Southwest Washington Regional Airport
Airport Master Plan
Planning Advisory Committee Meeting #2
January 17, 2018
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
Operations Forecasts

1. NPIAS Formula
   - 1.37% AAGR

2. FAA Non-Towered Equation
   - 1.38% AAGR

3. FAA National Growth Rate
   - 0.90% 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

\(\frac{30,178}{67} = 450.4\)

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

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2022</th>
<th>2027</th>
<th>2032</th>
<th>2037</th>
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</thead>
<tbody>
<tr>
<td>Operations</td>
<td>30,778</td>
<td>33,403</td>
<td>35,557</td>
<td>37,837</td>
<td>40,262</td>
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<tr>
<td>Based AC</td>
<td>67</td>
<td>76</td>
<td>80</td>
<td>84</td>
<td>88</td>
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</tbody>
</table>
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)
### Airport Master Plan

#### A-I
- Beech Baron 55
- Beech Bonanza
- Cessna 182
- Piper Archer
- Piper Seneca

#### B-I
- Beech Baron 58
- Beech King Air 100
- Cessna 402
- Cessna 421
- Piper Navajo
- Piper Cheyenne
- Cessna Citation I

#### A-II, B-II
- Super King Air 200
- Cessna 441
- DHC Twin Otter
- Cessna Caravan
- King Air C90

#### B-II
- Super King Air 300, 350
- Beech 1900D
- Jetstream 31
- Falcon 20, 50
- Falcon 200, 900
- Citation II, Bravo XLS+
- Citation CJ3

#### A-III, B-III
- DHC Dash 7
- DHC Dash 8
- Q-300, Q-400
- DC-3
- Convair 580
- Fairchild F-27
- ATR 72
- ATP

#### C-I, D-I
- Lear 25, 35, 55, 60
- Israeli Westwind
- HS 125-700

#### C-II, D-II
- Gulfstream II, III, IV
- Canadair 600
- Canadair Regional Jet
- Lockheed JetStar
- Citation X
- Citation Sovereign
- Hawker 800 XP

#### C-III, D-III
- Boeing Business Jet
- B 727-200
- B 737-300 Series
- MD-80, DC-9
- Fokker 70, 100
- A319, A320
- Gulfstream V
- Global Express

#### C-IV, D-IV
- B-777
- B-767
- DC-9
- DC-10
- MD-11
- L-1011

#### D-V
- B-747 Series
- B-777

**Airport Reference Codes (ARC)**

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**Century West**

**Engineering Corporation**

**Washougal, WA**

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**Kelso Airport - Airport Master Plan**