

**APPENDIX E**  
**AIR QUALITY CALCULATIONS**



## EDMS 5.1 Model Inputs for Pima\_County Study

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Study Created: Wed Jan 08 15:27:19 2014  
 Report Date: Wed Jan 15 07:59:37 2014  
 Study Pathname: C:\EDMS 5.1\Angel\_Thunder\Pima\_County\Pima\_County.edm

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### Study Setup

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Unit System: English  
 Dispersion Modeling: Dispersion is not enabled for this study  
 Speciated Hydrocarbon Modeling: Speciated Hydrocarbon Modeling is not enabled for this study  
 Analysis Years: 2014

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### Scenarios

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Scenario Name: Baseline	Description: Aircraft Times in Mode Basis: Taxi Time Modeling: FOA3 Sulfur-to-Sulfate Conversion Rate:	Add a description. Performance-Based User-specified Taxi Times 2.400000 %
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### Airports

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Airport Name: IATA Code: ICAO Code: FAA Code: Country: State: City: Airport Description: Latitude: Longitude: Northing: Easting: UTM Zone: Elevation: PM Modeling Methodology:	Pima County DMA KDMA US Arizona Pima county 32.166° -110.883° 3558893.53 511017.69 12 2704.00 feet FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%)
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### Scenario-Airport: Baseline, Pima County

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#### Weather

Baseline, Pima County

Mixing Height:	3000.00 feet
Temperature:	68.00 °F
Daily High Temperature:	78.35 °F
Daily Low Temperature:	57.65 °F
Pressure:	29.92 inches of Hg
Sea Level Pressure:	29.89 inches of Hg
Relative Humidity:	33.22
Wind Speed:	6.81 knots
Wind Direction:	0.00 °
Ceiling:	99999.99 feet
Visibility:	50.00 miles
The user has used annual averages.	
Base Elevation:	2704.00 feet
Date Range:	Thursday, January 01, 2004 to Friday, December 31, 2004
Source Data File Location:	
Upper Air Data File Location:	

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#### Quarter-Hourly Operational Profiles

Baseline, Pima County

Name: DEFAULT

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

Daily Operational Profiles

Baseline, Pima County

Name: DEFAULT

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

Monthly Operational Profiles

Baseline, Pima County

Name: DEFAULT

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

Aircraft

Baseline, Pima County

Default Taxi Out Time: 19.000000 min

Default Taxi In Time: 7.000000 min  
Year: Uses Schedule? Schedule Filename:  
 2014 No (None)

Aircraft Name: Lockheed C-130 Hercules  
 Engine Type: T56-A-15  
 Identification: #1  
 Category: LMTC  
 Take Off weight: 59874.00 Kgs  
 Approach Weight: 55111.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

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Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

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Year: 2014  
 Annual Departures: 0  
 Annual Arrivals: 0  
 Annual TGOs: 2160  
 Taxi Out Time: Determined by Sequencing model  
 Taxi In Time: Determined by Sequencing model

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

Aircraft Name: Sikorsky SH-60 Sea Hawk  
 Engine Type: T700-GE-401 -401C  
 Identification: #1  
 Category: SMTH  
 Take Off weight: 9185.00 Kgs  
 Approach Weight: 9185.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

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Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
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Year: 2014  
 Annual Departures: 13500  
 Annual Arrivals: 13500  
 Annual TGOs: 0  
 Taxi Out Time: Determined by Sequencing model  
 Taxi In Time: Determined by Sequencing model

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

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

GSE Population	Baseline, Pima County
None.	
Parking Facilities	Baseline, Pima County
None.	
Roadways	Baseline, Pima County
None.	
Stationary Sources	Baseline, Pima County
None.	
Training Fires	Baseline, Pima County
None.	
Gates	Baseline, Pima County
None.	
Taxiways	Baseline, Pima County
None.	
Runways	Baseline, Pima County
None.	
Taxipaths	Baseline, Pima County
None.	
Configurations	Baseline, Pima County
None.	
Buildings	Baseline, Pima County
None.	
Discrete Cartesian Receptors	Baseline, Pima County
None.	
Discrete Polar Receptors	Baseline, Pima County
None.	
Cartesian Receptor Networks	Baseline, Pima County
None.	
Polar Receptor Networks	Baseline, Pima County
None.	
User-Created Aircraft	Baseline, Pima County
None.	
User-Created GSE	Baseline, Pima County
None.	
User-Created APU	Baseline, Pima County
None.	

# Aircraft Emissions by Mode

## (Short Tons per Year)

### Baseline - Pima County 2014

Type	Engine	ID	Euro. ...	Mode	CO2	CO	THC	NM...	VOC	TOG	NOX	SOX	PM...	Fuel Consu...
Lockheed C-130 Herc...	T56-A-15	#1	TP	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi Out	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	Takeoff	293.683	0.107	0.005	0.006	0.006	0.006	1.050	0.120	N/A	93.085
Lockheed C-130 Herc...	T56-A-15	#1	TP	Climb Out	3,801.854	3.830	0.676	0.782	0.777	0.782	8.560	1.557	N/A	1,205.025
Lockheed C-130 Herc...	T56-A-15	#1	TP	Approach	177.053	1.002	0.448	0.518	0.516	0.518	0.247	0.073	N/A	56.118
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi In	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Taxi Out	4,945.959	19.247	1.038	1.200	1.194	1.200	7.930	2.025	N/A	1,567.657
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Takeoff	233.226	0.888	0.049	0.057	0.056	0.057	0.390	0.096	N/A	73.923
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Climb Out	16.213	0.062	0.003	0.004	0.004	0.004	0.027	0.007	N/A	5.139
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Approach	352.735	1.383	0.075	0.086	0.086	0.086	0.566	0.144	N/A	111.802
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Taxi In	5,450.404	21.396	1.154	1.334	1.327	1.334	8.743	2.232	N/A	1,727.545

# Aircraft Emissions Summary

(Short Tons per Year)  
Baseline - Pima County 2014

Type	Engine	ID	Euro. ...	CO2	CO	THC	NM...	VOC	TOG	NOx	SOx	PM...	PM...	Fuel Consu...
Lockheed C-130 Herc...	T56-A-15	#1	TP	Total	4,940	1,129	1,306	1,299	1,306	9,856	1,750	N/A	N/A	1,354,228
Lockheed C-130 Herc...	T56-A-15	#1	TP	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401-4...	#1	H2	Total	42,976	2,318	2,680	2,667	2,680	17,656	4,504	N/A	N/A	3,486,066
Sikorsky SH-60 Sea H...	T700-GE-401-4...	#1	H2	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401-4...	#1	H2	GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Emissions Inventory Summary

(Short Tons per Year)  
Baseline - Pima County 2014

Category	CO2	CO	THC	NMHC	VOC	TOG	NOX	SOX	PM-10	PM-2.5
Aircraft	15,271.128	47.915	3,448	3,986	3,965	3,986	27.512	6,254	N/A	N/A
GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stationary Sources	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	15,271.128	47.915	3,448	3,986	3,965	3,986	27.512	6,254	N/A	N/A



## EDMS 5.1 Model Inputs for Cochise\_County Study

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Study Created: Wed Jan 15 08:45:36 2014  
 Report Date: Wed Jan 15 09:04:35 2014  
 Study Pathname: C:\EDMS 5.1\Cochise\_County\Cochise\_County.edm

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### Study Setup

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Unit System: Metric  
 Dispersion Modeling: Dispersion is not enabled for this study  
 Speciated Hydrocarbon Modeling: Speciated Hydrocarbon Modeling is not enabled for this study  
 Analysis Years: 2014

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### Scenarios

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Scenario Name: Baseline	Description: Aircraft Times in Mode Basis: Taxi Time Modeling: FOA3 Sulfur-to-Sulfate Conversion Rate:	Add a description. Performance-Based User-specified Taxi Times 2.400000 %
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### Airports

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Airport Name: IATA Code: ICAO Code: FAA Code: Country: State: City: Airport Description: Latitude: Longitude: Northing: Easting: UTM Zone: Elevation: PM Modeling Methodology:	Cochise County DMA KDMA US Arizona Tucson Davis Monthan Afb 32.166° -110.883° 3558893.53 511017.69 12 2704.00 feet FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%)
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### Scenario-Airport: Baseline, Cochise County

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#### Weather

Baseline, Cochise County

Mixing Height:	914.40 meters
Temperature:	20.00 °C
Daily High Temperature:	25.75 °C
Daily Low Temperature:	14.25 °C
Pressure:	101320.73 Pa
Sea Level Pressure:	101219.14 Pa
Relative Humidity:	33.22
Wind Speed:	12.61 kph
Wind Direction:	0.00 °
Ceiling:	30480.00 m
Visibility:	80.47 km
The user has used annual averages.	
Base Elevation:	824.18 meters
Date Range:	Thursday, January 01, 2004 to Friday, December 31, 2004
Source Data File Location:	
Upper Air Data File Location:	

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#### Quarter-Hourly Operational Profiles

Baseline, Cochise County

Name: DEFAULT

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

Daily Operational Profiles

Baseline, Cochise County

Name: DEFAULT

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

Monthly Operational Profiles

Baseline, Cochise County

Name: DEFAULT

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

Aircraft

Baseline, Cochise County

Default Taxi Out Time: 19.000000 min

Default Taxi In Time: 7.000000 min  
Year: Uses Schedule? Schedule Filename:  
 2014 No (None)

Aircraft Name: Lockheed C-130 Hercules  
 Engine Type: T56-A-15  
 Identification: #1  
 Category: LMTC  
 Take Off weight: 59874.00 Kgs  
 Approach Weight: 55111.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

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Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

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Year: 2014  
 Annual Departures: 0  
 Annual Arrivals: 0  
 Annual TGOs: 1680  
 Taxi Out Time: Determined by Sequencing model  
 Taxi In Time: Determined by Sequencing model

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

Aircraft Name: Sikorsky SH-60 Sea Hawk  
 Engine Type: T700-GE-401 -401C  
 Identification: #1  
 Category: SMTH  
 Take Off weight: 9185.00 Kgs  
 Approach Weight: 9185.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

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Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
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Year: 2014  
 Annual Departures: 10500  
 Annual Arrivals: 10500  
 Annual TGOs: 0  
 Taxi Out Time: 0.010000 min  
 Taxi In Time: 0.010000 min

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

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

GSE Population	Baseline, Cochise County
None.	
Parking Facilities	Baseline, Cochise County
None.	
Roadways	Baseline, Cochise County
None.	
Stationary Sources	Baseline, Cochise County
None.	
Training Fires	Baseline, Cochise County
None.	
Gates	Baseline, Cochise County
None.	
Taxiways	Baseline, Cochise County
None.	
Runways	Baseline, Cochise County
None.	
Taxipaths	Baseline, Cochise County
None.	
Configurations	Baseline, Cochise County
None.	
Buildings	Baseline, Cochise County
None.	
Discrete Cartesian Receptors	Baseline, Cochise County
None.	
Discrete Polar Receptors	Baseline, Cochise County
None.	
Cartesian Receptor Networks	Baseline, Cochise County
None.	
Polar Receptor Networks	Baseline, Cochise County
None.	
User-Created Aircraft	Baseline, Cochise County
None.	
User-Created GSE	Baseline, Cochise County
None.	
User-Created APU	Baseline, Cochise County
None.	

# Aircraft Emissions by Mode

(Metric Tons per Year)

## Baseline - Cochise County 2014

Type	Engine	ID	Euro. ...	Mode	CO2	CO	THC	NM...	VOC	TOG	NOX	SOX	PM...	Fuel Consu...
Lockheed C-130 Herc...	T56-A-15	#1	TP	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi Out	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	Takeoff	207.219	0.076	0.004	0.004	0.004	0.004	0.741	0.085	N/A	65.680
Lockheed C-130 Herc...	T56-A-15	#1	TP	Climb Out	2,682.543	2.702	0.477	0.551	0.549	0.551	6.039	1.099	N/A	850.251
Lockheed C-130 Herc...	T56-A-15	#1	TP	Approach	124.927	0.707	0.316	0.366	0.364	0.366	0.174	0.051	N/A	39.596
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi In	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Taxi Out	1.837	0.007	0.000	0.000	0.000	0.000	0.003	0.001	N/A	0.582
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Takeoff	164.562	0.627	0.035	0.040	0.040	0.040	0.275	0.067	N/A	52.159
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Climb Out	11.440	0.044	0.002	0.003	0.003	0.003	0.019	0.005	N/A	3.626
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Approach	248.886	0.976	0.053	0.061	0.061	0.061	0.399	0.102	N/A	78.886
Sikorsky SH-60 Sea H...	T700-GE-401 -4...	#1	H2	Taxi In	2,561.858	10.101	0.545	0.630	0.626	0.630	4.110	1.049	N/A	811.999

# Aircraft Emissions Summary

(Metric Tons per Year)

Baseline - Cochise County 2014

Type	Engine	ID	Euro. G...	CO2	CO	THC	NM...	VOC	TOG	NOx	SOx	PM...	PM...	Fuel Consu...	
Lockheed C-130 Herc...	T56-A-15	#1	TP	Total	3,014.689	3,485	0.797	0.921	0.916	0.921	6,954	1,235	N/A	N/A	955.527
Lockheed C-130 Herc...	T56-A-15	#1	TP	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401	-40...#1	H2	Total	2,988.582	11,754	0.635	0.734	0.730	0.734	4,807	1,224	N/A	N/A	947.253
Sikorsky SH-60 Sea H...	T700-GE-401	-40...#1	H2	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401	-40...#1	H2	GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# Emissions Inventory Summary

(Metric Tons per Year)

Baseline - Cochise County 2014

Category	CO2	CO	THC	NMHC	VOC	TOG	NOX	SOX	PM-10	PM-2.5
Aircraft	6,003.271	15.239	1.431	1.655	1.646	1.655	11.761	2.458	N/A	N/A
GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stationary Sources	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	6,003.271	15.239	1.431	1.655	1.646	1.655	11.761	2.458	N/A	N/A

# EDMS 5.1 Model Inputs for Gila\_Pinal\_Santa\_Cruz\_Graham\_Counties Study

Study Created: Wed Jan 15 09:13:49 2014  
Report Date: Wed Jan 15 09:42:36 2014  
Study Pathname: C:\EDMS 5.1\Gila\_Pinal\_Santa\_Cruz\_Graham\_Counties\Gila\_Pinal\_Santa\_Cruz\_Graham\_Counties.edm

## Study Setup

Unit System: Metric  
Dispersion Modeling: Dispersion is not enabled for this study  
Speciated Hydrocarbon Modeling: Speciated Hydrocarbon Modeling is not enabled for this study  
Analysis Years: 2014

## Scenarios

Scenario Name:	Description:	Add a description.
Baseline	Aircraft Times in Mode Basis:	Performance-Based
	Taxi Time Modeling:	User-specified Taxi Times
	FOA3 Sulfur-to-Sulfate Conversion Rate:	2.400000 %

## Airports

Airport Name:	Gila_Pinal_Santa Cruz and Graham Counties
IATA Code:	DMA
ICAO Code:	KDMA
FAA Code:	
Country:	US
State:	Arizona
City:	Tucson
Airport Description:	Davis Monthan Afb
Latitude:	32.166°
Longitude:	-110.883°
Northing:	3558893.53
Easting:	511017.69
UTM Zone:	12
Elevation:	2704.00 feet
PM Modeling Methodology:	FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%)

## Scenario-Airport: Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

## Weather

Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

Mixing Height: 914.40 meters  
Temperature: 20.00 °C  
Daily High Temperature: 25.75 °C  
Daily Low Temperature: 14.25 °C  
Pressure: 101320.73 Pa  
Sea Level Pressure: 101219.14 Pa  
Relative Humidity: 33.22  
Wind Speed: 12.61 kph  
Wind Direction: 0.00 °  
Ceiling: 30480.00 m  
Visibility: 80.47 km  
The user has used annual averages.  
Base Elevation: 824.18 meters  
Date Range: Thursday, January 01, 2004 to Friday, December 31, 2004  
Source Data File Location:  
Upper Air Data File Location:

## Quarter-Hourly Operational Profiles

Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

Name: DEFAULT



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

### Daily Operational Profiles

Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

Name: DEFAULT

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

### Monthly Operational Profiles

Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

Name: DEFAULT

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

### Aircraft

Baseline, Gila\_Pinal\_Santa Cruz and Graham Counties

Default Taxi Out Time: 19.000000 min

Default Taxi In Time: 7.000000 min  
Year: Uses Schedule? Schedule Filename:  
 2014 No (None)

Aircraft Name: Lockheed C-130 Hercules  
 Engine Type: T56-A-15  
 Identification: #1  
 Category: LMTC  
 Take Off weight: 70225.00 Kgs  
 Approach Weight: 61143.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

---

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

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Year: 2014  
 Annual Departures: 1500  
 Annual Arrivals: 1500  
 Annual TGOs: 240  
 Taxi Out Time: 0.010000 min  
 Taxi In Time: 0.010000 min

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

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Aircraft Name: Sikorsky SH-60 Sea Hawk  
 Engine Type: T700-GE-401 -401C  
 Identification: #1  
 Category: SMTH  
 Take Off weight: 9185.00 Kgs  
 Approach Weight: 9185.00 Kgs  
 Glide Slope: 3.00°  
 APU Assignment: None  
 APU Departure OP Time: 13.00 min  
 APU Arrival OP Time: 13.00 min  
 Gate Assignment: None

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Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
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Year: 2014  
 Annual Departures: 1500  
 Annual Arrivals: 1500  
 Annual TGOs: 0  
 Taxi Out Time: Determined by Sequencing model  
 Taxi In Time: Determined by Sequencing model

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

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

GSE Population	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Parking Facilities	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Roadways	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Stationary Sources	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Training Fires	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Gates	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Taxiways	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Runways	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Taxipaths	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Configurations	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Buildings	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Discrete Cartesian Receptors	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Discrete Polar Receptors	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Cartesian Receptor Networks	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
Polar Receptor Networks	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
User-Created Aircraft	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
User-Created GSE	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	
User-Created APU	Baseline, Gila_Pinal_Santa Cruz and Graham Counties
None.	

# Aircraft Emissions by Mode

(Metric Tons per Year)

## Baseline - Gila\_Pinal\_Santa\_Cruz and Graham Counties 2014

Type	Engine	ID	Euro. G...	Mode	CO2	CO	THC	NM...	VOC	TOG	NOx	SOx	PM...	PM...	Fuel Consu...
Lockheed C-130 Herc...	T56-A-15	#1	TP	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi Out	0.394	0.004	0.002	0.003	0.003	0.003	0.000	0.000	N/A	N/A	0.125
Lockheed C-130 Herc...	T56-A-15	#1	TP	Takeoff	513.776	0.297	0.059	0.069	0.068	0.069	1.760	0.210	N/A	N/A	162.845
Lockheed C-130 Herc...	T56-A-15	#1	TP	Climb Out	797.126	0.473	0.046	0.054	0.053	0.054	2.387	0.326	N/A	N/A	252.655
Lockheed C-130 Herc...	T56-A-15	#1	TP	Approach	217.112	1.199	0.531	0.614	0.610	0.614	0.303	0.089	N/A	N/A	68.815
Lockheed C-130 Herc...	T56-A-15	#1	TP	Taxi In	15.281	0.091	0.044	0.051	0.050	0.051	0.022	0.006	N/A	N/A	4.843
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Startup	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Taxi Out	498.544	1.940	0.105	0.121	0.120	0.121	0.799	0.204	N/A	N/A	158.017
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Takeoff	23.509	0.090	0.005	0.006	0.006	0.006	0.039	0.010	N/A	N/A	7.451
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Climb Out	1.634	0.006	0.000	0.000	0.000	0.000	0.003	0.001	N/A	N/A	0.518
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Approach	35.555	0.139	0.008	0.009	0.009	0.009	0.057	0.015	N/A	N/A	11.269
Sikorsky SH-60 Sea H...	T700-GE-401	-40... #1	H2	Taxi In	549.391	2.157	0.116	0.134	0.134	0.134	0.881	0.225	N/A	N/A	174.134

# Aircraft Emissions Summary

(Metric Tons per Year)

## Baseline - Gila\_Pinal\_Santa\_Cruz and Graham Counties 2014

Type	Engine	ID	Euro. G...	CO2	CO	THC	NM...	VOC	TOG	NOx	SOx	PM...	PM...	Fuel Consu...	
Lockheed C-130 Herc...	T56-A-15	#1	TP	Total	1,543.689	2,064	0.683	0.789	0.785	0.789	4.472	0.632	N/A	N/A	489.283
Lockheed C-130 Herc...	T56-A-15	#1	TP	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lockheed C-130 Herc...	T56-A-15	#1	TP	GSE	N/A	0.391	N/A	0.120	0.128	0.130	1.564	0.002	0.093	0.091	N/A
Sikorsky SH-60 Sea H...	T700-GE-401	-40...	#1	Total	1,108.634	4.332	0.234	0.270	0.269	0.270	1.780	0.454	N/A	N/A	351.390
Sikorsky SH-60 Sea H...	T700-GE-401	-40...	#1	APU(s)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sikorsky SH-60 Sea H...	T700-GE-401	-40...	#1	GSE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Emissions Inventory Summary

(Metric Tons per Year)

### Baseline - Gila\_Pinal\_Santa\_Cruz and Graham Counties 2014

Category	CO2	CO	THC	NMHC	VOC	TOG	NOx	SOx	PM-10	PM-2.5
Aircraft	2,652.323	6.396	0.916	1.059	1.054	1.059	6.252	1.086	N/A	N/A
GSE	N/A	0.391	N/A	0.120	0.128	0.130	1.564	0.002	0.093	0.091
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stationary Sources	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	2,652.323	6.787	0.916	1.179	1.182	1.190	7.815	1.089	0.093	0.091