



PDX Master Plan Update and Land Use Plan Inventory of Existing Conditions

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All sections include a 1) summary of existing conditions (definitions, basic issues) and 2) paragraph noting conditions (opportunities and constraints) that should be considered in assessing facility requirements and evaluating alternatives, noting areas that may need additional review in future

4.0 EXISTING LAND USES

4.1 Airport Property

Airfield
Terminal
Ground Transportation
Airport Support
Figure: Airport Property

4.2 Aviation Reserve / Other Aviation Related

Portland International Center (PIC)
SW Quad
Cascade Station
Government Island
Areas with infrastructure deficiencies
Figure: Undeveloped Properties
Figure: Existing Land Uses Surrounding Airport

4.3 Area Land Uses

Noise Contours
City of Portland “x” and “h” Overlays
Zoning / Land Use
Figure: Zoning for Secondary Land Use Study Area
Figure: Land Use Inventory for Secondary Land Use Study Area

4.4 Urban Development Framework

Figure: Bubble diagram showing land use and transportation connections

5.0 AIRFIELD FACILITIES

5.1 Runway

Runway Configuration
North Runway Extension
Figure: Basic Airport Layout, showing runway, taxiways, and other airfield facilities

5.2 Taxiways

5.3 Aprons and Aircraft Parking

Aprons
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5.4 Pavement Use and Management

5.5 Navigational aids (NAVAIDS) / Lighting

Instrument Approaches
Navigational Aids
Lighting

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5.7 Airfield use

Runway Use

Arrivals

Departures

Airfield Operations

Air Traffic Control Coordination

6.0 AIRSPACE FACILITIES

6.1 National Airspace Structure

Figure: Airspace Classification

6.2 Delegation of Air Traffic Control Responsibilities

Air Route Traffic Control Center (ARTCC)

Terminal Radar Approach Control (TRACON)

Air Traffic Control Tower (ATCT)

Figure: Airspace Facility Locations

6.3 Local Air Traffic Control Procedures

Visual Flight Rules (VFR) Procedures

Instrument Flight Rules (IFR) Procedures

Figure: Regional Airspace

Figure: Regional Setting

6.4 Neighboring Airports

Pearson

Troutdale (TTD)

Hillsboro

Seattle

Table: Neighboring Airports Summary

Figure: Airports Near PDX

6.5 FAR Part 77 Imaginary Surfaces

Approach

Transitional

Primary

Horizontal

Conical

Figure: Part 77 Surfaces

6.6 Obstructions

Figure: Airport Approach Plan & Profile

6.7 Noise Management

Ground Run-Up Enclosure

Noise Abatement - Approach procedures

Figure: Approach Procedures

7.0 PASSENGER AND TERMINAL FACILITIES

7.1 Commercial Passenger Facilities

Central Area

Concourses

Concourse Connector

Figure: Terminal / Concourse Functional Area Allocation

Table: Airline Gate Utilization

Figure: Existing Gate Allocation

7.2 Passenger and Baggage Screening Facilities

Passenger Screening

EDS / In-line Baggage Screening

CTX Machines

Common Use Terminal Equipment (CUTE)

ITS

7.3 Concessions

Figure: Concessions

7.4 Conference Center

Address HQP2 Changes

7.5 Other Passenger Services

Business Centers

Wi-Fi services

Airline Club Rooms

Children's Play Areas

International Arrivals Area

8.0 GROUND TRANSPORTATION FACILITIES

8.1 Physical Inventory

8.1.1 Off-Airport Roadway System

Street classifications (freeways, arterials, freight, bike, pedestrian, emergency, light rail, etc...)

Mode splits

Connectivity issues in industrial areas

Figure: Problems Identified in CUMP

Figure: Regional Roadway System

Figure: Off-Airport Roadways

8.1.2 On-Airport Roadway System

Terminal Curbside Inventory (private and commercial vehicles, pedestrians, bicyclists)

On-Site Traffic Circulation

Airport Ingress / Egress

LRT Facilities

Mode Splits

Figure: On-Airport Roadways

Table: Existing Curb Frontage

8.1.3 Parking Facilities

Public Parking Facilities

Employee Parking

HQP2

Automated Parking Guidance

Quick Pay

Privately Operated Public Parking

Table: Public Parking Supply

Figure: Parking Facilities (Public and Employee)

8.1.4 Ground Transportation Services

Private Vehicles

Rental Cars Facilities / Service

Taxi / Limo Service

Shuttles

 Courtesy Vehicles

 Bus Airport Service (utilization, curbside)

 For-Hire Shuttle Service

Transit

 Public Transit Bus Service

 Light Rail (TriMet MAX, CTRAN)

Pedestrian / Bicycle Trails

Figure: Location of Transportation Loading / Unloading Areas

Figure: Bus / Light Rail System / Route Maps and Stop Locations

Figure: PDX Bicycle and Pedestrian Plan

8.2 Traffic Characteristics

8.2.1 24-Hour Airport Access Traffic Counts

Daily Traffic Variation

Hourly Traffic Variation

82nd Ave. and Airport Way interchange

I-205 left turn

Table: 24 Hour Traffic Count Summary – ADT

Figure: ADT – 24 Hr Count Stations and Summary

Figure: Traffic Distribution by Access Point

Figure: Daily Traffic Variation

Figure: Hourly Traffic Variation

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Terminal curbsides

Parking Lots

Classified by Mode

Table: Vehicle Classification

8.2.3 Vehicle Dwell Times

Terminal curbsides (high level summary)

Table: Vehicle Dwell Times

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Hourly Parking Accumulation
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- 9.1 Air Cargo Facilities**
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Cargo Apron
Feeder Lines
AirTrans Cargo Center
Table: Existing Airport Support Facilities
Figure: Air Cargo and Airport Support Facilities
- 9.2 General Aviation (GA) Facilities**
Primary GA Services
GA Areas
Hangar Capacity
Terminal / Office / Maintenance
Fueling
Secondary GA Services

Additional Services
Vehicle Parking
Figure: GA Facilities (highlighted)

9.3 Aircraft Rescue and Fire Fighting (ARFF) Facilities

Figure: ARFF

Table: AARF Vehicle Description

9.4 Aircraft Fuel Storage Facilities

9.5 Airline Maintenance Facilities

Horizon Maintenance Facility

Boeing Maintenance Hanger

9.6 Airport Office and Maintenance Facilities

9.7 Other Airport Support Facilities

FAA

Ground Support Equipment (GSE) Facilities

Flight Kitchen

Wash Rack

Fueling Systems

Figure: Airport Support Facilities

10.0 EXISTING UTILITIES

10.1 Central Plant

10.2 Electric

10.3 Water

10.4 Natural Gas

10.5 Sanitary Sewer

10.6 Telecommunications

10.7 Storm Drainage

Deicing

10.8 Fuel Transfer Line

11.0 PORTLAND AIR BASE

12.0 ENVIRONMENTAL CONDITIONS

12.1 Natural Resources

Primary Study Boundary

Vegetation Types

Secondary Study Boundary

Vegetation Types
Wildlife Habitat Discussion

12.2 Air Quality
Port Emissions Inventory
Regional Air Quality

12.3 Water Quality
Study Area Boundary