



SOUTHWEST WASHINGTON REGIONAL AIRPORT  
Kelso Airport - Airport Master Plan

# Southwest Washington Regional Airport Airport Master Plan

Planning Advisory Committee Meeting #2  
January 17, 2018





# SOUTHWEST WASHINGTON REGIONAL AIRPORT

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**EXISTING CONDITIONS - AIRFIELD**  
FIGURE 2-2



# SOUTHWEST WASHINGTON REGIONAL AIRPORT

## Kelso Airport - Airport Master Plan



**EAST TERMINAL**  
Scale: 1"=80'



**WEST TERMINAL**  
Scale: 1"=80'

**DRAFT**

**EXISTING CONDITIONS - EAST & WEST LANDSIDE AREAS**  
FIGURE 2-3

**SOUTHWEST WASHINGTON REGIONAL AIRPORT**  
AIRPORT MASTER PLAN



# Aviation Activity Forecasts

The purpose of the forecast analysis is to define current and future demand for the 20-year planning period

- Based Aircraft
- Aircraft Operations (Takeoffs and Landings)
  - Local and Transient Activity (general, commercial and business aviation)
  - Military Operations
- Specific Activity Breakdowns (Peaking, Aircraft Fleet Mix, etc.)

# Baseline Data

The usual historical data sources and forecasts were not reliable.  
Updated estimates of current airport activity were required.

**Based Aircraft  
67 Total**

*2017 Airport Management Validated Count using  
[www.basedaircraft.com](http://www.basedaircraft.com)*

# Operations Forecasts

**1. NPIAS Formula**

– 1.37% AAGR

**3. FAA National Growth Rate**

– 0.90% AAGR

**2. FAA Non-Towered Equation**

– 1.38% AAGR

**4. 2007 WASP – Modified**

– 1.79% AAGR

*Average Annual Growth Rate (AAGR)*

# Estimated 2017 Aircraft Operations

## Aircraft Operations

30,178 annual aircraft operations

67 based aircraft

$(30,178/67=450.4)$

Operations Per Based Aircraft: 450

*Note: Does not include military operations*

# Selected Forecast

## Medium Projection (2017-2037)

- 1.38% AAGR
- Increase of 9,484 Ops
- Increase of 21 Based Aircraft

	2017	2022	2027	2032	2037
Operations	30,778	33,403	35,557	37,837	40,262
Based AC	67	76	80	84	88



# Design Aircraft

## Design Aircraft (Existing)

- Airport Reference Code (ARC): B-I
- Raytheon/Beechcraft Baron 58  
(Representative AC type, multi-engine piston)



## Design Aircraft (Future)

- ARC: B-II
- Cessna Citation 550/560 Series  
(Representative AC type, multi-engine jet)



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<p><b>A-I</b> 12,500 lbs. or less (small)</p>	<p><b>B-I</b> 12,500 lbs. or less (small)</p>	<p><b>A-II, B-II</b> 12,500 lbs. or less (small)</p>	<p><b>B-II</b> Greater than 12,500 lbs.</p>	<p><b>A-III, B-III</b> Greater than 12,500 lbs.</p>
<p>Beech Baron 55 Beech Bonanza <b>Cessna 182</b> Piper Archer Piper Seneca</p>	<p><b>Beech Baron 58</b> Beech King Air 100 Cessna 402 Cessna 421 Piper Navajo Piper Cheyenne Cessna Citation I</p>	<p>Super King Air 200 <b>Cessna 441</b> DHC Twin Otter Cessna Caravan King Air C90</p>	<p>Super King Air 300, 350 Beech 1900 <b>Jetstream 31</b> Falcon 20, 50 Falcon 200, 900 Citation II, Bravo XLS+ Citation CJ3</p>	<p>DHC Dash 7 DHC Dash 8 <b>Q-300, Q-400</b> DC-3 Convair 580 Fairchild F-27 ATR 72 ATP</p>
				
<p><b>C-I, D-I</b></p>	<p><b>C-II, D-II</b></p>	<p><b>C-III, D-III</b></p>	<p><b>C-IV, D-IV</b></p>	<p><b>D-V</b></p>
<p>Lear 25, 35, 55, 60 Israeli Westwind HS 125-700</p>	<p>Gulfstream II, III, IV <b>Canadair 600</b> Canadair Regional Jet Lockheed JetStar Citation X Citation Sovereign Hawker 800 XP</p>	<p>Boeing Business Jet <b>B 727-200</b> B 737-300 Series MD-80, DC-9 Foker 70, 100 A319, A320 Gulfstream V Global Express</p>	<p><b>B-757</b> B-767 DC - 8-70 DC - 10 MD - 11 L 1011</p>	<p><b>B - 747 Series</b> B - 777</p>



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## AIRPORT REFERENCE CODES (ARC)