the Site	Grader	1056	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3898	Prepare the Site	Water Truck	1056	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
3899	Prepare the Site	Tractors	1056	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3900	Prepare the Site	Roller	1056	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3901	Prepare the Site	Bulldozer	1056	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3902	Prepare the Site	Loader	1056	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3903	Prepare the Site	Dump Truck	1056	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3904	Prepare the Site	Grader	1056	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3905	Prepare the Site	Roller	1056	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
3906	Prepare the Site	Bulldozer	1056	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
3907	Prepare the Site	Dump Truck	1056	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
3908	Prepare the Site	Grader	1056	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
3909	Pavement	Trencher	1056	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
3910	Pavement	Compactor	1056	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
3911	Asphalt Paving	Other Construction Equipment	1056	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
3912	Asphalt Paving	Tractors	1056	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
3913	Asphalt Paving	Paver, Asphalt	1056	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
3914											
3915		1000	used to convert grams to 1000's gram								
3916											
3917											
3918											
3919											
3920											

3921				**Emissions** (1000 g/year)		
3922	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3923	Grader	318.54	129.09	804.72	72.93	83.83
3924	Roller	191.21	49.34	573.63	61.68	48.11
3925	Bulldozer	621.05	186.31	2129.30	206.28	146.39
3926	Grader	318.54	129.09	804.72	72.93	83.83
3927	Water Truck	10510.50	1528.80	1853.67	191.10	191.10
3928	Tractors	193.74	39.89	287.76	24.22	29.92
3929	Roller	191.21	49.34	573.63	61.68	48.11
3930	Bulldozer	621.05	186.31	2129.30	206.28	146.39
3931	Loader	193.74	39.89	287.76	24.22	29.92
3932	Dump Truck	4557.00	382.20	1176.00	294.00	176.40
3933	Grader	318.54	129.09	804.72	72.93	83.83
3934	Water Truck	10510.50	1528.80	1853.67	191.10	191.10
3935	Tractors	193.74	39.89	287.76	24.22	29.92
3936	Roller	191.21	49.34	573.63	61.68	48.11
3937	Bulldozer	621.05	186.31	2129.30	206.28	146.39
3938	Loader	193.74	39.89	287.76	24.22	29.92
3939	Dump Truck	4557.00	382.20	1176.00	294.00	176.40
3940	Grader	318.54	129.09	804.72	72.93	83.83
3941	Roller	191.21	49.34	573.63	61.68	48.11
3942	Bulldozer	621.05	186.31	2129.30	206.28	146.39
3943	Dump Truck	4557.00	382.20	1176.00	294.00	176.40
3944	Grader	318.54	129.09	804.72	72.93	83.83
3945	Trencher	166.78	28.10	182.84	16.97	26.28
3946	Compactor	11.26	2.91	33.78	3.38	3.27
3947	Other Construction Equipment	969.77	148.63	1160.56	98.03	151.79
3948	Tractors	193.74	39.89	287.76	24.22	29.92
3949	Paver, Asphalt	145.71	27.32	469.01	42.35	40.98
3950						
3951				**Emissions** (tons/year)		
3952	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
3953	Grader	0.35	0.14	0.89	0.08	0.09
3954	Roller	0.21	0.05	0.63	0.07	0.05
3955	Bulldozer	0.68	0.21	2.35	0.23	0.16
3956	Grader	0.35	0.14	0.89	0.08	0.09
3957	Water Truck	11.59	1.69	2.04	0.21	0.21
3958	Tractors	0.21	0.04	0.32	0.03	0.03
3959	Roller	0.21	0.05	0.63	0.07	0.05
3960	Bulldozer	0.68	0.21	2.35	0.23	0.16
3961	Loader	0.21	0.04	0.32	0.03	0.03
3962	Dump Truck	5.02	0.42	1.30	0.32	0.19
3963	Grader	0.35	0.14	0.89	0.08	0.09
3964	Water Truck	11.59	1.69	2.04	0.21	0.21

3965	Tractors	0.21	0.04	0.32	0.03	0.03
3966	Roller	0.21	0.05	0.63	0.07	0.05
3967	Bulldozer	0.68	0.21	2.35	0.23	0.16
3968	Loader	0.21	0.04	0.32	0.03	0.03
3969	Dump Truck	5.02	0.42	1.30	0.32	0.19
3970	Grader	0.35	0.14	0.89	0.08	0.09
3971	Roller	0.21	0.05	0.63	0.07	0.05
3972	Bulldozer	0.68	0.21	2.35	0.23	0.16
3973	Dump Truck	5.02	0.42	1.30	0.32	0.19
3974	Grader	0.35	0.14	0.89	0.08	0.09
3975	Trencher	0.18	0.03	0.20	0.02	0.03
3976	Compactor	0.01	0.00	0.04	0.00	0.00
3977	Other Construction Equipment	1.07	0.16	1.28	0.11	0.17
3978	Tractors	0.21	0.04	0.32	0.03	0.03
3979	Paver, Asphalt	0.16	0.03	0.52	0.05	0.05
3980		**46.07**	**6.83**	**27.95**	**3.29**	**2.73**
3981						
3982						
3983						

3984		Data				
3985	Equipment	Sum of CO	Sum of HC	Sum of NOx	Sum of SOx	Sum of PM10
3986	Bulldozer	2.74	0.82	9.39	0.91	0.65
3987	Compactor	0.01	0.00	0.04	0.00	0.00
3988	Dump Truck	15.07	1.26	3.89	0.97	0.58
3989	Grader	1.76	0.71	4.44	0.40	0.46
3990	Loader	0.43	0.09	0.63	0.05	0.07
3991	Other Construction Equipment	1.07	0.16	1.28	0.11	0.17
3992	Paver, Asphalt	0.16	0.03	0.52	0.05	0.05
3993	Roller	0.84	0.22	2.53	0.27	0.21
3994	Tractors	0.64	0.13	0.95	0.08	0.10
3995	Trencher	0.18	0.03	0.20	0.02	0.03
3996	Water Truck	23.17	3.37	4.09	0.42	0.42
3997	Grand Total	46.07	6.83	27.95	3.29	2.73
3998						
3999						
4000						
4001						
4002						
4003						
4004						
4005						
4006						

Line #	**Runway Construction**										
4007	**Phase**	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
4008							**CO**	**HC**	**NOx**	**SOx**	**PM10**
4009	Prepare the Site	Grader	1760	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
4010	Prepare the Site	Roller	1760	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
4011	Prepare the Site	Bulldozer	1760	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
4012	Prepare the Site	Grader	1760	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
4013	Prepare the Site	Water Truck	1760	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
4014	Prepare the Site	Tractors	1760	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
4015	Prepare the Site	Roller	1760	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
4016	Prepare the Site	Bulldozer	1760	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
4017	Prepare the Site	Loader	1760	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
4018	Prepare the Site	Dump Truck	1760	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
4019	Prepare the Site	Grader	1760	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
4020	Prepare the Site	Water Truck	1760	325	0.556818182	100%	55.0	8.0	9.7	1.0	1.0
4021	Prepare the Site	Tractors	1760	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
4022	Prepare the Site	Roller	1760	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
4023	Prepare the Site	Bulldozer	1760	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
4024	Prepare the Site	Loader	1760	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
4025	Prepare the Site	Dump Truck	1760	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
4026	Prepare the Site	Grader	1760	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
4027	Prepare the Site	Roller	1760	99	0.59	100%	3.1	0.8	9.3	1.0	0.8
4028	Prepare the Site	Bulldozer	1760	356	0.59	100%	2.8	0.8	9.6	0.9	0.7
4029	Prepare the Site	Dump Truck	1760	500	0.556818182	100%	15.5	1.3	4.0	1.0	0.6
4030	Prepare the Site	Grader	1760	147	0.54	100%	3.8	1.5	9.6	0.9	1.0
4031	Pavement	Trencher	1760	27	0.64	100%	9.1	1.5	10.0	0.9	1.4
4032	Pavement	Compactor	1760	8	0.43	100%	3.1	0.8	9.3	0.9	0.9
4033	Asphalt Paving	Other Construction Equipment	1760	161	0.62	100%	9.2	1.4	11.0	0.9	1.4
4034	Asphalt Paving	Tractors	1760	71	0.38	100%	6.8	1.4	10.1	0.9	1.1
4035	Asphalt Paving	Paver, Asphalt	1760	77	0.56	100%	3.2	0.6	10.3	0.9	0.9
4036											
4037			1000 used to convert grams to 1000's gram								
4038											
4039											
4040											
4041											

4042				**Emissions** (1000 g/year)		
4043	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4044	Grader	530.89	215.15	1341.20	121.55	139.71
4045	Roller	318.68	82.24	956.05	102.80	80.19
4046	Bulldozer	1035.08	310.52	3548.84	343.79	243.98
4047	Grader	530.89	215.15	1341.20	121.55	139.71
4048	Water Truck	17517.50	2548.00	3089.45	318.50	318.50
4049	Tractors	322.90	66.48	479.60	40.36	49.86
4050	Roller	318.68	82.24	956.05	102.80	80.19
4051	Bulldozer	1035.08	310.52	3548.84	343.79	243.98
4052	Loader	322.90	66.48	479.60	40.36	49.86
4053	Dump Truck	7595.00	637.00	1960.00	490.00	294.00
4054	Grader	530.89	215.15	1341.20	121.55	139.71
4055	Water Truck	17517.50	2548.00	3089.45	318.50	318.50
4056	Tractors	322.90	66.48	479.60	40.36	49.86
4057	Roller	318.68	82.24	956.05	102.80	80.19
4058	Bulldozer	1035.08	310.52	3548.84	343.79	243.98
4059	Loader	322.90	66.48	479.60	40.36	49.86
4060	Dump Truck	7595.00	637.00	1960.00	490.00	294.00
4061	Grader	530.89	215.15	1341.20	121.55	139.71
4062	Roller	318.68	82.24	956.05	102.80	80.19
4063	Bulldozer	1035.08	310.52	3548.84	343.79	243.98
4064	Dump Truck	7595.00	637.00	1960.00	490.00	294.00
4065	Grader	530.89	215.15	1341.20	121.55	139.71
4066	Trencher	277.97	46.84	304.74	28.28	43.79
4067	Compactor	18.77	4.84	56.31	5.63	5.45
4068	Other Construction Equipment	1616.29	247.71	1934.27	163.39	252.98
4069	Tractors	322.90	66.48	479.60	40.36	49.86
4070	Paver, Asphalt	242.85	45.53	781.68	70.58	68.30
4071						
4072				**Emissions** (tons/year)		
4073	**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4074	Grader	0.59	0.24	1.48	0.13	0.15
4075	Roller	0.35	0.09	1.05	0.11	0.09
4076	Bulldozer	1.14	0.34	3.91	0.38	0.27
4077	Grader	0.59	0.24	1.48	0.13	0.15
4078	Water Truck	19.31	2.81	3.41	0.35	0.35
4079	Tractors	0.36	0.07	0.53	0.04	0.05
4080	Roller	0.35	0.09	1.05	0.11	0.09
4081	Bulldozer	1.14	0.34	3.91	0.38	0.27
4082	Loader	0.36	0.07	0.53	0.04	0.05
4083	Dump Truck	8.37	0.70	2.16	0.54	0.32
4084	Grader	0.59	0.24	1.48	0.13	0.15
4085	Water Truck	19.31	2.81	3.41	0.35	0.35

4086	Tractors	0.36	0.07	0.53	0.04	0.05
4087	Roller	0.35	0.09	1.05	0.11	0.09
4088	Bulldozer	1.14	0.34	3.91	0.38	0.27
4089	Loader	0.36	0.07	0.53	0.04	0.05
4090	Dump Truck	8.37	0.70	2.16	0.54	0.32
4091	Grader	0.59	0.24	1.48	0.13	0.15
4092	Roller	0.35	0.09	1.05	0.11	0.09
4093	Bulldozer	1.14	0.34	3.91	0.38	0.27
4094	Dump Truck	8.37	0.70	2.16	0.54	0.32
4095	Grader	0.59	0.24	1.48	0.13	0.15
4096	Trencher	0.31	0.05	0.34	0.03	0.05
4097	Compactor	0.02	0.01	0.06	0.01	0.01
4098	Other Construction Equipment	1.78	0.27	2.13	0.18	0.28
4099	Tractors	0.36	0.07	0.53	0.04	0.05
4100	Paver, Asphalt	0.27	0.05	0.86	0.08	0.08
4101		**76.79**	**11.39**	**46.58**	**5.48**	**4.56**
4102						
4103						
4104						

4105		Data				
4106	Equipment	Sum of CO	Sum of HC	Sum of NO:	Sum of SOx	Sum of PM10
4107	Bulldozer	4.56	1.37	15.65	1.52	1.08
4108	Compactor	0.02	0.01	0.06	0.01	0.01
4109	Dump Truck	25.12	2.11	6.48	1.62	0.97
4110	Grader	2.93	1.19	7.39	0.67	0.77
4111	Loader	0.71	0.15	1.06	0.09	0.11
4112	Other Construction Equipment	1.78	0.27	2.13	0.18	0.28
4113	Paver, Asphalt	0.27	0.05	0.86	0.08	0.08
4114	Roller	1.41	0.36	4.22	0.45	0.35
4115	Tractors	1.07	0.22	1.59	0.13	0.16
4116	Trencher	0.31	0.05	0.34	0.03	0.05
4117	Water Truck	38.62	5.62	6.81	0.70	0.70
4118	Grand Total	76.79	11.39	46.58	5.48	4.56
4119						
4120						
4121						
4122						
4123						
4124						
4125						
4126						
4127						

Line #	**Runway Drains**									
								Emissions Factors (grams/HP-hr)		
4128	Equipment	Operating Hours	HP	LF	Usage					
4129						**CO**	**HC**	**NOx**	**SOx**	**PM10**
4130	Bulldozer	200	356	0.59	100%	2.80	0.84	9.60	0.93	0.66
4131	Compactor	200	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
4132	Dump Truck	200	500	0.5568182	100%	15.50	1.30	4.00	1.00	0.60
4133	Grader	200	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
4134	Pickup Truck	200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
4135	Roller	200	99	0.59	100%	3.10	0.80	9.30	1.00	0.78
4136	Water Truck	200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
4137										
								Emissions (1000 grams/year)		
4138										
4139					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4140					Bulldozer	117.62	35.29	403.28	39.07	27.73
4141					Compactor	2.13	0.55	6.40	0.64	0.62
4142					Dump Truck	863.07	72.39	222.73	55.68	33.41
4143					Grader	60.33	24.45	152.41	13.81	15.88
4144					Pickup Truck	1990.63	289.55	351.07	36.19	36.19
4145					Roller	36.21	9.35	108.64	11.68	9.11
4146					Water Truck	1990.63	289.55	351.07	36.19	36.19
4147					Total	5060.62	721.11	1595.60	193.27	159.13
4148										
4149	1000	used to convert grams to 1000's gram								
4150										
4151										
								Emissions (tons/year)		
4152										
4153					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4154					Bulldozer	0.13	0.04	0.44	0.04	0.03
4155					Compactor	0.00	0.00	0.01	0.00	0.00
4156					Dump Truck	0.95	0.08	0.25	0.06	0.04
4157					Grader	0.07	0.03	0.17	0.02	0.02
4158					Pickup Truck	2.19	0.32	0.39	0.04	0.04
4159					Roller	0.04	0.01	0.12	0.01	0.01
4160					Water Truck	2.19	0.32	0.39	0.04	0.04
4161					Total	**5.58**	**0.79**	**1.76**	**0.21**	**0.18**
4162										
4163										
4164										

Line #	Runway Safety Area (RSA)									
4165	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
4166						**CO**	**HC**	**NOx**	**SOx**	**PM10**
4167	Backhoe	1200	71	0.38	100%	6.80	1.40	10.10	0.85	1.05
4168	Compactor	1200	8	0.43	100%	3.10	0.80	9.30	0.93	0.90
4169	Dump Truck	1200	500	0.5568182	100%	15.50	1.30	4.00	1.00	0.60
4170	Grader	1200	147	0.54	100%	3.80	1.54	9.60	0.87	1.00
4171	Pickup Truck	1200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
4172	Roller	1200	99	0.59	100%	3.10	0.80	9.30	1.00	0.78
4173	Water Truck	1200	325	0.5568182	100%	55.00	8.00	9.70	1.00	1.00
4174										
4175						**Emissions**		(1000 grams/year)		
4176					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4177					Backhoe	220.16	45.33	327.00	27.52	33.99
4178					Compactor	12.80	3.30	38.39	3.84	3.72
4179					Dump Truck	5178.41	434.32	1336.36	334.09	200.45
4180					Grader	361.97	146.69	914.46	82.87	95.26
4181					Pickup Truck	11943.75	1737.27	2106.44	217.16	217.16
4182					Roller	217.29	56.07	651.86	70.09	54.67
4183					Water Truck	11943.75	1737.27	96.55	0.25	4.27
4184					Total	29878.12	4160.26	5471.05	735.82	609.52
4185										
4186	1000	used to convert grams to 1000's gram								
4187										
4188								**Emissions** (tons/year)		
4189					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4190					Backhoe	0.24	0.05	0.36	0.03	0.04
4191					Compactor	0.01	0.00	0.04	0.00	0.00
4192					Dump Truck	5.71	0.48	1.47	0.37	0.22
4193					Grader	0.40	0.16	1.01	0.09	0.11
4194					Pickup Truck	13.17	1.92	2.32	0.24	0.24
4195					Roller	0.24	0.06	0.72	0.08	0.06
4196					Water Truck	13.17	1.92	0.11	0.00	0.00
4197					Total	**32.93**	**4.59**	**6.03**	**0.81**	**0.67**
4198										
4199										
4200										
4201										
4202										

Line #	Runway Surface									
4203	**Equipment**	**Operating Hours**	**HP**	**LF**	**Usage**	**Emissions Factors** (grams/HP-hr)				
4204						**CO**	**HC**	**NOx**	**SOx**	**PM10**
4205	Asphalt Paver	200	77	0.56	1	3.20	0.60	10.30	0.93	0.90
4206	Bulldozer	200	356	0.59	1	2.80	0.84	9.60	0.93	0.66
4207	Cold Planer	200	625	0.5568182	1	2.80	0.84	9.60	0.89	0.80
4208	Compactor	200	8	0.43	1	3.10	0.80	9.30	0.93	0.90
4209	Dump Truck	200	500	0.5568182	1	15.50	1.30	4.00	1.00	0.60
4210	Grader	200	147	0.54	1	3.80	1.54	9.60	0.87	1.00
4211	Loader	200	71	0.38	1	6.80	1.40	10.10	0.85	1.05
4212	Paving Equipment	200	99	0.53	1	4.60	1.01	11.01	0.93	0.90
4213	Roller	200	99	0.59	1	3.10	0.80	9.30	1.00	0.78
4214	Tractors	200	71	0.38	1	6.80	1.40	10.10	0.85	1.05
4215	Triaxle	200	600	0.5568182	1	15.50	1.30	4.00	1.00	0.60
4216	Water Truck	200	325	0.5568182	1	55.00	8.00	9.70	1.00	1.00
4217										
4218	1000	used to convert grams to 1000's gram								
4219										
4220										
4221						**Emissions** (1000 g/year)				
4222					**Equipment**	**CO**	**HC**	**NOx**	**SOx**	**PM10**
4223					Asphalt Paver	27.60	5.17	88.83	8.02	7.76
4224					Bulldozer	117.62	35.29	403.28	39.07	27.73
4225					Cold Planer	194.89	58.47	668.18	61.95	55.68
4226					Compactor	2.13	0.55	6.40	0.64	0.62
4227					Dump Truck	863.07	72.39	222.73	55.68	33.41
4228					Grader	60.33	24.45	152.41	13.81	15.88
4229					Loader	36.69	7.55	54.50	4.59	5.67
4230					Paving Equipment	48.27	10.60	115.54	9.76	9.44
4231					Roller	36.21	9.35	108.64	11.68	9.11
4232					Tractors	36.69	7.55	54.50	4.59	5.67
4233					Triaxle	1035.68	86.86	267.27	66.82	40.09
4234					Water Truck	1990.63	289.55	351.07	36.19	36.19
4235					Total	4449.81	607.78	2493.35	312.79	247.25
4236										
4237										
4238										

Equipment	Emissions (tons/year) CO	HC	NOx	SOx	PM10
Asphalt Paver	0.03	0.01	0.10	0.01	0.01
Bulldozer	0.13	0.04	0.44	0.04	0.03
Cold Planer	0.21	0.06	0.74	0.07	0.06
Compactor	0.00	0.00	0.01	0.00	0.00
Dump Truck	0.95	0.08	0.25	0.06	0.04
Grader	0.07	0.03	0.17	0.02	0.02
Loader	0.04	0.01	0.06	0.01	0.01
Paving Equipment	0.05	0.01	0.13	0.01	0.01
Roller	0.04	0.01	0.12	0.01	0.01
Tractors	0.04	0.01	0.06	0.01	0.01
Triaxle	1.14	0.10	0.29	0.07	0.04
Water Truck	2.19	0.32	0.39	0.04	0.04
Total	**4.91**	**0.67**	**2.75**	**0.34**	**0.27**

Line #	**Runway Marking**												
4281	**Equipment**	**Description**	**Quantity / Time**	**Units**	**HP**	**Load Factor**	**Usage**	**Number of Equipment Units**	**Emissions Factors** g/HP(hr)				
4282									**CO**	**VOC / HC**	**NOx**	**SOx**	**PM10**
4283									g/hp(hr)	g/hp(hr)	g/hp(hr)	g/hp(hr)	g/hp(hr)
4284	Paint	Paint (gallons)	2492	gallons	1	1	100%	1	0	0.99	0	0	0
4285	Pickup Truck	Truck for marking	4	hours	325	0.5568	100%	1	55.00	8.00	9.70	1.00	1.00
4286	Generator <50 HP	Air Compressor	4	hours	22	0.74	100%	2	5.00	1.20	8.00	0.93	1.00
4287	Pickup Truck	Truck for detail marking	4	hours	325	0.5568	100%	3	55.00	8.00	9.70	1.00	1.00
4288	Generator <50 HP	Small hand sprayer	4	hours	22	0.74	100%	4	5.00	1.20	8.00	0.93	1.00
4289	Pickup Truck	Truck for paint removal	3	hours	325	0.5568	100%	5	55.00	8.00	9.70	1.00	1.00
4290	Pump <50 HP	Water pump	3	hours	23	0.74	100%	6	5.00	1.20	8.00	0.93	1.00
4291	Sweepers	Sweeper-Chassis engine	3	hours	97	0.68	100%	7	6.06	1.57	14.00	0.93	1.60
4292	Sweepers	Sweeper-Auxiliary engine	3	hours	97	0.68	100%	8	6.06	1.57	14.00	0.93	1.60
4293	1000	used to convert grams to 1000's gram											
4294													
4295													
4296									**Total Emissions** (grams per project)				
4297													
4298					Description			Equipment	**CO**	**VOC / HC**	**NOx**	**SOx**	**PM10**
4299					Paint				0	2467.08	0	0	0
4300					Truck for marking			Pickup Truck	39812.5	5790.909	7021.477	723.8636	723.8636
4301					Air Compressor			Generator <50 HP	651.2	156.288	1041.92	121.1232	130.24
4302					Truck for detail marking			Pickup Truck	119437.5	17372.73	21064.43	2171.591	2171.591
4303					Small hand sprayer			Generator <50 HP	1302.4	312.576	2083.84	242.2464	260.48
4304					Truck for paint removal			Pickup Truck	149296.9	21715.91	26330.54	2714.489	2714.489
4305					Water pump			Pump <50 HP	1531.8	367.632	2450.88	284.9148	306.36

4306	Sweeper-Chassis engine	Sweepers	8394.07	2174.701	19392.24	1288.199	2216.256
4307	Sweeper-Auxiliary engine	Sweepers	9593.222	2485.373	22162.56	1472.227	2532.864
4308		Total	330019.6	52843.2	101547.9	9018.654	11056.14
4309							
4310							
4311							
4312							
4313							
4314							
4315							
4316							
4317							
4318							
4319							
4320							
4321							
4322			**Total Emissions**				
4323			(1000's grams per project)				
4324		Equipment	**CO**	**VOC/HC**	**NOx**	**SOx**	**PM10**
4325	Paint	Paint	0	2.47	0	0	0
4326	Truck for marking	Pickup Truck	39.81	5.79	7.02	0.72	0.72
4327	Air Compressor	Generator <50 HP	0.65	0.16	1.04	0.12	0.13
4328	Truck for detail marking	Pickup Truck	119.44	17.37	21.06	2.17	2.17
4329	Small hand sprayer	Generator <50 HP	1.30	0.31	2.08	0.24	0.26
4330	Truck for paint removal	Pickup Truck	149.30	21.72	26.33	2.71	2.71
4331	Water pump	Pump <50 HP	1.53	0.37	2.45	0.28	0.31
4332	Sweeper-Chassis engine	Sweepers	8.39	2.17	19.39	1.29	2.22
4333	Sweeper-Auxiliary engine	Sweepers	9.59	2.49	22.16	1.47	2.53
4334		Total	330.02	52.84	101.55	9.02	11.06
4335							
4336							
4337			**Total Emissions**				
4338			(tons per year)				
4339		Equipment	**CO**	**VOC/HC**	**NOx**	**SOx**	**PM10**
4340	Paint	Paint	0.00	1.23	0.00	0.00	0.00
4341	Truck for marking	Pickup Truck	0.04	0.01	0.01	0.00	0.00
4342	Air Compressor	Generator <50 HP	0.00	0.00	0.00	0.00	0.00

4343	Truck for detail marking	Pickup Truck	0.13	0.02	0.02	0.00	0.00
4344	Small hand sprayer	Generator <50 HP	0.00	0.00	0.00	0.00	0.00
4345	Truck for paint removal	Pickup Truck	0.16	0.02	0.03	0.00	0.00
4346	Water pump	Pump <50 HP	0.00	0.00	0.00	0.00	0.00
4347	Sweeper-Chassis engine	Sweepers	0.01	0.00	0.02	0.00	0.00
4348	Sweeper-Auxiliary engine	Sweepers	0.01	0.00	0.02	0.00	0.00
4349		Total	**0.36**	**1.29**	**0.11**	**0.01**	**0.01**

4350

4351 For a 13,000-foot runway:

4352 Assume Schwarze Industries 2002 Model A4000 Regenerative Diesel Air Power Sweeper.

4353 Information provided by Davies Imperial Coatings, Inc., Hammond, IN.

4354 City of Chicago Data Sheet for paint emissions

4355 Where 2,000 pounds = 1 short ton, g = .03527 avoird oz, and 16 oz = pound.

4356 Calculation: 2492 gallons at 115 ft2/gal

4357 Note: Rate of application - Covering 115 sq. ft per gallon of paint; applying 623 gallons of paint per hour.

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ATTACHMENT H-2
EMISSIONS AND DISPERSION MODELING SYSTEM (EDMS) INPUT AND OUTPUT FILES

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EDMS 4.4 Model Inputs for SGU 2003 Existing Rev

Study Created:	Wednesday, March 15, 2006
Date Printed:	Wednesday, March 15, 2006

Study Pathname: P:\St. George\EIS\Consultants\VLR\REV EDMS RUNS_spdsheets_EDMS prg\SGU 2003 Existing Rev\SGU 2003 Existing Rev.EDM

Airport Name:	ST GEORGE MUNI
Airport ID:	SGU
State:	UT
Elevation:	2941 (feet above MSL)
Average temperature:	62.3 (°F)
Mixing Height:	4757 (feet)
Year being studied:	2003
Default Taxi Time:	6.0 (minutes)

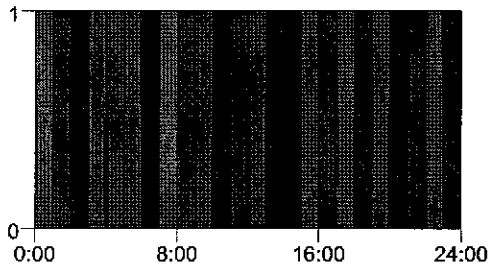
Existing airport 2003 - revised 2/1/2006 to add Air Tour Helicopters

This study is only an Emissions Inventory.
System aircraft times in mode are□
performance based.
GSE are modeled based upon aircraft LTO.
MOBILE version 6 used for vehicular emissions.
Diesel Fuel Sulfur Content: 340 (parts per million)
The emissions inventory is reported in kilograms.

Hourly Operational Profiles

Name: DEFAULT

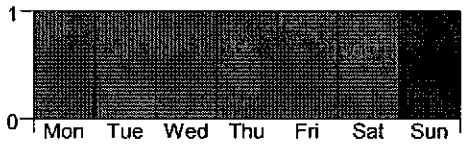
Hour	Fraction of Peak	Hour	Fraction of Peak	Hour	Fraction of Peak
1	1.0000	9	1.0000	17	1.0000
2	1.0000	10	1.0000	18	1.0000
3	1.0000	11	1.0000	19	1.0000
4	1.0000	12	1.0000	20	1.0000
5	1.0000	13	1.0000	21	1.0000
6	1.0000	14	1.0000	22	1.0000
7	1.0000	15	1.0000	23	1.0000
8	1.0000	16	1.0000	24	1.0000



Daily Operational Profiles

Name: DEFAULT

Day	Fraction of Peak	Day	Fraction of Peak
Monday	1.0000	Friday	1.0000
Tuesday	1.0000	Saturday	1.0000
Wednesday	1.0000	Sunday	1.0000
Thursday	1.0000		



Monthly Operational Profiles

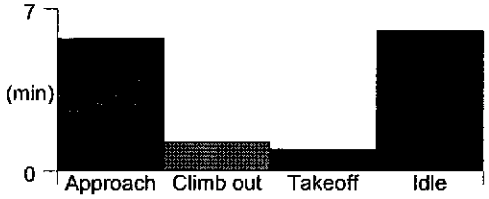
Name: DEFAULT

Month	Fraction of Peak	Month	Fraction of Peak
January	1.0000	July	1.0000
February	1.0000	August	1.0000
March	1.0000	September	1.0000
April	1.0000	October	1.0000
May	1.0000	November	1.0000
June	1.0000	December	1.0000

Aircraft

Aircraft Name:	Annual LTOs:	0
Canadair Reg-700	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
CF34-8C1	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2020	Category:	LCJP

Takeoff weight (lbs):	43100
Approach angle (°):	3
Takeoff Time (minutes):	0.96
Climb out Time (minutes):	1.28
Approach Time (minutes):	5.92
Total Idle Time (minutes):	6.26
Taxi & Queue Time (minutes):	6.00



Assigned APU:	APU GTCP 85 (200 HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Gasoline	15.00	97	0.2500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	132
Swearingen Metro 2	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TPE331-3	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003	Category:	SCTP

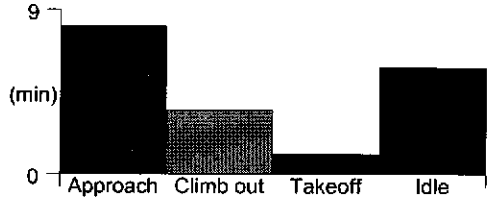
Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	6.09
Taxi & Queue Time (minutes):	6.00

No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:	Annual LTOs:	132
Jetstream 32	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TPE331-12	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003	Category:	SCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	6.34
Taxi & Queue Time (minutes):	6.00



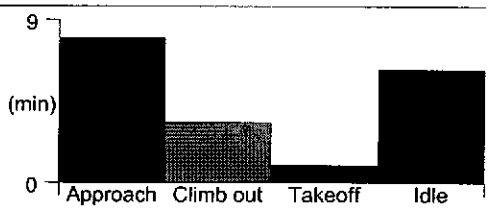
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
Cargo 2003

Annual LTOs:	526
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	6.29
Taxi & Queue Time (minutes):	6.00



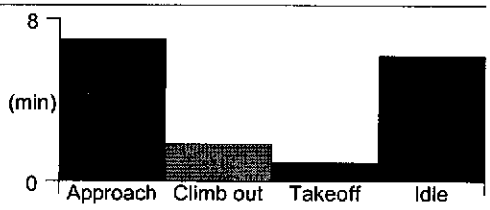
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
CITATION II
Engine Type:
JT15D-4 (B,C,D)
Identification:
Taxi 2003

Annual LTOs:	135
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	14100
Approach angle (°):	3
Takeoff Time (minutes):	0.93
Climb out Time (minutes):	1.85
Approach Time (minutes):	7.03
Total Idle Time (minutes):	6.21
Taxi & Queue Time (minutes):	6.00



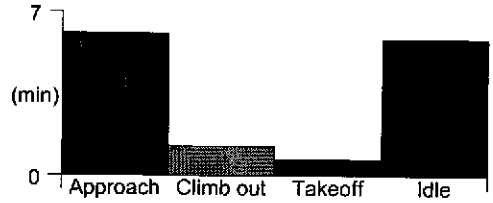
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Learjet 35/36
Engine Type:
TFE 731-2-2B
Identification:
Taxi 2003

Annual LTOs:	137
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	18300
Approach angle (°):	3
Takeoff Time (minutes):	0.74
Climb out Time (minutes):	1.34
Approach Time (minutes):	6.47
Total Idle Time (minutes):	6.23
Taxi & Queue Time (minutes):	6.00



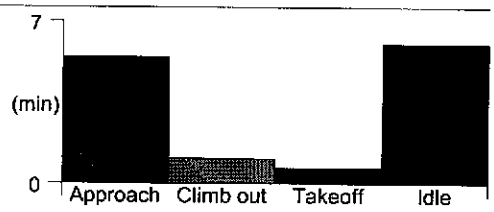
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Gulfstream IV
Engine Type:
TAY Mk611-8
Identification:
Taxi 2003

Annual LTOs:	137
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	71700
Approach angle (°):	3
Takeoff Time (minutes):	0.69
Climb out Time (minutes):	1.10
Approach Time (minutes):	5.61
Total Idle Time (minutes):	6.22
Taxi & Queue Time (minutes):	6.00

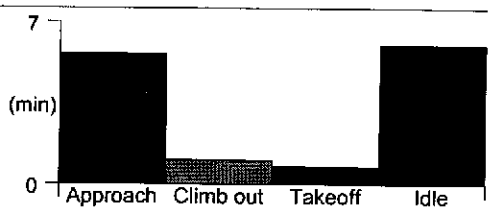


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	194	0.7500	Def. Avg.

Aircraft Name:
Gulfstream V
Engine Type:
BR700-710A1-10 GulfV
Identification:
Taxi 2003

Annual LTOs:	137
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	76925
Approach angle (°):	3
Takeoff Time (minutes):	0.79
Climb out Time (minutes):	1.08
Approach Time (minutes):	5.79
Total Idle Time (minutes):	6.21
Taxi & Queue Time (minutes):	6.00

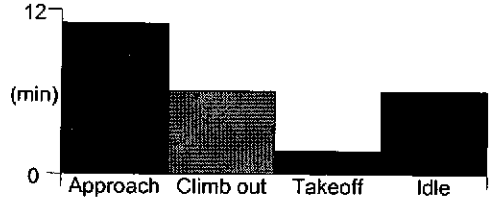


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Cessna 172 Skyhawk
Engine Type:
O-320
Identification:
GA 2003

Annual LTOs:	12562
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPP

Takeoff weight (lbs):	2450
Approach angle (°):	3
Takeoff Time (minutes):	1.75
Climb out Time (minutes):	6.16
Approach Time (minutes):	11.18
Total Idle Time (minutes):	6.15
Taxi & Queue Time (minutes):	6.00



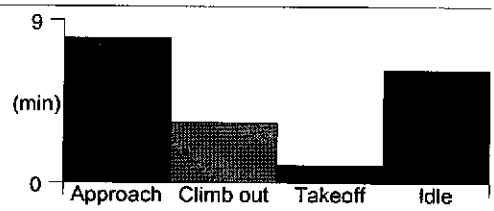
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Aztec
Engine Type:
TIO-540-J2B2
Identification:
GA 2003

Annual LTOs:	2738
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	6.29
Taxi & Queue Time (minutes):	6.00



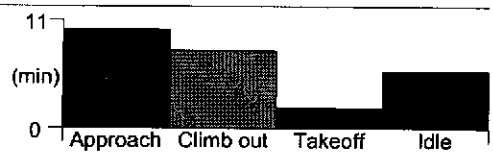
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Robinson R22
Engine Type:
O-320
Identification:
GA Helicopter 2003

Annual LTOs:	1825
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPH

Takeoff Time (minutes):	2.17
Climb out Time (minutes):	8.13
Approach Time (minutes):	10.31
Total Idle Time (minutes):	6.00
Taxi & Queue Time (minutes):	6.00



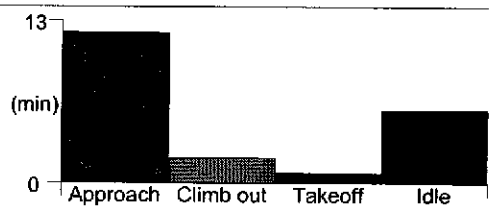
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
King Air 200
Engine Type:
PT6A-41
Identification:
Military 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	6.09
Taxi & Queue Time (minutes):	6.00



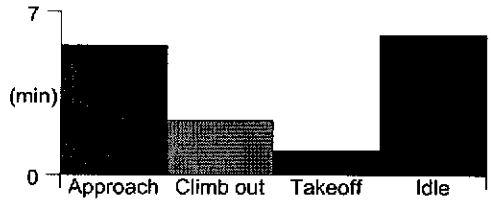
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
C-21-A
Engine Type:
TFE 731-2-2B
Identification:
Military 2003 (Lear)

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMJP

Takeoff weight (lbs):	65500
Approach angle (°):	3
Takeoff Time (minutes):	1.09
Climb out Time (minutes):	2.40
Approach Time (minutes):	5.70
Total Idle Time (minutes):	6.18
Taxi & Queue Time (minutes):	6.00



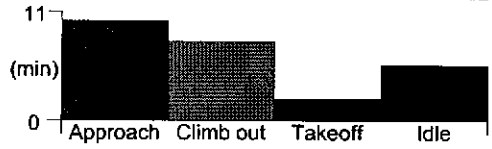
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 Super Seasprite
Engine Type:
T700-GE-401 -401C
Identification:
Military Helicopter 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	6.00
Taxi & Queue Time (minutes):	6.00



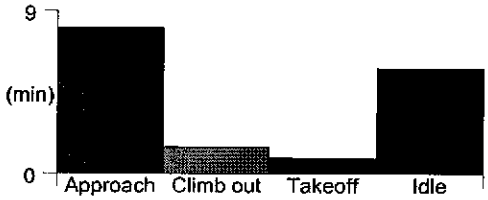
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Merlin
Engine Type:
TPE331-3
Identification:
Comm 2003 (EMB 120)

Annual LTOs:	3028
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	9850
Approach angle (°):	3
Takeoff Time (minutes):	0.90
Climb out Time (minutes):	1.52
Approach Time (minutes):	8.47
Total Idle Time (minutes):	6.13
Taxi & Queue Time (minutes):	6.00



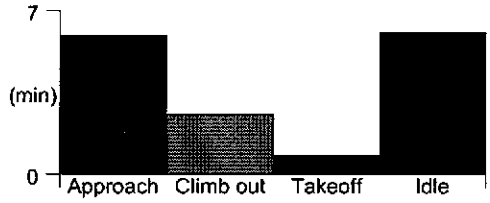
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.

Aircraft Name: Embraer ERJ 135/140
Engine Type: AE3007A1/3
Identification: Comm 2010 (CRJ 100)

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	41800
Approach angle (°):	3
Takeoff Time (minutes):	0.84
Climb out Time (minutes):	2.66
Approach Time (minutes):	6.23
Total Idle Time (minutes):	6.34
Taxi & Queue Time (minutes):	6.00



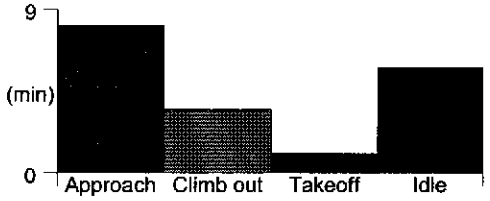
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name: FH-227
Engine Type: RDa7
Identification: Comm 2020 (Dash 8)

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	6.34
Taxi & Queue Time (minutes):	6.00



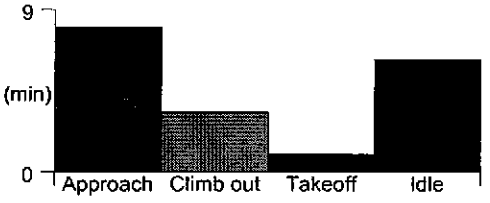
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name: Navajo
Engine Type: TIO-540-J2B2
Identification: LTOs for TGOs

Annual LTOs:	1825
Annual TGO:	9125
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	6.29
Taxi & Queue Time (minutes):	6.00



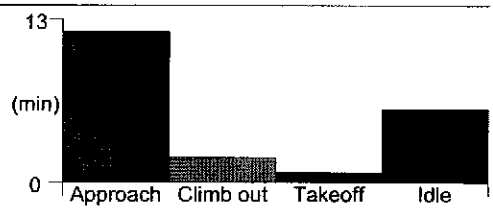
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Porter PC6/B2
Engine Type:
PT6A-42
Identification:
Cargo 2003 (Cess 208)

Annual LTOs:	263
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTC

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	6.09
Taxi & Queue Time (minutes):	6.00



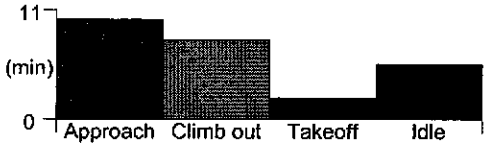
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
UH-1N Iroquois
Engine Type:
T400-CP-400
Identification:
Air Tour SA350D

Annual LTOs:	21
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	6.00
Taxi & Queue Time (minutes):	6.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Lift	Diesel	10.00	115	0.5000	Def. Avg.
Generator	Diesel	120.00	158	0.8200	Def. Avg.
Fuel Truck	LPG	10.00	420	0.2500	Def. Avg.

Aircraft Name:
H-2 SEASPRITE
Engine Type:
T58-GE-8F
Identification:
Air Tour SA365N

Annual LTOs:	2
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	6.00
Taxi & Queue Time (minutes):	6.00

No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Parking Facilities

Parking Facility Name: Pass Terminal	Vehicles per Year:	40000
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	9.44
	THC (g/veh):	1.61
	NMHC (g/veh):	1.55
	VOC (g/veh):	1.54
	NOX (g/veh):	0.72
	SOX (g/veh):	0.02
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Cargo Hangar	Vehicles per Year:	10950
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	9.44
	THC (g/veh):	1.61
	NMHC (g/veh):	1.55
	VOC (g/veh):	1.54
	NOX (g/veh):	0.72
	SOX (g/veh):	0.02
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Exec Hangar	Vehicles per Year:	10950
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	9.44
	THC (g/veh):	1.61
	NMHC (g/veh):	1.55
	VOC (g/veh):	1.54
	NOX (g/veh):	0.72
	SOX (g/veh):	0.02
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: FBO Hangar	Vehicles per Year:	18250
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	9.44
THC (g/veh):	1.61
NMHC (g/veh):	1.55
VOC (g/veh):	1.54
NOX (g/veh):	0.72
SOX (g/veh):	0.02
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Parking Facility Name:
Large T-Hangar

Vehicles per Year:	9125
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	9.44
THC (g/veh):	1.61
NMHC (g/veh):	1.55
VOC (g/veh):	1.54
NOX (g/veh):	0.72
SOX (g/veh):	0.02
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Roadways

Roadway Name:
Access Roadway

Vehicles per Year:	89275
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	35
Round Trip Distance (miles):	2.580

The user has NOT edited the following emission factors.

CO (g/veh-mi):	22.058
THC (g/veh-mi):	1.952
NMHC (g/veh-mi):	1.866
VOC (g/veh-mi):	1.852
NOX (g/veh-mi):	2.212
SOX (g/veh-mi):	0.0922
PM-10 (g/veh-mi):	0.0651
PM-2.5 (g/veh-mi):	0.0474

Stationary Sources

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Terminal

Thousands of Cubic Meters per Year:		150.70
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Exec Hangar

Thousands of Cubic Meters per Year:		1197.48
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
FBO Hangar

Thousands of Cubic Meters per Year:		284.39
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Dixie

Thousands of Cubic Meters per Year:		76.26
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category: Fuel Tank	Kiloliters per Year:		760.61
Type: Horizontal: Gasoline	Hourly Operational Profile:		DEFAULT
Identification: Direct Aviation AvGa	Daily Operational Profile:		DEFAULT
	Monthly Operational Profile:		DEFAULT
	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)
Category: Fuel Tank	Kiloliters per Year:		2830.66
Type: Horizontal: Jet Naphtha (JP-4)	Hourly Operational Profile:		DEFAULT
Identification: Direct Aviation JetA	Daily Operational Profile:		DEFAULT
	Monthly Operational Profile:		DEFAULT
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)
Category: Fuel Tank	Kiloliters per Year:		260.75
Type: Horizontal: Gasoline	Hourly Operational Profile:		DEFAULT
Identification: SGU Avia AvGas	Daily Operational Profile:		DEFAULT
	Monthly Operational Profile:		DEFAULT
	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Training Fires

Training Fire Name: ARFF	Gallons Burned per Year:	0.00
Fuel Burned: Propane	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

User-Created Aircraft

**My Aircraft

Category: LMJA
# of Engines: 1
Times in mode are the default values from the selected flight profile.

Flight Profile:	F-14A Tomcat	TF30-P-412A
Engines Emissions Data Source:	TF30-P-412A	

User-Created APUs

**My APU

Default Operating Time per LTO (minutes):	26.00
Emissions Data Source:	APU GTCP85 (200 HP)

End of Report

EDMS 4.4 Model Inputs for SGU 2010 NA Rev

Study Created:	Wednesday, March 15, 2006
Date Printed:	Wednesday, March 15, 2006

Study Pathname: P:\St. George\EIS\Consultants\VLR\REV EDMS RUNS_spdsheets_EDMS prg\SGU 2010 NA Rev\SGU 2010 NA Rev.EDM

Airport Name:	ST GEORGE MUNI
Airport ID:	SGU
State:	UT
Elevation:	2941 (feet above MSL)
Average temperature:	62.3 (°F)
Mixing Height:	4757 (feet)
Year being studied:	2010
Default Taxi Time:	7.0 (minutes)

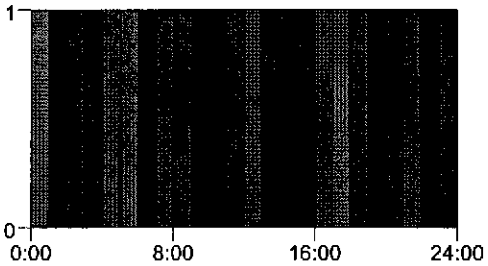
2010 No-Action Alternative - Revised 2/1/06 to add Air Tour Helicopters

This study is only an Emissions Inventory.
System aircraft times in mode are□
performance based.
GSE are modeled based upon aircraft LTO.
MOBILE version 6 used for vehicular emissions.
Diesel Fuel Sulfur Content: 11 (parts per million)
The emissions inventory is reported in kilograms.

Hourly Operational Profiles

Name: DEFAULT

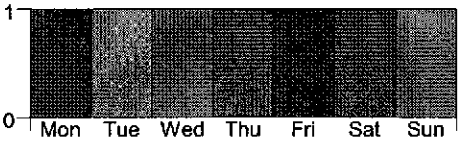
Hour	Fraction of Peak	Hour	Fraction of Peak	Hour	Fraction of Peak
1	1.0000	9	1.0000	17	1.0000
2	1.0000	10	1.0000	18	1.0000
3	1.0000	11	1.0000	19	1.0000
4	1.0000	12	1.0000	20	1.0000
5	1.0000	13	1.0000	21	1.0000
6	1.0000	14	1.0000	22	1.0000
7	1.0000	15	1.0000	23	1.0000
8	1.0000	16	1.0000	24	1.0000



Daily Operational Profiles

Name: DEFAULT

Day	Fraction of Peak	Day	Fraction of Peak
Monday	1.0000	Friday	1.0000
Tuesday	1.0000	Saturday	1.0000
Wednesday	1.0000	Sunday	1.0000
Thursday	1.0000		



Monthly Operational Profiles

Name: DEFAULT

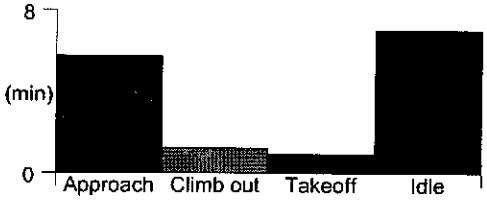
Month	Fraction of Peak	Month	Fraction of Peak
January	1.0000	July	1.0000
February	1.0000	August	1.0000
March	1.0000	September	1.0000
April	1.0000	October	1.0000
May	1.0000	November	1.0000
June	1.0000	December	1.0000

Aircraft

Aircraft Name: Canadair Reg-700
Engine Type: CF34-8C1
Identification: Comm 2020

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	43100
Approach angle (°):	3
Takeoff Time (minutes):	0.96
Climb out Time (minutes):	1.28
Approach Time (minutes):	5.92
Total Idle Time (minutes):	7.26
Taxi & Queue Time (minutes):	7.00



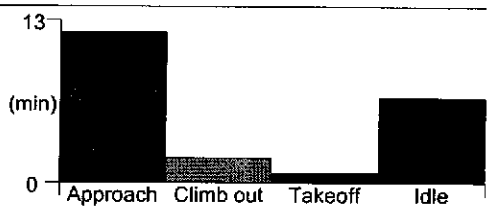
Assigned APU: APU GTCP 85 (200 HP) Op Time (mins): 26.00

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Gasoline	15.00	97	0.2500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name: Swearingen Metro 2
Engine Type: TPE331-3
Identification: Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	7.09
Taxi & Queue Time (minutes):	7.00



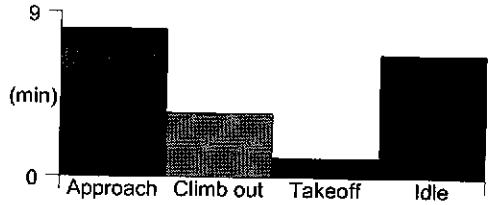
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name: Jetstream 32
Engine Type: TPE331-12
Identification: Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	7.34
Taxi & Queue Time (minutes):	7.00



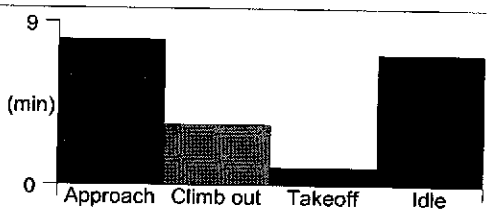
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
Cargo 2003

Annual LTOs:	520
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	7.29
Taxi & Queue Time (minutes):	7.00



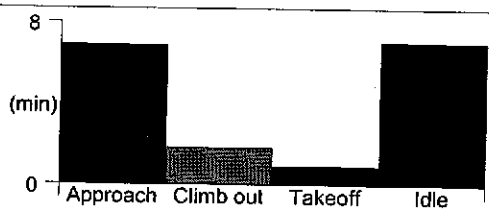
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
CITATION II
Engine Type:
JT15D-4 (B,C,D)
Identification:
Taxi 2003

Annual LTOs:	155
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	14100
Approach angle (°):	3
Takeoff Time (minutes):	0.93
Climb out Time (minutes):	1.85
Approach Time (minutes):	7.03
Total Idle Time (minutes):	7.21
Taxi & Queue Time (minutes):	7.00



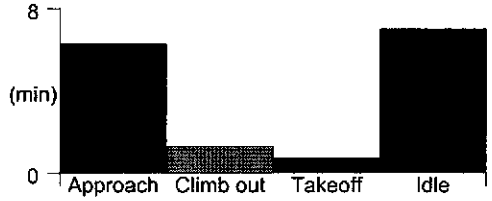
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Learjet 35/36
Engine Type:
TFE 731-2-2B
Identification:
Taxi 2003

Annual LTOs:	158
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	18300
Approach angle (°):	3
Takeoff Time (minutes):	0.74
Climb out Time (minutes):	1.34
Approach Time (minutes):	6.47
Total Idle Time (minutes):	7.23
Taxi & Queue Time (minutes):	7.00

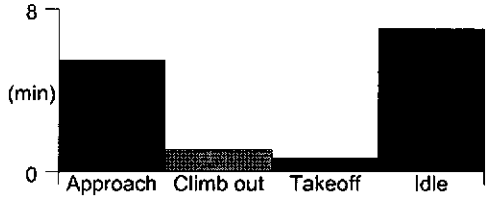


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	158
Gulfstream IV	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TAY Mk611-8	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	LCJP

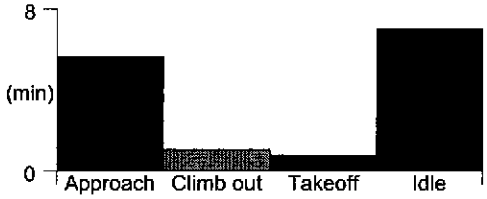
Takeoff weight (lbs):	71700
Approach angle (°):	3
Takeoff Time (minutes):	0.69
Climb out Time (minutes):	1.10
Approach Time (minutes):	5.61
Total Idle Time (minutes):	7.22
Taxi & Queue Time (minutes):	7.00



Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	194	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	158
Gulfstream V	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
BR700-710A1-10 GulfV	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	LCJP

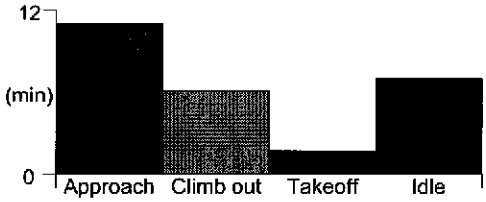
Takeoff weight (lbs):	76925
Approach angle (°):	3
Takeoff Time (minutes):	0.79
Climb out Time (minutes):	1.08
Approach Time (minutes):	5.79
Total Idle Time (minutes):	7.21
Taxi & Queue Time (minutes):	7.00



Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	13758
Cessna 172 Skyhawk	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
O-320	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
GA 2003	Category:	SGPP

Takeoff weight (lbs):	2450
Approach angle (°):	3
Takeoff Time (minutes):	1.75
Climb out Time (minutes):	6.16
Approach Time (minutes):	11.18
Total Idle Time (minutes):	7.15
Taxi & Queue Time (minutes):	7.00



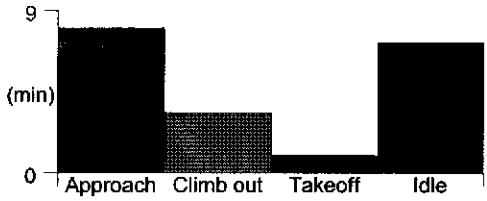
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Aztec
Engine Type:
TIO-540-J2B2
Identification:
GA 2003

Annual LTOs:	2738
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	7.29
Taxi & Queue Time (minutes):	7.00



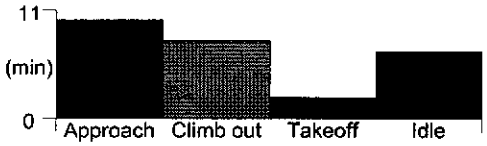
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Robinson R22
Engine Type:
O-320
Identification:
GA Helicopter 2003

Annual LTOs:	1825
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPH

Takeoff Time (minutes):	2.17
Climb out Time (minutes):	8.13
Approach Time (minutes):	10.31
Total Idle Time (minutes):	7.00
Taxi & Queue Time (minutes):	7.00



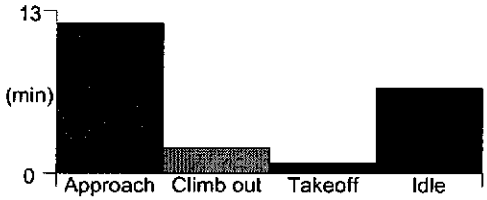
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
King Air 200
Engine Type:
PT6A-41
Identification:
Military 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	7.09
Taxi & Queue Time (minutes):	7.00



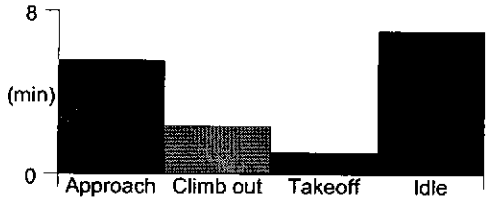
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
C-21-A
Engine Type:
TFE 731-2-2B
Identification:
Military 2003 (Lear)

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMJP

Takeoff weight (lbs):	65500
Approach angle (°):	3
Takeoff Time (minutes):	1.09
Climb out Time (minutes):	2.40
Approach Time (minutes):	5.70
Total Idle Time (minutes):	7.18
Taxi & Queue Time (minutes):	7.00



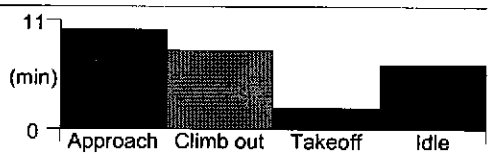
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 Super Seasprite
Engine Type:
T700-GE-401 -401C
Identification:
Military Helicopter 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	7.00
Taxi & Queue Time (minutes):	7.00



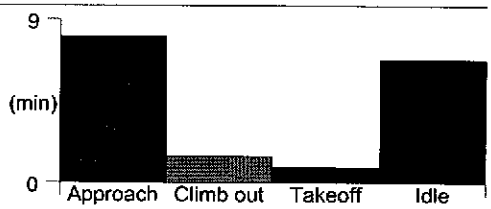
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Merlin
Engine Type:
TPE331-3
Identification:
Comm 2003 (EMB 120)

Annual LTOs:	3660
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	9850
Approach angle (°):	3
Takeoff Time (minutes):	0.90
Climb out Time (minutes):	1.52
Approach Time (minutes):	8.47
Total Idle Time (minutes):	7.13
Taxi & Queue Time (minutes):	7.00



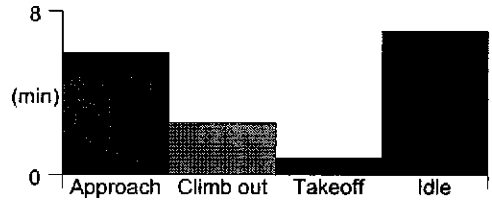
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.

Aircraft Name:
Embraer ERJ 135/140
Engine Type:
AE3007A1/3
Identification:
Comm 2010 (CRJ 100)

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	41800
Approach angle (°):	3
Takeoff Time (minutes):	0.84
Climb out Time (minutes):	2.66
Approach Time (minutes):	6.23
Total Idle Time (minutes):	7.34
Taxi & Queue Time (minutes):	7.00



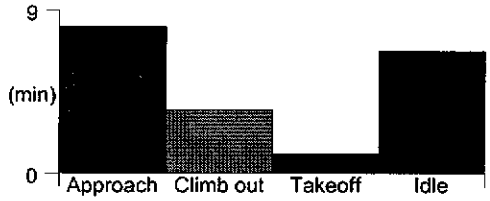
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
FH-227
Engine Type:
RDa7
Identification:
Comm 2020 (Dash 8)

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	7.34
Taxi & Queue Time (minutes):	7.00



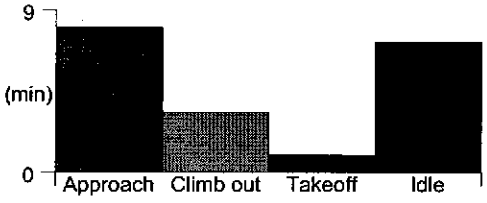
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
LTOs for TGOs

Annual LTOs:	1825
Annual TGO:	9125
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	7.29
Taxi & Queue Time (minutes):	7.00



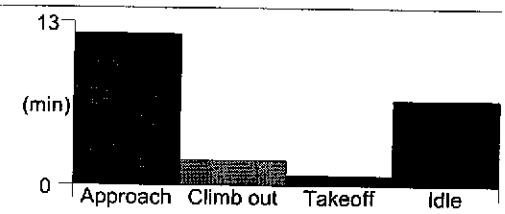
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Porter PC6/B2
Engine Type:
PT6A-42
Identification:
Cargo 2003 (Cess 208)

Annual LTOs:	260
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTC

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	7.09
Taxi & Queue Time (minutes):	7.00



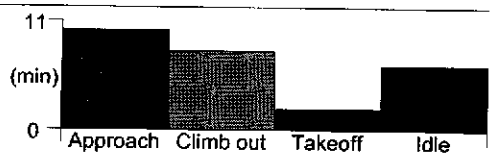
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
UH-1N Iroquois
Engine Type:
T400-CP-400
Identification:
Air Tour SA350D

Annual LTOs:	28
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	7.00
Taxi & Queue Time (minutes):	7.00



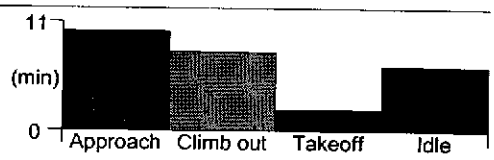
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Lift	Diesel	10.00	115	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 SEASPRITE
Engine Type:
T58-GE-8F
Identification:
Air Tour SA365N

Annual LTOs:	9
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	7.00
Taxi & Queue Time (minutes):	7.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Parking Facilities

Parking Facility Name: Pass Terminal	Vehicles per Year:	51686
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Cargo Hangar	Vehicles per Year:	11366
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Exec Hangar	Vehicles per Year:	12600
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: FBO Hangar	Vehicles per Year:	19524
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	3.80
THC (g/veh):	0.57
NMHC (g/veh):	0.54
VOC (g/veh):	0.54
NOX (g/veh):	0.38
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Parking Facility Name:
Large T-Hangar

Vehicles per Year:	9762
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	3.80
THC (g/veh):	0.57
NMHC (g/veh):	0.54
VOC (g/veh):	0.54
NOX (g/veh):	0.38
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Roadways

Roadway Name:
Access Roadway

Vehicles per Year:	104938
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	35
Round Trip Distance (miles):	2.580

The user has NOT edited the following emission factors.

CO (g/veh-mi):	9.323
THC (g/veh-mi):	0.807
NMHC (g/veh-mi):	0.770
VOC (g/veh-mi):	0.763
NOX (g/veh-mi):	1.156
SOX (g/veh-mi):	0.0088
PM-10 (g/veh-mi):	0.0418
PM-2.5 (g/veh-mi):	0.0258

Stationary Sources

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Large T Hangar

Thousands of Cubic Meters per Year:		332.18
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Terminal

Thousands of Cubic Meters per Year:		150.70
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Exec Hangar

Thousands of Cubic Meters per Year:		1197.48
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
FBO Hangar

Thousands of Cubic Meters per Year:		284.39
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Dixie

Thousands of Cubic Meters per Year:		76.26
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Fuel Tank
Type:
Horizontal: Jet Naphtha (JP-4)
Identification:
Air Sprrty JetA

Kiloliters per Year:		1671.21
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
Air Sprrty AvGas

Kiloliters per Year:		405.93
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
Direct Aviation AvGa

Kiloliters per Year:		405.93
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Jet Naphtha (JP-4)
Identification:
Direct Aviation JetA

Kiloliters per Year:		1671.21
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
SGU Avia AvGas

Kiloliters per Year:		278.32
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Training Fires

Training Fire Name:	Gallons Burned per Year:	0.00
ARFF	Hourly Operational Profile:	DEFAULT
Fuel Burned:	Daily Operational Profile:	DEFAULT
Propane	Monthly Operational Profile:	DEFAULT

User-Created Aircraft

**My Aircraft

Category: LMJA
# of Engines: 1
Times in mode are the default values from the selected flight profile.

Flight Profile:	F-14A Tomcat	TF30-P-412A
Engines Emissions Data Source:	TF30-P-412A	

User-Created APUs

**My APU

Default Operating Time per LTO (minutes):	26.00
Emissions Data Source:	APU GTCP85 (200 HP)

End of Report

EDMS 4.4 Model Inputs for SGU 2010 PA Rev

Study Created:	Wednesday, March 15, 2006
Date Printed:	Wednesday, March 15, 2006

Study Pathname: P:\St. George\EIS\Consultants\VLR\REV EDMS RUNS_spdsheets_EDMS prg\SGU 2010 PA Rev\SGU 2010 PA Rev.EDM

Airport Name:	ST GEORGE MUNI
Airport ID:	SGU
State:	UT
Elevation:	2941 (feet above MSL)
Average temperature:	62.3 (°F)
Mixing Height:	4757 (feet)
Year being studied:	2010
Default Taxi Time:	9.0 (minutes)

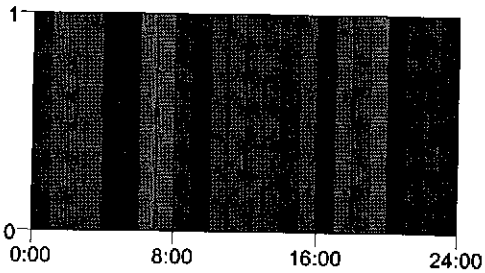
2010 Proposed Action Alternative - Revised on 2/2/06 to add Air Tour Helicopters

This study is only an Emissions Inventory.
System aircraft times in mode are performance based.
GSE are modeled based upon aircraft LTO.
MOBILE version 6 used for vehicular emissions.
Diesel Fuel Sulfur Content: 11 (parts per million)
The emissions inventory is reported in short tons.

Hourly Operational Profiles

Name: DEFAULT

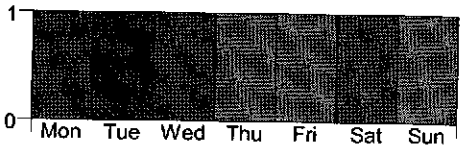
Hour	Fraction of Peak	Hour	Fraction of Peak	Hour	Fraction of Peak
1	1.0000	9	1.0000	17	1.0000
2	1.0000	10	1.0000	18	1.0000
3	1.0000	11	1.0000	19	1.0000
4	1.0000	12	1.0000	20	1.0000
5	1.0000	13	1.0000	21	1.0000
6	1.0000	14	1.0000	22	1.0000
7	1.0000	15	1.0000	23	1.0000
8	1.0000	16	1.0000	24	1.0000



Daily Operational Profiles

Name: DEFAULT

Day	Fraction of Peak	Day	Fraction of Peak
Monday	1.0000	Friday	1.0000
Tuesday	1.0000	Saturday	1.0000
Wednesday	1.0000	Sunday	1.0000
Thursday	1.0000		



Monthly Operational Profiles

Name: DEFAULT

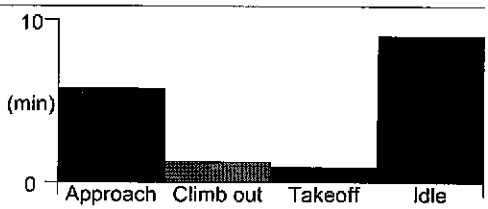
Month	Fraction of Peak	Month	Fraction of Peak
January	1.0000	July	1.0000
February	1.0000	August	1.0000
March	1.0000	September	1.0000
April	1.0000	October	1.0000
May	1.0000	November	1.0000
June	1.0000	December	1.0000

Aircraft

Aircraft Name: Canadair Reg-700
Engine Type: CF34-8C1
Identification: Comm 2020

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	43100
Approach angle (°):	3
Takeoff Time (minutes):	0.96
Climb out Time (minutes):	1.28
Approach Time (minutes):	5.92
Total Idle Time (minutes):	9.26
Taxi & Queue Time (minutes):	9.00



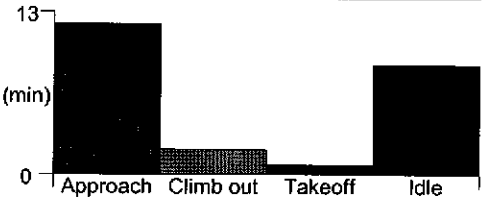
Assigned APU: APU GTCP 85 (200 HP) Op Time (mins): 26.00

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Gasoline	15.00	97	0.2500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name: Swearingen Metro 2
Engine Type: TPE331-3
Identification: Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	9.09
Taxi & Queue Time (minutes):	9.00



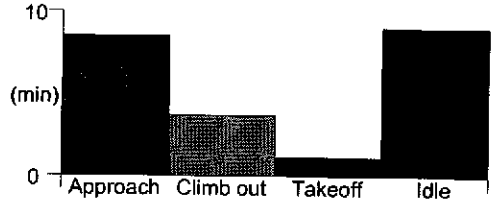
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name: Jetstream 32
Engine Type: TPE331-12
Identification: Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	9.34
Taxi & Queue Time (minutes):	9.00



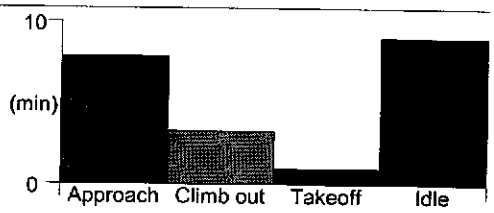
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
Cargo 2003

Annual LTOs:	520
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	9.29
Taxi & Queue Time (minutes):	9.00



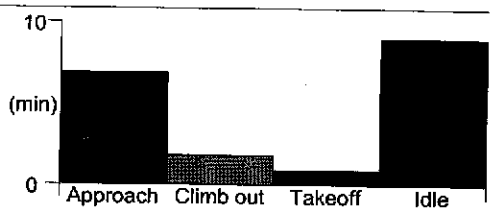
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
CITATION II
Engine Type:
JT15D-4 (B,C,D)
Identification:
Taxi 2003

Annual LTOs:	155
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	14100
Approach angle (°):	3
Takeoff Time (minutes):	0.93
Climb out Time (minutes):	1.85
Approach Time (minutes):	7.03
Total Idle Time (minutes):	9.21
Taxi & Queue Time (minutes):	9.00



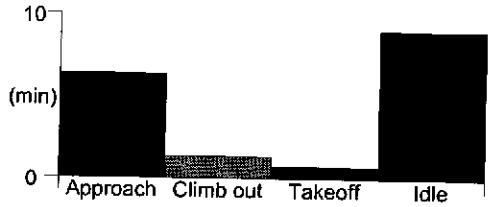
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Learjet 35/36
Engine Type:
TFE 731-2-2B
Identification:
Taxi 2003

Annual LTOs:	158
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	18300
Approach angle (°):	3
Takeoff Time (minutes):	0.74
Climb out Time (minutes):	1.34
Approach Time (minutes):	6.47
Total Idle Time (minutes):	9.23
Taxi & Queue Time (minutes):	9.00



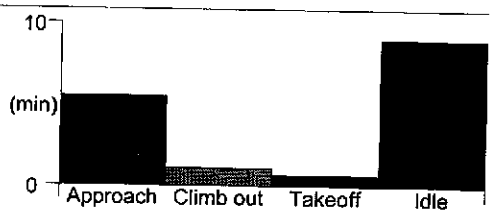
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Gulfstream IV
Engine Type:
TAY Mk611-8
Identification:
Taxi 2003

Annual LTOs:	158
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	71700
Approach angle (°):	3
Takeoff Time (minutes):	0.69
Climb out Time (minutes):	1.10
Approach Time (minutes):	5.61
Total Idle Time (minutes):	9.22
Taxi & Queue Time (minutes):	9.00

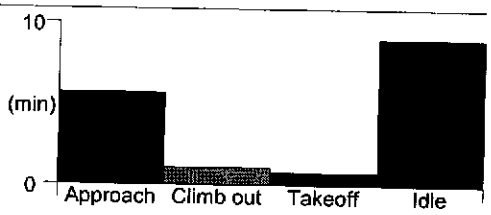


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	194	0.7500	Def. Avg.

Aircraft Name:
Gulfstream V
Engine Type:
BR700-710A1-10 GulfV
Identification:
Taxi 2003

Annual LTOs:	158
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	76925
Approach angle (°):	3
Takeoff Time (minutes):	0.79
Climb out Time (minutes):	1.08
Approach Time (minutes):	5.79
Total Idle Time (minutes):	9.21
Taxi & Queue Time (minutes):	9.00

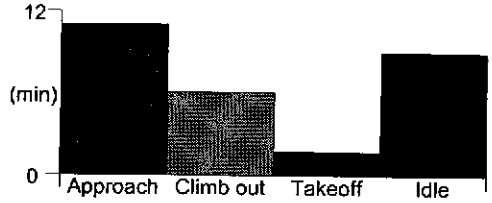


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Cessna 172 Skyhawk
Engine Type:
O-320
Identification:
GA 2003

Annual LTOs:	13758
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPP

Takeoff weight (lbs):	2450
Approach angle (°):	3
Takeoff Time (minutes):	1.75
Climb out Time (minutes):	6.16
Approach Time (minutes):	11.18
Total Idle Time (minutes):	9.15
Taxi & Queue Time (minutes):	9.00



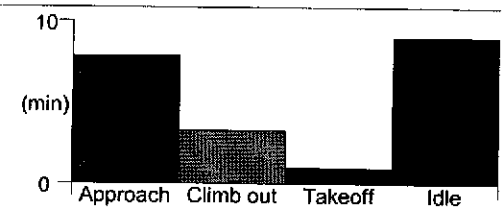
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Aztec
Engine Type:
TIO-540-J2B2
Identification:
GA 2003

Annual LTOs:	2738
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	9.29
Taxi & Queue Time (minutes):	9.00



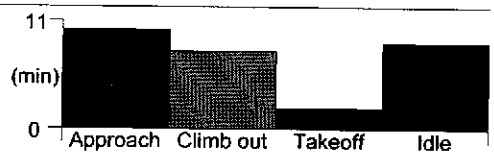
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Robinson R22
Engine Type:
O-320
Identification:
GA Helicopter 2003

Annual LTOs:	1825
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPH

Takeoff Time (minutes):	2.17
Climb out Time (minutes):	8.13
Approach Time (minutes):	10.31
Total Idle Time (minutes):	9.00
Taxi & Queue Time (minutes):	9.00



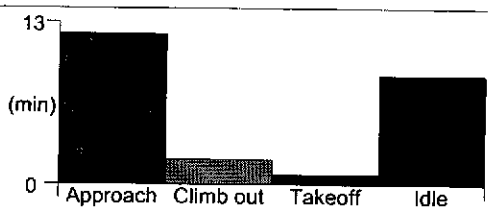
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
King Air 200
Engine Type:
PT6A-41
Identification:
Military 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	9.09
Taxi & Queue Time (minutes):	9.00



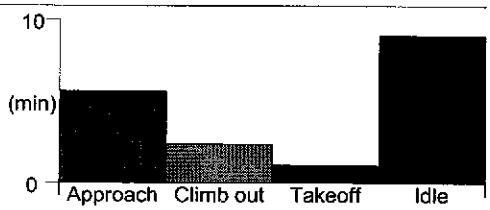
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
C-21-A
Engine Type:
TFE 731-2-2B
Identification:
Military 2003 (Lear)

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMJP

Takeoff weight (lbs):	65500
Approach angle (°):	3
Takeoff Time (minutes):	1.09
Climb out Time (minutes):	2.40
Approach Time (minutes):	5.70
Total Idle Time (minutes):	9.18
Taxi & Queue Time (minutes):	9.00



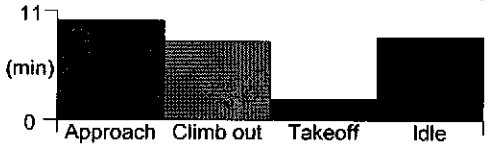
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 Super Seasprite
Engine Type:
T700-GE-401 -401C
Identification:
Military Helicopter 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	9.00
Taxi & Queue Time (minutes):	9.00



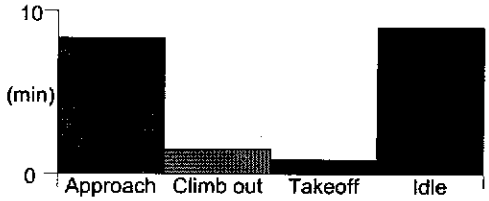
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Merlin
Engine Type:
TPE331-3
Identification:
Comm 2003 (EMB 120)

Annual LTOs:	1542
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	9850
Approach angle (°):	3
Takeoff Time (minutes):	0.90
Climb out Time (minutes):	1.52
Approach Time (minutes):	8.47
Total Idle Time (minutes):	9.13
Taxi & Queue Time (minutes):	9.00



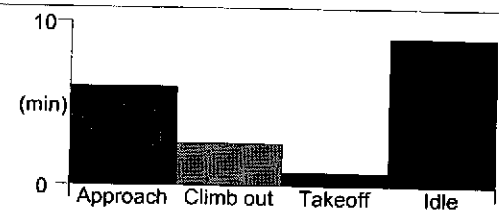
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.

Aircraft Name:
Embraer ERJ 135/140
Engine Type:
AE3007A1/3
Identification:
Comm 2010 (CRJ 100)

Annual LTOs:	1928
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	41800
Approach angle (°):	3
Takeoff Time (minutes):	0.84
Climb out Time (minutes):	2.66
Approach Time (minutes):	6.23
Total Idle Time (minutes):	9.34
Taxi & Queue Time (minutes):	9.00



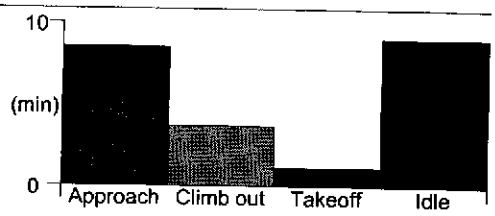
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
FH-227
Engine Type:
RDa7
Identification:
Comm 2020 (Dash 8)

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	9.34
Taxi & Queue Time (minutes):	9.00



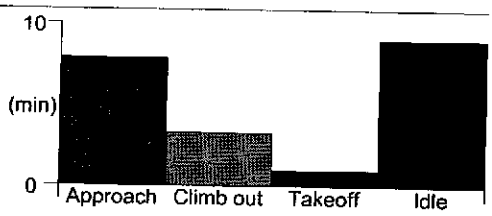
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
LTOs for TGOs

Annual LTOs:	1825
Annual TGO:	9125
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	9.29
Taxi & Queue Time (minutes):	9.00



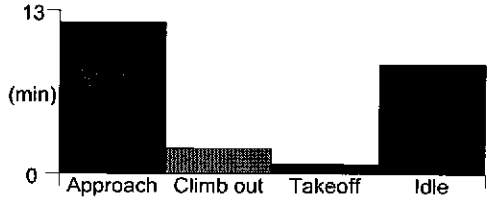
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Porter PC6/B2
Engine Type:
PT6A-42
Identification:
Cargo 2003 (Cess 208)

Annual LTOs:	260
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTC

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	9.09
Taxi & Queue Time (minutes):	9.00



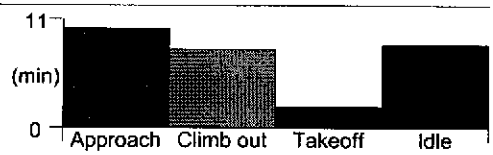
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
UH-1N Iroquois
Engine Type:
T400-CP-400
Identification:
Air Tour SA350D

Annual LTOs:	29
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	9.00
Taxi & Queue Time (minutes):	9.00



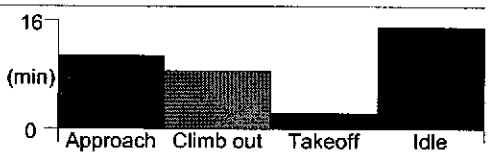
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Lift	Diesel	10.00	115	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 SEASPRITE
Engine Type:
T58-GE-8F
Identification:
Air Tour SA365N

Annual LTOs:	9
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	15.00
Taxi & Queue Time (minutes):	15.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Parking Facilities

Parking Facility Name: Pass Terminal	Vehicles per Year:	68885
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (feet):	820.21
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Cargo Hangar	Vehicles per Year:	11366
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (feet):	820.21
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: Exec Hangar	Vehicles per Year:	12600
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (feet):	820.21
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	3.80
	THC (g/veh):	0.57
	NMHC (g/veh):	0.54
	VOC (g/veh):	0.54
	NOX (g/veh):	0.38
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.01
Parking Facility Name: FBO Hangar	Vehicles per Year:	19524
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (feet):	820.21
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	3.80
THC (g/veh):	0.57
NMHC (g/veh):	0.54
VOC (g/veh):	0.54
NOX (g/veh):	0.38
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Parking Facility Name:
Large T-Hangar

Vehicles per Year:	9762
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (feet):	820.21
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	3.80
THC (g/veh):	0.57
NMHC (g/veh):	0.54
VOC (g/veh):	0.54
NOX (g/veh):	0.38
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.01

Roadways

Roadway Name:
Access Roadway

Vehicles per Year:	122138
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	35
Round Trip Distance (miles):	39.050

The user has NOT edited the following emission factors.

CO (g/veh-mi):	9.323
THC (g/veh-mi):	0.807
NMHC (g/veh-mi):	0.770
VOC (g/veh-mi):	0.763
NOX (g/veh-mi):	1.156
SOX (g/veh-mi):	0.0088
PM-10 (g/veh-mi):	0.0418
PM-2.5 (g/veh-mi):	0.0258

Stationary Sources

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
ARFF

Thousands of Cubic Meters per Year:		92.67
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Maintenance Fac

Thousands of Cubic Meters per Year:		123.60
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Cargo Hangar

Thousands of Cubic Meters per Year:		569.94
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Large Hangar

Thousands of Cubic Meters per Year:		2244.75
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Large T Hangar

Thousands of Cubic Meters per Year:		1389.23
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Terminal

Thousands of Cubic Meters per Year:		345.69
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Exec Hangar

Thousands of Cubic Meters per Year:		3110.44
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
FBO Hangar

Thousands of Cubic Meters per Year:		2066.50
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Dixie

Thousands of Cubic Meters per Year:		0.00
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Fuel Tank
Type:
Horizontal: Jet Naphtha (JP-4)
Identification:
Air Sprrty JetA

Kiloliters per Year:		1607.28
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
Air Sprrty AvGas

Kiloliters per Year:		405.93
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	0.	(meters)
Shell Length:	0.	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
Direct Aviation AvGa

Kiloliters per Year:		405.93
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Jet Naphtha (JP-4)
Identification:
Direct Aviation JetA

Kiloliters per Year:		1607.28
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Category:
Fuel Tank
Type:
Horizontal: Gasoline
Identification:
SGU Avia AvGas

Kiloliters per Year:		278.32
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
Reid Vapor Pressure:	10	(PSI)
Shell Diameter:	2.438	(meters)
Shell Length:	9.7536	(meters)

Training Fires

Training Fire Name:	Gallons Burned per Year:	8000.00
ARFF	Hourly Operational Profile:	DEFAULT
Fuel Burned:	Daily Operational Profile:	DEFAULT
Propane	Monthly Operational Profile:	DEFAULT

User-Created Aircraft

**My Aircraft

Category: LMJA
# of Engines: 1
Times in mode are the default values from the selected flight profile.

Flight Profile:	F-14A Tomcat	TF30-P-412A
Engines Emissions Data Source:	TF30-P-412A	

User-Created APUs

**My APU

Default Operating Time per LTO (minutes):	26.00
Emissions Data Source:	APU GTCP85 (200 HP)

End of Report

EDMS 4.4 Model Inputs for SGU 2020 NA Rev

Study Created:	Wednesday, March 15, 2006
Date Printed:	Wednesday, March 15, 2006

Study Pathname: P:\St. George\EIS\Consultants\VLR\REV EDMS RUNS_spdsheets_EDMS prg\SGU 2020 NA Rev\SGU 2020 NA Rev.EDM

Airport Name:	ST GEORGE MUNI
Airport ID:	SGU
State:	UT
Elevation:	2941 (feet above MSL)
Average temperature:	62.3 (°F)
Mixing Height:	4757 (feet)
Year being studied:	2020
Default Taxi Time:	8.0 (minutes)

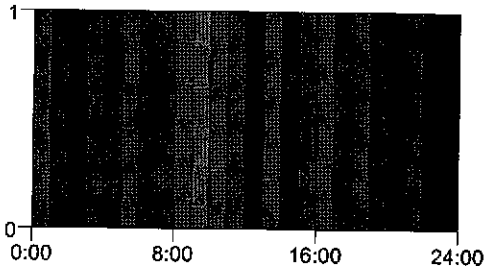
2020 No-Action Alternative - Revised on 2/2/06 to add Air Tour Helocopters

This study is only an Emissions Inventory.
System aircraft times in mode are□
performance based.
GSE are modeled based upon aircraft LTO.
MOBILE version 6 used for vehicular emissions.
Diesel Fuel Sulfur Content: 11 (parts per million)
The emissions inventory is reported in kilograms.

Hourly Operational Profiles

Name: DEFAULT

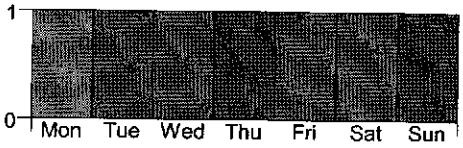
Hour	Fraction of Peak	Hour	Fraction of Peak	Hour	Fraction of Peak
1	1.0000	9	1.0000	17	1.0000
2	1.0000	10	1.0000	18	1.0000
3	1.0000	11	1.0000	19	1.0000
4	1.0000	12	1.0000	20	1.0000
5	1.0000	13	1.0000	21	1.0000
6	1.0000	14	1.0000	22	1.0000
7	1.0000	15	1.0000	23	1.0000
8	1.0000	16	1.0000	24	1.0000



Daily Operational Profiles

Name: DEFAULT

Day	Fraction of Peak	Day	Fraction of Peak
Monday	1.0000	Friday	1.0000
Tuesday	1.0000	Saturday	1.0000
Wednesday	1.0000	Sunday	1.0000
Thursday	1.0000		



Monthly Operational Profiles

Name: DEFAULT

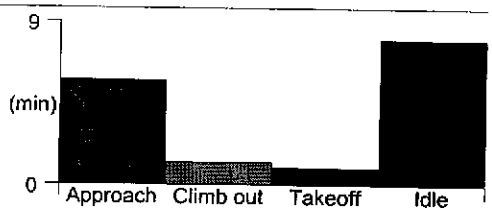
Month	Fraction of Peak	Month	Fraction of Peak
January	1.0000	July	1.0000
February	1.0000	August	1.0000
March	1.0000	September	1.0000
April	1.0000	October	1.0000
May	1.0000	November	1.0000
June	1.0000	December	1.0000

Aircraft

Aircraft Name:
Canadair Reg-700
Engine Type:
CF34-8C1
Identification:
Comm 2020

Annual LTOs:	0
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	43100
Approach angle (°):	3
Takeoff Time (minutes):	0.96
Climb out Time (minutes):	1.28
Approach Time (minutes):	5.92
Total Idle Time (minutes):	8.26
Taxi & Queue Time (minutes):	8.00



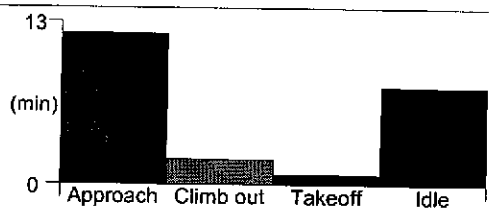
Assigned APU: APU GTCP 85 (200 HP) Op Time (mins): 26.00

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Gasoline	15.00	97	0.2500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Metro 2
Engine Type:
TPE331-3
Identification:
Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	8.09
Taxi & Queue Time (minutes):	8.00



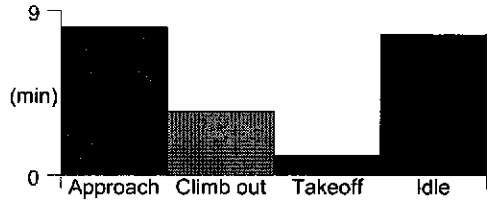
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
Jetstream 32
Engine Type:
TPE331-12
Identification:
Cargo 2003

Annual LTOs:	156
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	8.34
Taxi & Queue Time (minutes):	8.00

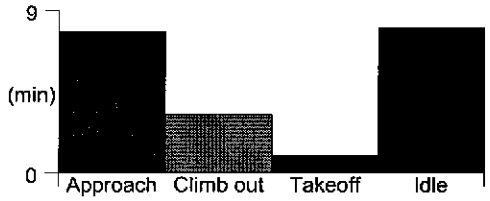


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:	Annual LTOs:	520
Navajo	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TIO-540-J2B2	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003	Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	8.29
Taxi & Queue Time (minutes):	8.00

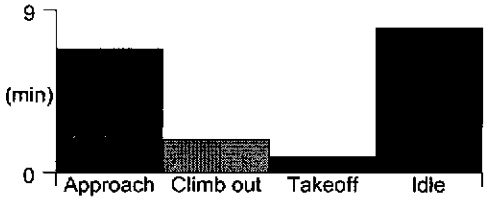


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:	Annual LTOs:	169
CITATION II	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
JT15D-4 (B,C,D)	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	SGJB

Takeoff weight (lbs):	14100
Approach angle (°):	3
Takeoff Time (minutes):	0.93
Climb out Time (minutes):	1.85
Approach Time (minutes):	7.03
Total Idle Time (minutes):	8.21
Taxi & Queue Time (minutes):	8.00

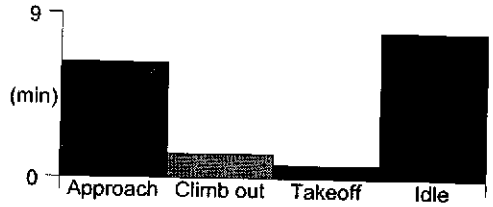


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	170
Learjet 35/36	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TFE 731-2-2B	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	SGJB

Takeoff weight (lbs):	18300
Approach angle (°):	3
Takeoff Time (minutes):	0.74
Climb out Time (minutes):	1.34
Approach Time (minutes):	6.47
Total Idle Time (minutes):	8.23
Taxi & Queue Time (minutes):	8.00



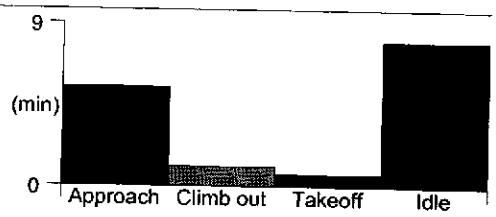
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Gulfstream IV
Engine Type:
TAY Mk611-8
Identification:
Taxi 2003

Annual LTOs:	170
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	71700
Approach angle (°):	3
Takeoff Time (minutes):	0.69
Climb out Time (minutes):	1.10
Approach Time (minutes):	5.61
Total Idle Time (minutes):	8.22
Taxi & Queue Time (minutes):	8.00

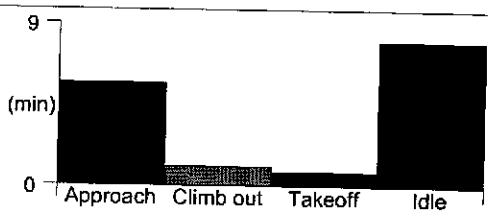


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	194	0.7500	Def. Avg.

Aircraft Name:
Gulfstream V
Engine Type:
BR700-710A1-10 GulfV
Identification:
Taxi 2003

Annual LTOs:	170
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	LCJP

Takeoff weight (lbs):	76925
Approach angle (°):	3
Takeoff Time (minutes):	0.79
Climb out Time (minutes):	1.08
Approach Time (minutes):	5.79
Total Idle Time (minutes):	8.21
Taxi & Queue Time (minutes):	8.00

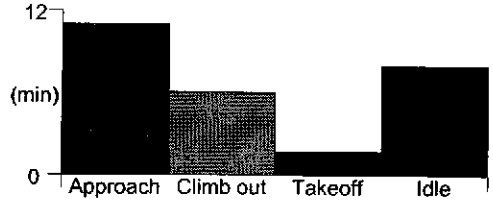


Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Cessna 172 Skyhawk
Engine Type:
O-320
Identification:
GA 2003

Annual LTOs:	15473
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPP

Takeoff weight (lbs):	2450
Approach angle (°):	3
Takeoff Time (minutes):	1.75
Climb out Time (minutes):	6.16
Approach Time (minutes):	11.18
Total Idle Time (minutes):	8.15
Taxi & Queue Time (minutes):	8.00



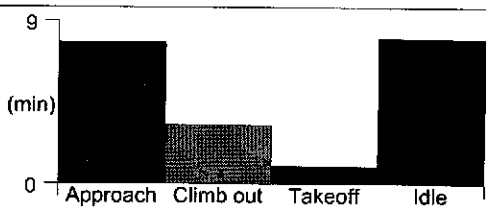
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Aztec
Engine Type:
TIO-540-J2B2
Identification:
GA 2003

Annual LTOs:	2738
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	8.29
Taxi & Queue Time (minutes):	8.00



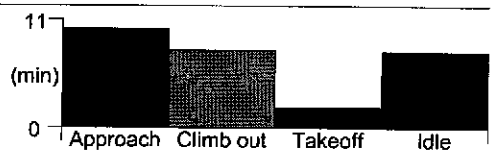
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Robinson R22
Engine Type:
O-320
Identification:
GA Helicopter 2003

Annual LTOs:	1825
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPH

Takeoff Time (minutes):	2.17
Climb out Time (minutes):	8.13
Approach Time (minutes):	10.31
Total Idle Time (minutes):	8.00
Taxi & Queue Time (minutes):	8.00



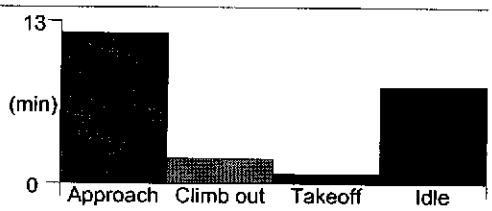
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
King Air 200
Engine Type:
PT6A-41
Identification:
Military 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	8.09
Taxi & Queue Time (minutes):	8.00



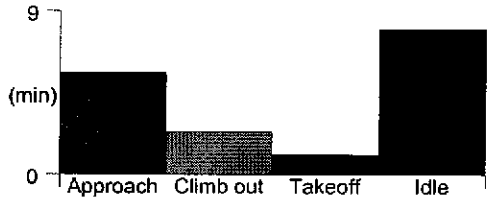
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
C-21-A
Engine Type:
TFE 731-2-2B
Identification:
Military 2003 (Lear)

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMJP

Takeoff weight (lbs):	65500
Approach angle (°):	3
Takeoff Time (minutes):	1.09
Climb out Time (minutes):	2.40
Approach Time (minutes):	5.70
Total Idle Time (minutes):	8.18
Taxi & Queue Time (minutes):	8.00



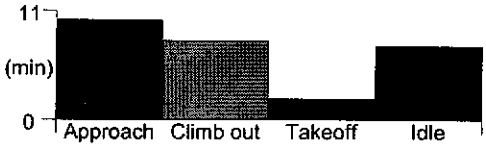
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 Super Seasprite
Engine Type:
T700-GE-401 -401C
Identification:
Military Helicopter 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	8.00
Taxi & Queue Time (minutes):	8.00



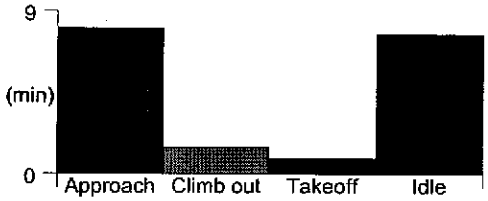
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Merlin
Engine Type:
TPE331-3
Identification:
Comm 2003 (EMB 120)

Annual LTOs:	4955
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	9850
Approach angle (°):	3
Takeoff Time (minutes):	0.90
Climb out Time (minutes):	1.52
Approach Time (minutes):	8.47
Total Idle Time (minutes):	8.13
Taxi & Queue Time (minutes):	8.00

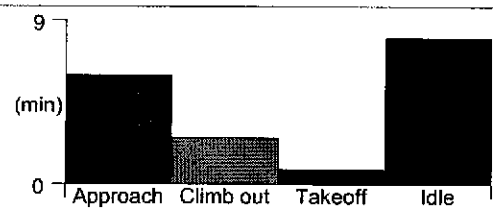


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.

Aircraft Name:	Annual LTOs:	0
Embraer ERJ 135/140	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
AE3007A1/3	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2010 (CRJ 100)	Category:	LCJP

Takeoff weight (lbs):	41800
Approach angle (°):	3
Takeoff Time (minutes):	0.84
Climb out Time (minutes):	2.66
Approach Time (minutes):	6.23
Total Idle Time (minutes):	8.34
Taxi & Queue Time (minutes):	8.00

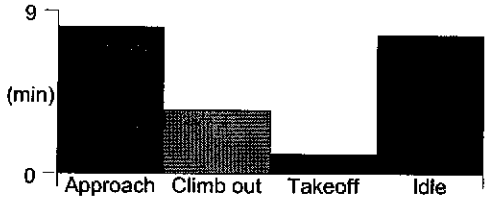


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	0
FH-227	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
RDa7	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2020 (Dash 8)	Category:	LCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	8.34
Taxi & Queue Time (minutes):	8.00

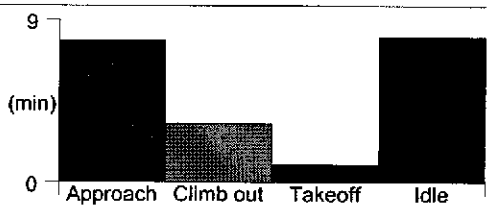


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	1825
Navajo	Annual TGO:	9125
Engine Type:	Hourly Operational Profile:	DEFAULT
TIO-540-J2B2	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
LTOs for TGOs	Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	8.29
Taxi & Queue Time (minutes):	8.00

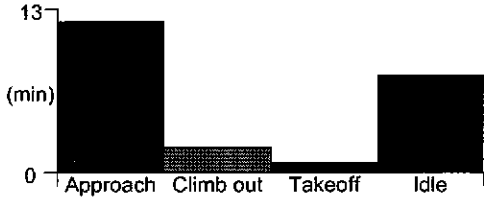


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	260
Porter PC6/B2	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
PT6A-42	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003 (Cess 208)	Category:	SMTC

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	8.09
Taxi & Queue Time (minutes):	8.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:	Annual LTOs:	31
UH-1N Iroquois	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
T400-CP-400	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Air Tour SA350D	Category:	SMTH

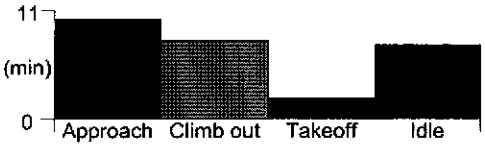
Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	8.00
Taxi & Queue Time (minutes):	8.00

No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Lift	Diesel	10.00	115	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:	Annual LTOs:	20
H-2 SEASPRITE	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
T58-GE-8F	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Air Tour SA365N	Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	8.00
Taxi & Queue Time (minutes):	8.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Parking Facilities

Parking Facility Name: Pass Terminal	Vehicles per Year:	72395
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: Cargo Hangar	Vehicles per Year:	11366
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: Exec Hangar	Vehicles per Year:	13600
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: FBO Hangar	Vehicles per Year:	21352
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	2.76
THC (g/veh):	0.32
NMHC (g/veh):	0.30
VOC (g/veh):	0.30
NOX (g/veh):	0.15
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.00

Parking Facility Name:
Large T-Hangar

Vehicles per Year:	10676
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	2.76
THC (g/veh):	0.32
NMHC (g/veh):	0.30
VOC (g/veh):	0.30
NOX (g/veh):	0.15
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.00

Roadways

Roadway Name:
Access Roadway

Vehicles per Year:	129389
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	35
Round Trip Distance (miles):	2.580

The user has NOT edited the following emission factors.

CO (g/veh-mi):	6.804
THC (g/veh-mi):	0.459
NMHC (g/veh-mi):	0.436
VOC (g/veh-mi):	0.431
NOX (g/veh-mi):	0.460
SOX (g/veh-mi):	0.0090
PM-10 (g/veh-mi):	0.0299
PM-2.5 (g/veh-mi):	0.0149

Stationary Sources

Category:	Thousands of Cubic Meters per Year:		332.18
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
Large T Hangar	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Thousands of Cubic Meters per Year:		150.70
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
Terminal	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Thousands of Cubic Meters per Year:		1197.48
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
Exec Hangar	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Thousands of Cubic Meters per Year:		284.39
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
FBO Hangar	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Thousands of Cubic Meters per Year:		76.26
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
Dixie	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Kiloliters per Year:		2123.75
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Jet Naphtha (JP-4)	Monthly Operational Profile:		DEFAULT
Identification:			
Air Sprrty JetA	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		442.89
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
Air Sprrty AvGas	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		442.89
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
Direct Aviation AvGa	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		2123.75
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Jet Naphtha (JP-4)	Monthly Operational Profile:		DEFAULT
Identification:			
Direct Aviation JetA	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		303.66
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
SGU Avia AvGas	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Training Fires

Training Fire Name:	Gallons Burned per Year:	0.00
ARFF	Hourly Operational Profile:	DEFAULT
Fuel Burned:	Daily Operational Profile:	DEFAULT
Propane	Monthly Operational Profile:	DEFAULT

User-Created Aircraft

**My Aircraft

Category: LMJA
# of Engines: 1
Times in mode are the default values from the selected flight profile.

Flight Profile:	F-14A Tomcat	TF30-P-412A
Engines Emissions Data Source:	TF30-P-412A	

User-Created APUs

**My APU

Default Operating Time per LTO (minutes):	26.00
Emissions Data Source:	APU GTCP85 (200 HP)

End of Report

EDMS 4.4 Model Inputs for SGU 2020 PA Rev

Study Created:	Wednesday, March 15, 2006
Date Printed:	Wednesday, March 15, 2006

Study Pathname: P:\St. George\EIS\Consultants\VLR\REV EDMS RUNS_spdsheets_EDMS prg\SGU 2020 PA Rev\SGU 2020 PA Rev.EDM

Airport Name:	ST GEORGE MUNI
Airport ID:	SGU
State:	UT
Elevation:	2941 (feet above MSL)
Average temperature:	62.3 (°F)
Mixing Height:	4757 (feet)
Year being studied:	2020
Default Taxi Time:	11.0 (minutes)

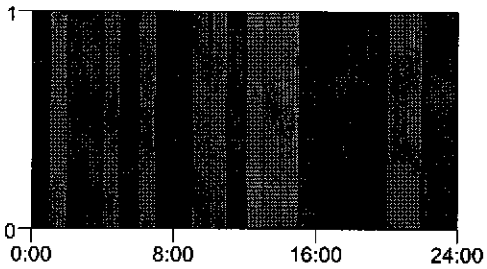
2020 Proposed Action Alternative - Revised to add Air Tour Helicopters

This study is only an Emissions Inventory.
System aircraft times in mode are
performance based.
GSE are modeled based upon aircraft LTO.
MOBILE version 6 used for vehicular emissions.
Diesel Fuel Sulfur Content: 11 (parts per million)
The emissions inventory is reported in kilograms.

Hourly Operational Profiles

Name: DEFAULT

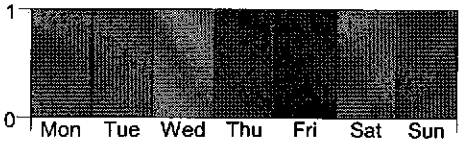
Hour	Fraction of Peak	Hour	Fraction of Peak	Hour	Fraction of Peak
1	1.0000	9	1.0000	17	1.0000
2	1.0000	10	1.0000	18	1.0000
3	1.0000	11	1.0000	19	1.0000
4	1.0000	12	1.0000	20	1.0000
5	1.0000	13	1.0000	21	1.0000
6	1.0000	14	1.0000	22	1.0000
7	1.0000	15	1.0000	23	1.0000
8	1.0000	16	1.0000	24	1.0000



Daily Operational Profiles

Name: DEFAULT

Day	Fraction of Peak	Day	Fraction of Peak
Monday	1.0000	Friday	1.0000
Tuesday	1.0000	Saturday	1.0000
Wednesday	1.0000	Sunday	1.0000
Thursday	1.0000		



Monthly Operational Profiles

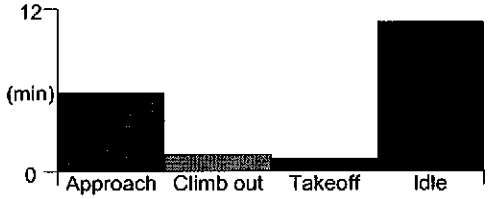
Name: DEFAULT

Month	Fraction of Peak	Month	Fraction of Peak
January	1.0000	July	1.0000
February	1.0000	August	1.0000
March	1.0000	September	1.0000
April	1.0000	October	1.0000
May	1.0000	November	1.0000
June	1.0000	December	1.0000

Aircraft

Aircraft Name:	Annual LTOs:	613
Canadair Reg-700	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
CF34-8C1	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2020	Category:	LCJP

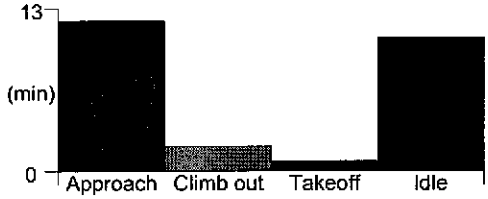
Takeoff weight (lbs):	43100
Approach angle (°):	3
Takeoff Time (minutes):	0.96
Climb out Time (minutes):	1.28
Approach Time (minutes):	5.92
Total Idle Time (minutes):	11.26
Taxi & Queue Time (minutes):	11.00



Assigned APU:	APU GTCP 85 (200 HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Gasoline	15.00	97	0.2500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	156
Swearingen Metro 2	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TPE331-3	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003	Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	11.09
Taxi & Queue Time (minutes):	11.00

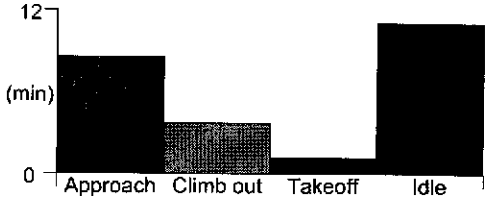


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:	Annual LTOs:	156
Jetstream 32	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TPE331-12	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Cargo 2003	Category:	SCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	11.34
Taxi & Queue Time (minutes):	11.00



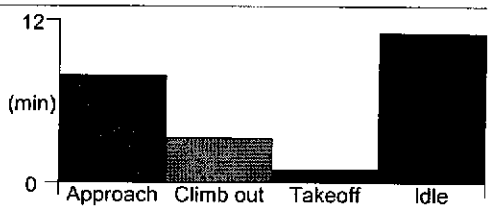
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
Navajo
Engine Type:
TIO-540-J2B2
Identification:
Cargo 2003

Annual LTOs:	520
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	11.29
Taxi & Queue Time (minutes):	11.00



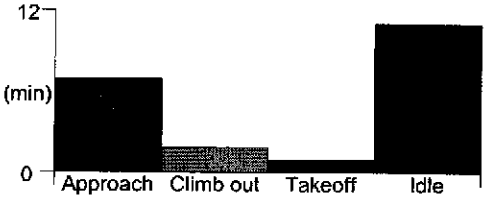
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.

Aircraft Name:
CITATION II
Engine Type:
JT15D-4 (B,C,D)
Identification:
Taxi 2003

Annual LTOs:	169
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	14100
Approach angle (°):	3
Takeoff Time (minutes):	0.93
Climb out Time (minutes):	1.85
Approach Time (minutes):	7.03
Total Idle Time (minutes):	11.21
Taxi & Queue Time (minutes):	11.00



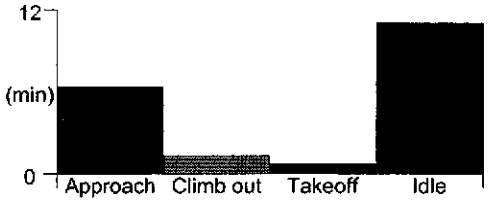
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:
Learjet 35/36
Engine Type:
TFE 731-2-2B
Identification:
Taxi 2003

Annual LTOs:	170
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SGJB

Takeoff weight (lbs):	18300
Approach angle (°):	3
Takeoff Time (minutes):	0.74
Climb out Time (minutes):	1.34
Approach Time (minutes):	6.47
Total Idle Time (minutes):	11.23
Taxi & Queue Time (minutes):	11.00

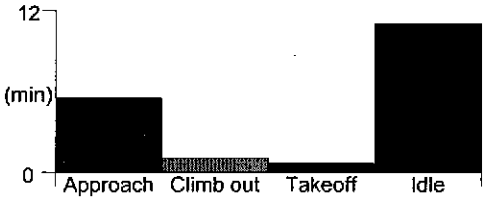


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Gasoline	40.00	107	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	170
Gulfstream IV	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TAY Mk611-8	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	LCJP

Takeoff weight (lbs):	71700
Approach angle (°):	3
Takeoff Time (minutes):	0.69
Climb out Time (minutes):	1.10
Approach Time (minutes):	5.61
Total Idle Time (minutes):	11.22
Taxi & Queue Time (minutes):	11.00



Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	194	0.7500	Def. Avg.

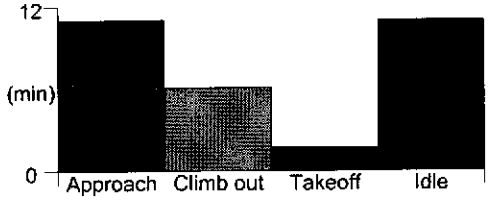
Aircraft Name:	Annual LTOs:	170
Gulfstream V	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
BR700-710A1-10 GulfV	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Taxi 2003	Category:	LCJP

Takeoff weight (lbs):	76925
Approach angle (°):	3
Takeoff Time (minutes):	0.79
Climb out Time (minutes):	1.08
Approach Time (minutes):	5.79
Total Idle Time (minutes):	11.21
Taxi & Queue Time (minutes):	11.00

Assigned APU:	APU GTCP 36 (80HP)		Op Time (mins):		26.00
Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	15473
Cessna 172 Skyhawk	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
O-320	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
GA 2003	Category:	SGPP

Takeoff weight (lbs):	2450
Approach angle (°):	3
Takeoff Time (minutes):	1.75
Climb out Time (minutes):	6.16
Approach Time (minutes):	11.18
Total Idle Time (minutes):	11.15
Taxi & Queue Time (minutes):	11.00

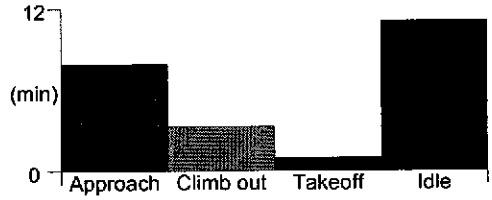


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	2738
Aztec	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
TIO-540-J2B2	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
GA 2003	Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	11.29
Taxi & Queue Time (minutes):	11.00

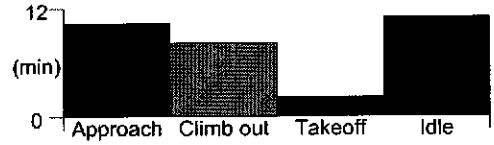


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	1825
Robinson R22	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
O-320	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
GA Helicopter 2003	Category:	SGPH

Takeoff Time (minutes):	2.17
Climb out Time (minutes):	8.13
Approach Time (minutes):	10.31
Total Idle Time (minutes):	11.00
Taxi & Queue Time (minutes):	11.00

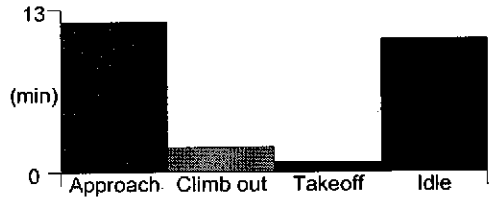


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:	Annual LTOs:	35
King Air 200	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
PT6A-41	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Military 2003	Category:	SCTP

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	11.09
Taxi & Queue Time (minutes):	11.00



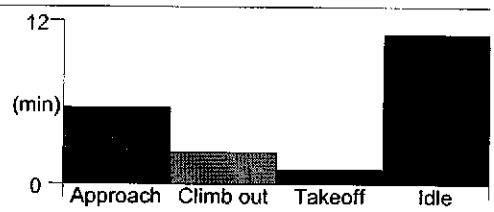
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
C-21-A
Engine Type:
TFE 731-2-2B
Identification:
Military 2003 (Lear)

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMJP

Takeoff weight (lbs):	65500
Approach angle (°):	3
Takeoff Time (minutes):	1.09
Climb out Time (minutes):	2.40
Approach Time (minutes):	5.70
Total Idle Time (minutes):	11.18
Taxi & Queue Time (minutes):	11.00



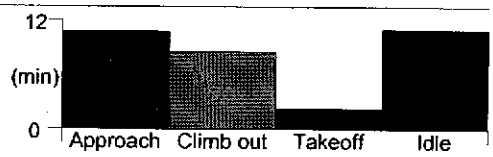
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 Super Seasprite
Engine Type:
T700-GE-401 -401C
Identification:
Military Helicopter 2003

Annual LTOs:	35
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	11.00
Taxi & Queue Time (minutes):	11.00



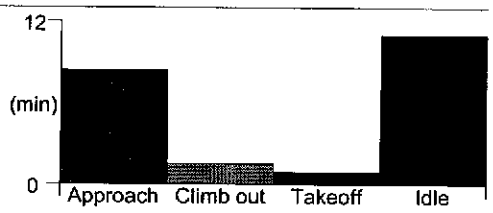
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Swearingen Merlin
Engine Type:
TPE331-3
Identification:
Comm 2003 (EMB 120)

Annual LTOs:	614
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SCTP

Takeoff weight (lbs):	9850
Approach angle (°):	3
Takeoff Time (minutes):	0.90
Climb out Time (minutes):	1.52
Approach Time (minutes):	8.47
Total Idle Time (minutes):	11.13
Taxi & Queue Time (minutes):	11.00

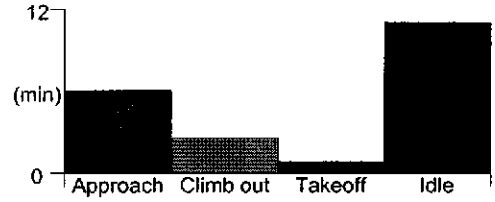


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.

Aircraft Name:	Annual LTOs:	1840
Embraer ERJ 135/140	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
AE3007A1/3	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2010 (CRJ 100)	Category:	LCJP

Takeoff weight (lbs):	41800
Approach angle (°):	3
Takeoff Time (minutes):	0.84
Climb out Time (minutes):	2.66
Approach Time (minutes):	6.23
Total Idle Time (minutes):	11.34
Taxi & Queue Time (minutes):	11.00

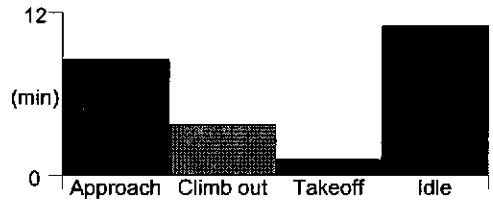


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	613
FH-227	Annual TGO:	0
Engine Type:	Hourly Operational Profile:	DEFAULT
RDa7	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
Comm 2020 (Dash 8)	Category:	LCTP

Takeoff weight (lbs):	46500
Approach angle (°):	3
Takeoff Time (minutes):	1.18
Climb out Time (minutes):	3.81
Approach Time (minutes):	8.80
Total Idle Time (minutes):	11.34
Taxi & Queue Time (minutes):	11.00

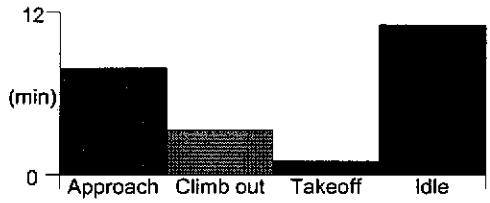


No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Service Truck	Diesel	15.00	235	0.2000	Def. Avg.
Lavatory Truck	Diesel	15.00	56	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	20.00	175	0.2500	Def. Avg.
Catering Truck	Diesel	10.00	71	0.5300	Def. Avg.
Baggage Tractor	Gasoline	35.00	107	0.5500	Def. Avg.
Aircraft Tractor	Diesel	5.00	86	0.8000	Def. Avg.

Aircraft Name:	Annual LTOs:	1825
Navajo	Annual TGO:	9125
Engine Type:	Hourly Operational Profile:	DEFAULT
TIO-540-J2B2	Daily Operational Profile:	DEFAULT
Identification:	Monthly Operational Profile:	DEFAULT
LTOs for TGOs	Category:	SGPB

Takeoff weight (lbs):	5500
Approach angle (°):	3
Takeoff Time (minutes):	0.98
Climb out Time (minutes):	3.34
Approach Time (minutes):	8.07
Total Idle Time (minutes):	11.29
Taxi & Queue Time (minutes):	11.00



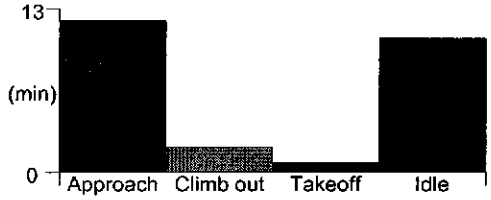
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.

Aircraft Name:
Porter PC6/B2
Engine Type:
PT6A-42
Identification:
Cargo 2003 (Cess 208)

Annual LTOs:	260
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTC

Takeoff weight (lbs):	12500
Approach angle (°):	3
Takeoff Time (minutes):	0.82
Climb out Time (minutes):	2.06
Approach Time (minutes):	12.52
Total Idle Time (minutes):	11.09
Taxi & Queue Time (minutes):	11.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Belt Loader	Gasoline	30.00	107	0.5000	Def. Avg.
Ground Power Unit	Diesel	40.00	71	0.7500	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
UH-1N Iroquois
Engine Type:
T400-CP-400
Identification:
Air Tour SA350D

Annual LTOs:	31
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	11.00
Taxi & Queue Time (minutes):	11.00

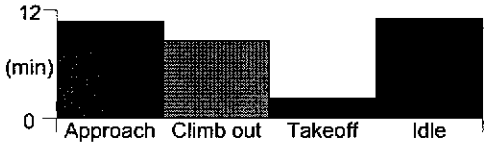
No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Lift	Diesel	10.00	115	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Aircraft Name:
H-2 SEASPRITE
Engine Type:
T58-GE-8F
Identification:
Air Tour SA365N

Annual LTOs:	20
Annual TGO:	0
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT
Category:	SMTH

Takeoff Time (minutes):	2.27
Climb out Time (minutes):	8.51
Approach Time (minutes):	10.78
Total Idle Time (minutes):	11.00
Taxi & Queue Time (minutes):	11.00



No APU assigned.

Assigned GSE/AGE:	Fuel:	Op Time (mins):	Horsepower:	Load Factor:	Manufactured Year:
Other	Diesel	0.00	140	0.5000	Def. Avg.
Fuel Truck	Diesel	10.00	175	0.2500	Def. Avg.

Parking Facilities

Parking Facility Name: Pass Terminal	Vehicles per Year:	103284
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: Cargo Hangar	Vehicles per Year:	11366
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: Exec Hangar	Vehicles per Year:	13600
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT
	Vehicle Type:	Default Fleet Mix.
	Average Speed (MPH):	10
	Average Distance Traveled (meters):	250.00
	Average Idle Time (mins):	1.50
	The user has NOT edited the following emission factors.	
	CO (g/veh):	2.76
	THC (g/veh):	0.32
	NMHC (g/veh):	0.30
	VOC (g/veh):	0.30
	NOX (g/veh):	0.15
	SOX (g/veh):	0.00
	PM-10 (g/veh):	0.01
	PM-2.5 (g/veh):	0.00
Parking Facility Name: FBO Hangar	Vehicles per Year:	21352
	Hourly Operational Profile:	DEFAULT
	Daily Operational Profile:	DEFAULT
	Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	2.76
THC (g/veh):	0.32
NMHC (g/veh):	0.30
VOC (g/veh):	0.30
NOX (g/veh):	0.15
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.00

Parking Facility Name:
Large T-Hangar

Vehicles per Year:	10676
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	10
Average Distance Traveled (meters):	250.00
Average Idle Time (mins):	1.50

The user has NOT edited the following emission factors.

CO (g/veh):	2.76
THC (g/veh):	0.32
NMHC (g/veh):	0.30
VOC (g/veh):	0.30
NOX (g/veh):	0.15
SOX (g/veh):	0.00
PM-10 (g/veh):	0.01
PM-2.5 (g/veh):	0.00

Roadways

Roadway Name:
Access Roadway

Vehicles per Year:	160278
Hourly Operational Profile:	DEFAULT
Daily Operational Profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Vehicle Type:	Default Fleet Mix.
Average Speed (MPH):	35
Round Trip Distance (miles):	39.050

The user has NOT edited the following emission factors.

CO (g/veh-mi):	6.804
THC (g/veh-mi):	0.459
NMHC (g/veh-mi):	0.436
VOC (g/veh-mi):	0.431
NOX (g/veh-mi):	0.460
SOX (g/veh-mi):	0.0090
PM-10 (g/veh-mi):	0.0299
PM-2.5 (g/veh-mi):	0.0149

Stationary Sources

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
ARFF Bldg

Thousands of Cubic Meters per Year:		92.67
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Terminal

Thousands of Cubic Meters per Year:		345.69
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Exec Hangar

Thousands of Cubic Meters per Year:		3110.44
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
FBO Hangar

Thousands of Cubic Meters per Year:		2066.50
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Dixie

Thousands of Cubic Meters per Year:		0.00
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Large T Hangar

Thousands of Cubic Meters per Year:		1389.23
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Large Hangar

Thousands of Cubic Meters per Year:		2244.75
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:
Boiler/Space Heater
Type:
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled
Identification:
Cargo Hangar

Thousands of Cubic Meters per Year:		569.94
Hourly Operational Profile:		DEFAULT
Daily Operational Profile:		DEFAULT
Monthly Operational Profile:		DEFAULT
PM-10 Pollution Control Factor:	0.	(%)
SO2 Pollution Control Factor:	0.	(%)
NOx Pollution Control Factor:	0.	(%)
TOC Pollution Control Factor:	0.	(%)
CO Pollution Control Factor:	0.	(%)
PM-10 EI:	0.12	(Kg/1000 m^3)
SO2 EI:	0.01	(Kg/1000 m^3)
NOx EI:	1.6	(Kg/1000 m^3)
THC EI:	0.18	(Kg/1000 m^3)
CO EI:	1.3	(Kg/1000 m^3)

Category:	Thousands of Cubic Meters per Year:		123.60
Boiler/Space Heater	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Natural Gas: Wall Fired Boiler, <100 Million BTU/hr, Uncontrolled	Monthly Operational Profile:		DEFAULT
Identification:			
Maintenance Fac	PM-10 Pollution Control Factor:	0.	(%)
	SO2 Pollution Control Factor:	0.	(%)
	NOx Pollution Control Factor:	0.	(%)
	TOC Pollution Control Factor:	0.	(%)
	CO Pollution Control Factor:	0.	(%)
	PM-10 EI:	0.12	(Kg/1000 m^3)
	SO2 EI:	0.01	(Kg/1000 m^3)
	NOx EI:	1.6	(Kg/1000 m^3)
	THC EI:	0.18	(Kg/1000 m^3)
	CO EI:	1.3	(Kg/1000 m^3)

Category:	Kiloliters per Year:		442.89
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
Direct Aviation AvGa	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		1694.76
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Jet Naphtha (JP-4)	Monthly Operational Profile:		DEFAULT
Identification:			
Direct Aviation JetA	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		303.66
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
SGU Avia AvGas	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		442.89
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Gasoline	Monthly Operational Profile:		DEFAULT
Identification:			
Air Sprrty AvGas	Reid Vapor Pressure:	10	(PSI)
	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Category:	Kiloliters per Year:		1694.76
Fuel Tank	Hourly Operational Profile:		DEFAULT
Type:	Daily Operational Profile:		DEFAULT
Horizontal: Jet Naphtha (JP-4)	Monthly Operational Profile:		DEFAULT
Identification:			
Air Sprrty JetA	Shell Diameter:	2.438	(meters)
	Shell Length:	9.7536	(meters)

Training Fires

Training Fire Name:	Gallons Burned per Year:	8000.00
ARFF	Hourly Operational Profile:	DEFAULT
Fuel Burned:	Daily Operational Profile:	DEFAULT
Propane	Monthly Operational Profile:	DEFAULT

User-Created Aircraft

**My Aircraft

Category: LMJA
# of Engines: 1
Times in mode are the default values from the selected flight profile.

Flight Profile:	F-14A Tomcat	TF30-P-412A
Engines Emissions Data Source:	TF30-P-412A	

User-Created APUs

**My APU

Default Operating Time per LTO (minutes):	26.00
Emissions Data Source:	APU GTCP85 (200 HP)

End of Report