*Values Across All Replications*

## Airport Airside Simulation

Replications:    5       Time Units:      Minutes

## Key Performance Indicators

### System

| | Average |
|---|---|
| Number Out | 12 |

## Airport Airside Simulation

Replications:    5        Time Units:        Minutes

## Entity

### Time

| VA Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 53.8268 | 61.01 | 0.00 | 90.4636 | 0.00 | 101. |

| NVA Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. |

| Wait Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 8.7495 | 11.46 | 0.00 | 20.3312 | 0.00 | 53.15 |

| Transfer Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 4.2000 | 4.76 | 0.00 | 7.0000 | 0.00 | 7.00 |

| Other Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. |

| Total Time | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 66.7762 | 75.95 | 0.00 | 117.79 | 0.00 | 142. |

### Other

| Number In | Average | Half Width | Minimum Average | Maximum Average |
|---|---|---|---|---|
| Plane | 112.20 | 12.21 | 100.00 | 125.00 |

| Number Out | Average | Half Width | Minimum Average | Maximum Average |
|---|---|---|---|---|
| Plane | 12.4000 | 15.52 | 0.00 | 28.0000 |

| WIP | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maxim Va |
|---|---|---|---|---|---|---|
| Plane | 46.8564 | 18.16 | 33.5750 | 64.4144 | 0.00 | 125. |

## Airport Airside Simulation

| Replications: | 5 | Time Units: | Minutes |
|---|---|---|---|

## Queue

### Time

#### Waiting Time

| | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maximum Value |
|---|---|---|---|---|---|---|
| Board Passengers.Queue | 1.8106 | 1.00 | 0.7231 | 2.5589 | 0.00 | 12.05 |
| Deboard Passengers.Queue | 1.4258 | 2.36 | 0.00 | 4.2807 | 0.00 | 15.32 |
| Get a Tug to Runway.Queue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. |
| Get a Tug.Queue | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. |
| Landing.Queue | 4.6258 | 0.95 | 3.7037 | 5.8223 | 0.00 | 21.58 |
| Load Luggage.Queue | 0.02763468 | 0.08 | 0.00 | 0.1382 | 0.00 | 2.94 |
| Park in Apron.Queue | 1.2403 | 1.92 | 0.00 | 3.7208 | 0.00 | 21.94 |
| Refuel Plane.Queue | 0.1767 | 0.22 | 0.00 | 0.3808 | 0.00 | 4.94 |
| Remove Baggage.Queue | 0.06407376 | 0.09 | 0.01042880 | 0.1700 | 0.00 | 4.93 |
| TakeOff.Queue | 2.9254 | 3.42 | 0.00 | 5.6285 | 0.00 | 24.73 |

### Other

#### Number Waiting

| | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maximum Value |
|---|---|---|---|---|---|---|
| Board Passengers.Queue | 0.03918884 | 0.04 | 0.00535603 | 0.08529613 | 0.00 | 2.00 |
| Deboard Passengers.Queue | 0.04099043 | 0.07 | 0.00 | 0.1149 | 0.00 | 2.00 |
| Get a Tug to Runway.Queue | 5.8937 | 1.46 | 4.4339 | 7.1194 | 0.00 | 8.00 |
| Get a Tug.Queue | 35.6392 | 17.55 | 22.7738 | 52.6682 | 0.00 | 112. |
| Landing.Queue | 0.4815 | 0.12 | 0.3429 | 0.5822 | 0.00 | 4.00 |
| Load Luggage.Queue | 0.00092116 | 0.00 | 0.00 | 0.00460578 | 0.00 | 1.00 |
| Park in Apron.Queue | 2.3700 | 0.52 | 1.8352 | 2.8100 | 0.00 | 3.00 |
| Refuel Plane.Queue | 0.00256757 | 0.00 | 0.00 | 0.00859358 | 0.00 | 1.00 |
| Remove Baggage.Queue | 0.00173528 | 0.00 | 0.00007725 | 0.00456607 | 0.00 | 1.00 |
| TakeOff.Queue | 0.05804004 | 0.08 | 0.00 | 0.1352 | 0.00 | 2.00 |

# Airport Airside Simulation

Replications:    5      Time Units:    Minutes

## Resource

### Usage

| Instantaneous Utilization | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maximum Value |
|---|---|---|---|---|---|---|
| Apron 1 | 0.9532 | 0.03 | 0.9072 | 0.9741 | 0.00 | 1.00 |
| Apron 2 | 0.9444 | 0.04 | 0.9066 | 0.9792 | 0.00 | 1.00 |
| Apron 3 | 0.9422 | 0.04 | 0.9027 | 0.9744 | 0.00 | 1.00 |
| Apron 4 | 0.9232 | 0.05 | 0.8701 | 0.9542 | 0.00 | 1.00 |
| Apron 5 | 0.9484 | 0.06 | 0.8709 | 0.9910 | 0.00 | 1.00 |
| Apron 6 | 0.9455 | 0.06 | 0.8637 | 0.9906 | 0.00 | 1.00 |
| Apron 7 | 0.9312 | 0.06 | 0.8548 | 0.9800 | 0.00 | 1.00 |
| Apron 8 | 0.9419 | 0.04 | 0.9038 | 0.9743 | 0.00 | 1.00 |
| Baggage Handler 1 | 0.1388 | 0.10 | 0.05437775 | 0.2457 | 0.00 | 1.00 |
| Baggage Handler 2 | 0.1137 | 0.08 | 0.04297477 | 0.1941 | 0.00 | 1.00 |
| Baggage Handler 3 | 0.0928 | 0.08 | 0.02882966 | 0.1657 | 0.00 | 1.00 |
| Bowser 1 | 0.1203 | 0.08 | 0.05089180 | 0.2004 | 0.00 | 1.00 |
| Bowser 2 | 0.1164 | 0.09 | 0.04668159 | 0.1987 | 0.00 | 1.00 |
| Bowser 3 | 0.1082 | 0.09 | 0.03363817 | 0.2037 | 0.00 | 1.00 |
| Mobile Lounge 1 | 0.2238 | 0.17 | 0.07891621 | 0.3964 | 0.00 | 1.00 |
| Mobile Lounge 2 | 0.2081 | 0.15 | 0.0902 | 0.3567 | 0.00 | 1.00 |
| Mobile Lounge 3 | 0.1839 | 0.15 | 0.06190402 | 0.3477 | 0.00 | 1.00 |
| Runway | 0.6416 | 0.05 | 0.5788 | 0.6864 | 0.00 | 1.00 |
| Tug 1 | 0.8260 | 0.15 | 0.6747 | 0.9515 | 0.00 | 1.00 |
| Tug 2 | 0.8296 | 0.14 | 0.6886 | 0.9460 | 0.00 | 1.00 |
| Tug 3 | 0.8355 | 0.14 | 0.6941 | 0.9532 | 0.00 | 1.00 |

# Category Overview

*Values Across All Replications*

## Airport Airside Simulation

| Replications: | 5 | Time Units: | Minutes |
|---|---|---|---|

## Resource

### Usage

| Number Busy | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maximum Value |
|---|---|---|---|---|---|---|
| Apron 1 | 0.9532 | 0.03 | 0.9072 | 0.9741 | 0.00 | 1.00 |
| Apron 2 | 0.9444 | 0.04 | 0.9066 | 0.9792 | 0.00 | 1.00 |
| Apron 3 | 0.9422 | 0.04 | 0.9027 | 0.9744 | 0.00 | 1.00 |
| Apron 4 | 0.9232 | 0.05 | 0.8701 | 0.9542 | 0.00 | 1.00 |
| Apron 5 | 0.9484 | 0.06 | 0.8709 | 0.9910 | 0.00 | 1.00 |
| Apron 6 | 0.9455 | 0.06 | 0.8637 | 0.9906 | 0.00 | 1.00 |
| Apron 7 | 0.9312 | 0.06 | 0.8548 | 0.9800 | 0.00 | 1.00 |
| Apron 8 | 0.9419 | 0.04 | 0.9038 | 0.9743 | 0.00 | 1.00 |
| Baggage Handler 1 | 0.1388 | 0.10 | 0.05437775 | 0.2457 | 0.00 | 1.00 |
| Baggage Handler 2 | 0.1137 | 0.08 | 0.04297477 | 0.1941 | 0.00 | 1.00 |
| Baggage Handler 3 | 0.0928 | 0.08 | 0.02882966 | 0.1657 | 0.00 | 1.00 |
| Bowser 1 | 0.1203 | 0.08 | 0.05089180 | 0.2004 | 0.00 | 1.00 |
| Bowser 2 | 0.1164 | 0.09 | 0.04668159 | 0.1987 | 0.00 | 1.00 |
| Bowser 3 | 0.1082 | 0.09 | 0.03363817 | 0.2037 | 0.00 | 1.00 |
| Mobile Lounge 1 | 0.2238 | 0.17 | 0.07891621 | 0.3964 | 0.00 | 1.00 |
| Mobile Lounge 2 | 0.2081 | 0.15 | 0.0902 | 0.3567 | 0.00 | 1.00 |
| Mobile Lounge 3 | 0.1839 | 0.15 | 0.06190402 | 0.3477 | 0.00 | 1.00 |
| Runway | 0.6416 | 0.05 | 0.5788 | 0.6864 | 0.00 | 1.00 |
| Tug 1 | 0.8260 | 0.15 | 0.6747 | 0.9515 | 0.00 | 1.00 |
| Tug 2 | 0.8296 | 0.14 | 0.6886 | 0.9460 | 0.00 | 1.00 |
| Tug 3 | 0.8355 | 0.14 | 0.6941 | 0.9532 | 0.00 | 1.00 |

## Airport Airside Simulation

Replications:    5      Time Units:     Minutes

## Resource

### Usage

| Number Scheduled | Average | Half Width | Minimum Average | Maximum Average | Minimum Value | Maximum Value |
|---|---|---|---|---|---|---|
| Apron 1 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 2 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 3 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 4 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 5 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 6 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 7 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Apron 8 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Baggage Handler 1 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Baggage Handler 2 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Baggage Handler 3 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Bowser 1 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Bowser 2 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Bowser 3 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Mobile Lounge 1 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Mobile Lounge 2 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Mobile Lounge 3 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Runway | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Tug 1 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Tug 2 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |
| Tug 3 | 1.0000 | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.00 |

# Category Overview

*Values Across All Replications*

## Airport Airside Simulation

| Replications: | 5 | Time Units: | Minutes |
|---|---|---|---|

## Resource

### Usage

| Scheduled Utilization | Average | Half Width | Minimum Average | Maximum Average |
|---|---|---|---|---|
| Apron 1 | 0.9532 | 0.03 | 0.9072 | 0.9741 |
| Apron 2 | 0.9444 | 0.04 | 0.9066 | 0.9792 |
| Apron 3 | 0.9422 | 0.04 | 0.9027 | 0.9744 |
| Apron 4 | 0.9232 | 0.05 | 0.8701 | 0.9542 |
| Apron 5 | 0.9484 | 0.06 | 0.8709 | 0.9910 |
| Apron 6 | 0.9455 | 0.06 | 0.8637 | 0.9906 |
| Apron 7 | 0.9312 | 0.06 | 0.8548 | 0.9800 |
| Apron 8 | 0.9419 | 0.04 | 0.9038 | 0.9743 |
| Baggage Handler 1 | 0.1388 | 0.10 | 0.05437775 | 0.2457 |
| Baggage Handler 2 | 0.1137 | 0.08 | 0.04297477 | 0.1941 |
| Baggage Handler 3 | 0.0928 | 0.08 | 0.02882966 | 0.1657 |
| Bowser 1 | 0.1203 | 0.08 | 0.05089180 | 0.2004 |
| Bowser 2 | 0.1164 | 0.09 | 0.04668159 | 0.1987 |
| Bowser 3 | 0.1082 | 0.09 | 0.03363817 | 0.2037 |
| Mobile Lounge 1 | 0.2238 | 0.17 | 0.07891621 | 0.3964 |
| Mobile Lounge 2 | 0.2081 | 0.15 | 0.0902 | 0.3567 |
| Mobile Lounge 3 | 0.1839 | 0.15 | 0.06190402 | 0.3477 |
| Runway | 0.6416 | 0.05 | 0.5788 | 0.6864 |
| Tug 1 | 0.8260 | 0.15 | 0.6747 | 0.9515 |
| Tug 2 | 0.8296 | 0.14 | 0.6886 | 0.9460 |
| Tug 3 | 0.8355 | 0.14 | 0.6941 | 0.9532 |

# Category Overview

*Values Across All Replications*
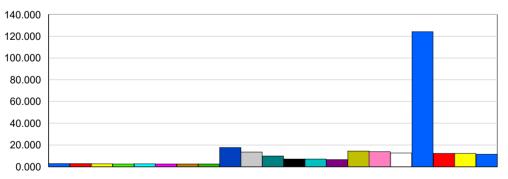
## Airport Airside Simulation

Replications: 5          Time Units:          Minutes

## Resource

### Usage

| Total Number Seized | Average | Half Width | Minimum Average | Maximum Average |
|---|---|---|---|---|
| Apron 1 | 2.8000 | 2.22 | 1.0000 | 5.0000 |
| Apron 2 | 2.8000 | 2.22 | 1.0000 | 5.0000 |
| Apron 3 | 2.6000 | 1.88 | 1.0000 | 4.0000 |
| Apron 4 | 2.4000 | 1.88 | 1.0000 | 4.0000 |
| Apron 5 | 2.6000 | 1.88 | 1.0000 | 4.0000 |
| Apron 6 | 2.4000 | 2.08 | 1.0000 | 5.0000 |
| Apron 7 | 2.4000 | 2.08 | 1.0000 | 5.0000 |
| Apron 8 | 2.4000 | 1.67 | 1.0000 | 4.0000 |
| Baggage Handler 1 | 17.6000 | 12.83 | 6.0000 | 30.0000 |
| Baggage Handler 2 | 13.4000 | 9.72 | 5.0000 | 24.0000 |
| Baggage Handler 3 | 9.8000 | 8.75 | 3.0000 | 18.0000 |
| Bowser 1 | 7.0000 | 5.04 | 3.0000 | 12.0000 |
| Bowser 2 | 7.0000 | 5.04 | 3.0000 | 12.0000 |
| Bowser 3 | 6.4000 | 5.45 | 2.0000 | 12.0000 |
| Mobile Lounge 1 | 14.4000 | 10.33 | 6.0000 | 24.0000 |
| Mobile Lounge 2 | 13.8000 | 10.29 | 6.0000 | 25.0000 |
| Mobile Lounge 3 | 12.6000 | 10.52 | 4.0000 | 23.0000 |
| Runway | 124.20 | 11.01 | 113.00 | 136.00 |
| Tug 1 | 12.2000 | 9.99 | 4.0000 | 21.0000 |
| Tug 2 | 12.2000 | 10.69 | 4.0000 | 24.0000 |
| Tug 3 | 11.4000 | 10.48 | 3.0000 | 22.0000 |