



OREGON AVIATION PLAN AIRPORT SUMMARY

NEWPORT MUNICIPAL AIRPORT

In 2018, the Oregon Department of Aviation (ODA) updated the Oregon Aviation Plan (OAP v6.0) for the state airport system which includes 95 airports, one heliport and one seaplane base. The study area was statewide and considered both commercial service and general aviation airports. Airports outside of Oregon in proximity to the state were considered as well. The study includes Newport Municipal Airport (ONP or the Airport). This section focuses on the system plan's individual findings and recommendations for this facility as well as documenting the various benefits the Airport provides in Oregon.

Aviation system plans are top down studies that must be implemented from the bottom up by individual airports. The ultimate success of the plan depends on each airport implementing recommendations from the study and following through on any identified improvement actions. Individual airport improvements will result in the enhancement of overall system performance.

Within the statewide system, the Newport Municipal Airport has been designated as a Category II – Urban General Aviation Airport in the 2007 OAP. Within the OAP, a Category II airports supports all general aviation aircraft and accommodates corporate aviation activity, including piston and turbine engine aircraft, business jets, helicopters, gliders, and other general aviation operations. The most demanding user requirements are business-related. These airports service a multi-state geographic region and/or experience robust levels of general aviation activity.

Some, but not all of the study airports also have federal role definitions from the FAA. Within FAA's ASSET Study and National Plan of Integrated Airport Systems (NPIAS), the Newport Municipal Airport is designated as a Regional General Aviation Airport; this designation signifies the Airport's importance to the federal system of public-use airports. From the economic impacts it provides and the volume of business activity it serves, Newport Municipal Airport has all the attributes of a Regional General Aviation Airport. Its airfield facilities are in line Regional General Aviation Airport; hence the OAP v6.0 recommends that this airport maintain this role within the NPIAS.

From a facilities standpoint, the Newport Municipal Airport meets most of the objectives for an OAP Category II Airport. It is worth noting, however, that the Airport's own capital improvement plan and/or master plan may recommend additional projects that it will be needed over the coming 10 years. The OAP also does not identify all maintenance, rehabilitation, and replacement costs that could be incurred by the Airport during this period.

EXISTING OREGON AIRPORT SYSTEM 2018



More information on the OAP can be obtained from the ODA Aviation website at <https://www.oregon.gov/aviation/pages/index.aspx>. In addition to the complete Technical Report, a statewide Executive Summary was produced to support the OAP. More information on all OAP-related products can be obtained from ODA.



OREGON AIRPORT ROLES/CATEGORIES

ODA’s Oregon Aviation Plan was last published in 2007. This update to the OAP re-sets the bar for future system performance by evaluating each airport’s facilities and services. Since 2007, a number of Oregon airports have made progress toward meeting various performance measures. As part of this study, airport infrastructure data, aviation activity projections and population growth in each airport’s environs were used to determine whether the airport should be elevated to a higher OAP Category to improve overall system accessibility and performance. The OAP v6.0 also addressed the need for airports to support resiliency efforts related to a potential Cascadia Earthquake and Tsunami Event.

Recommended categories for airports in the Oregon Aviation Plan are shown below.

OAP AIRPORT CATEGORIES RECOMMENDED OREGON AIRPORT ROLES

Category I	Commercial Service Airport: These airports support some level of scheduled commercial airline service in addition to supporting a full range of general aviation aircraft activities. Commercial service includes both domestic and international destinations. Objectives call for a minimum runway length of 6,000 feet.
Category II	Urban General Aviation Airport: These airports support all general aviation aircraft and accommodate corporate aviation activity, including piston and turbine engine aircraft, business jets, helicopters, gliders, and other general aviation activity. The most demanding user requirements are business-related. These airports service a large/multi-state geographic region or experience high levels of general aviation activity. The minimum runway length objective for Category II airports is 5,000 feet.
Category III	Regional General Aviation: These airports support most twin and single-engine aircraft and may accommodate occasional business jets. These airports support regional transportation needs with a large and often sparsely populated service area. The minimum runway length objective for Category III airports is 4,000 feet.
Category IV	Local General Aviation Airport: These airports support primarily single-engine general aviation aircraft but are capable of accommodating smaller twin-engine general aviation aircraft. These airports support local air transportation needs and special-use aviation activities. The minimum runway length objective for Category IV airports is 3,000 feet.
Category V	Remote Access/Emergency Services (RAES): These airports support primarily single-engine general aviation aircraft, special-use aviation activities, access to remote areas, or provide emergency service access. These airports should have at least 2,500 feet of runway.

Source: Jviation

NEWPORT MUNICIPAL AIRPORT OVERVIEW

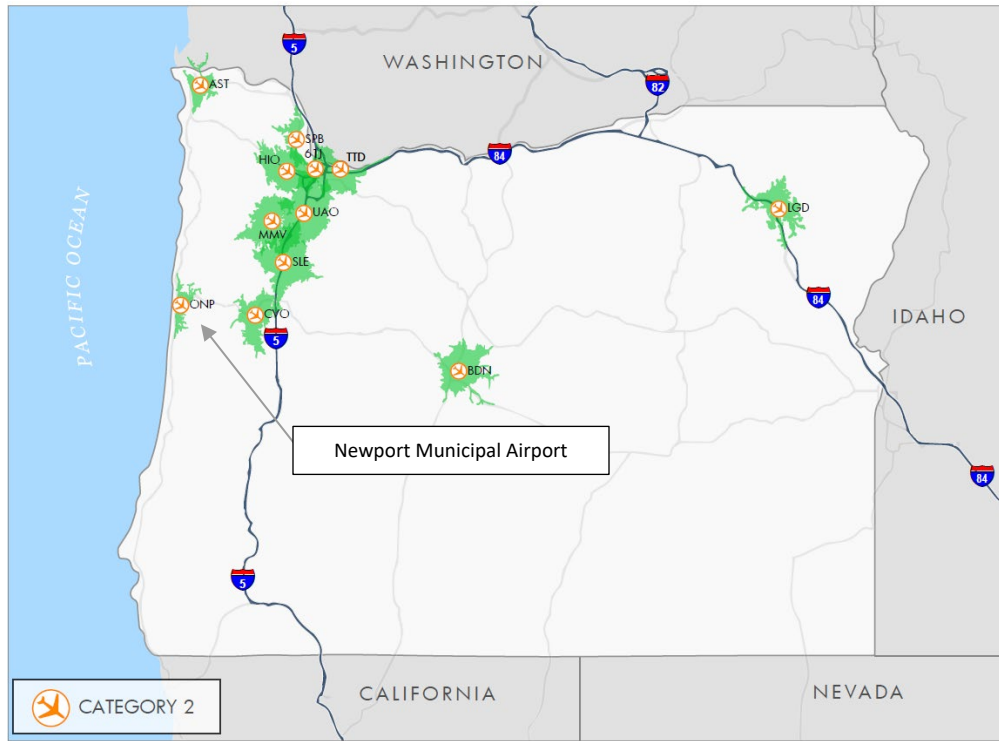
The City of Newport is located along the Pacific Ocean coastline in Lincoln County. Newport Municipal Airport is situated on 700 acres, three miles south of the City. The Airport is approximately 65 miles southwest of Salem. The Airport is owned by the City of Newport. The Airport is an important asset for the region as it regularly supports U.S. Coast Guard and scheduled air cargo carrier activity. In the 1980s a group of Newport's businesses and government leaders joined together to identify that the community needed to diversify its dependence on the cyclical ups and downs of the natural resource-based fishing and tourist industries. A strategic plan was formulated to develop Newport as destination resort and research center, thus capitalizing on the City's clean air, coastal location and quality of life. Since the 1980s, several significant changes have occurred in the local economy. The Oregon Coast Aquarium was completed in 1993 and attracted over 800,000 visitors in its first year. Also, many federal agencies are located at the Mark O. Hatfield Marine Science Center, Oregon State University's internationally recognized marine research facility.



The Airport's primary runway is oriented in a north-south direction. This runway, Runway 16/34, is 5,398 feet in length by 100 feet in width. This runway is currently equipped with a MALSR, HIRL, REILs, and PAPIs. The runway has a partial parallel taxiway and a non-precision approach. The Airport also has an AWOS to provide weather reports. The Airport handles an estimated 19,600 operations¹ annually. It is estimated that 58 percent of these operations are itinerant. Approximately 24 aircraft are based at the Airport.

¹ Includes military operations

30-MINUTE DRIVE TIME SERVICE AREA AND POPULATION OAP CATEGORY II AIRPORTS



Source: Jviation

Airport roles consider the characteristics of the area the airport serves. Analysis for the OAP was conducted using a geographic information system (GIS) and a 30-minute drive time for each airport. There are approximately 24,189 residents within a 30-minute drive of ONP and a labor force of approximately 14,361.

Newport Municipal Airport	
Population	
2016 30-minute drive	24,189
2016 Associated city	10,309
Labor force	
2016 30-minute drive	14,361

Source: US Census Bureau, Jviation Analysis, Oregon Zoomprospector.com, Oregon Population Center – Portland State University

RECOMMENDED ROLE FOR NEWPORT MUNICIPAL AIRPORT

Each airport’s level generally reflects the type of aircraft and customers the airport serves as well as the characteristics of the airport’s service area. Newport Municipal Airport will remain a Category II – Urban General Aviation Airport within the OAP.

As a Category II airport, the OAP has identified certain facilities and services that should ideally be in place. These objectives are considered the “minimums” to which the Airport should be developed. Based on local needs and other justifications, it is quite possible that the Airport could exceed its minimum development objectives established in the OAP. Newport Municipal Airport’s specific objectives, as they pertain to the Airport’s Category II role in the state airport system, are listed below.

OBJECTIVES FOR CATEGORY II – URBAN GENERAL AVIATION MINIMUM STANDARD GENERAL AVIATION AIRPORT

Airside Facilities

- » **Airport ARC:** C-II
- » **NPIAS:** Yes
- » **Based Aircraft:** ≥10 (NPIAS Standard)
- » **Runway orientation:** 95% wind coverage (combined primary/secondary rwy)
- » **Runway Pavement Type:** Bituminous, Concrete
- » **Runway Pavement Strength:** Varies by Airport* (≥30,000 lbs.)
- » **Runway length:** Minimum 5,000 feet
- » **Runway width:** 75 feet or 100 feet
- » **Taxiway:** Full parallel
- » **Lighting systems:** MIRL and MITL
- » **Approach:** Precision w/ vertical guidance
- » **Visual Approach Aids:** One Runway End
- » **Instrument Approach Aids:** Not an Objective
- » **Runway Lighting:** MIRL/HIRL/ALS
- » **Taxiway Lighting:** MITL/HITL
- » **Fencing:** Operations area at a minimum; entire airport desirable

General Aviation Facilities

- » **Rotating Beacon:** Yes
- » **Weather reporting:** AWOS or ASOS
- » **Lighted Wind Indicator:** Yes
- » **Hangared aircraft storage:** 75% of based aircraft fleet
- » **Apron parking/storage:** 75% of Daily Transient
- » **Terminal/Building:** Yes
- » **Auto parking:** Moderate
- » **Fencing:** Perimeter; controlled access
- » **Cargo:** Designated Apron Area
- » **Deicing Facility:** Not an Objective

Services

- » **Fuel:** 100 LL & Jet A (24-hour self-service)
- » **FBO:** Full Service (normal business hours)
- » **Transportation:** Offsite Rental Car, Taxi, etc.
- » **Food Service:** Vending
- » **Restrooms:** Yes
- » **Pilot Lounge:** Yes w/ Weather Reporting Station
- » **Snow Removal:** Yes
- » **Telephone:** Yes



NEWPORT MUNICIPAL AIRPORT PROJECTIONS OF AVIATION DEMAND

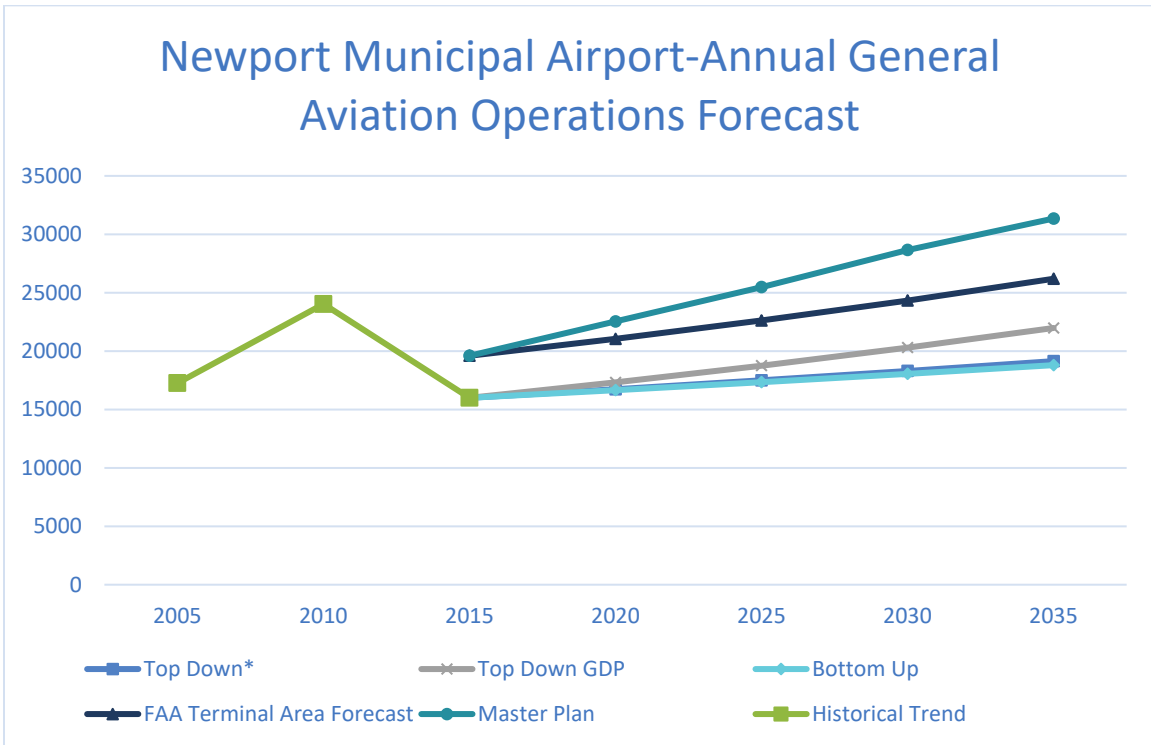
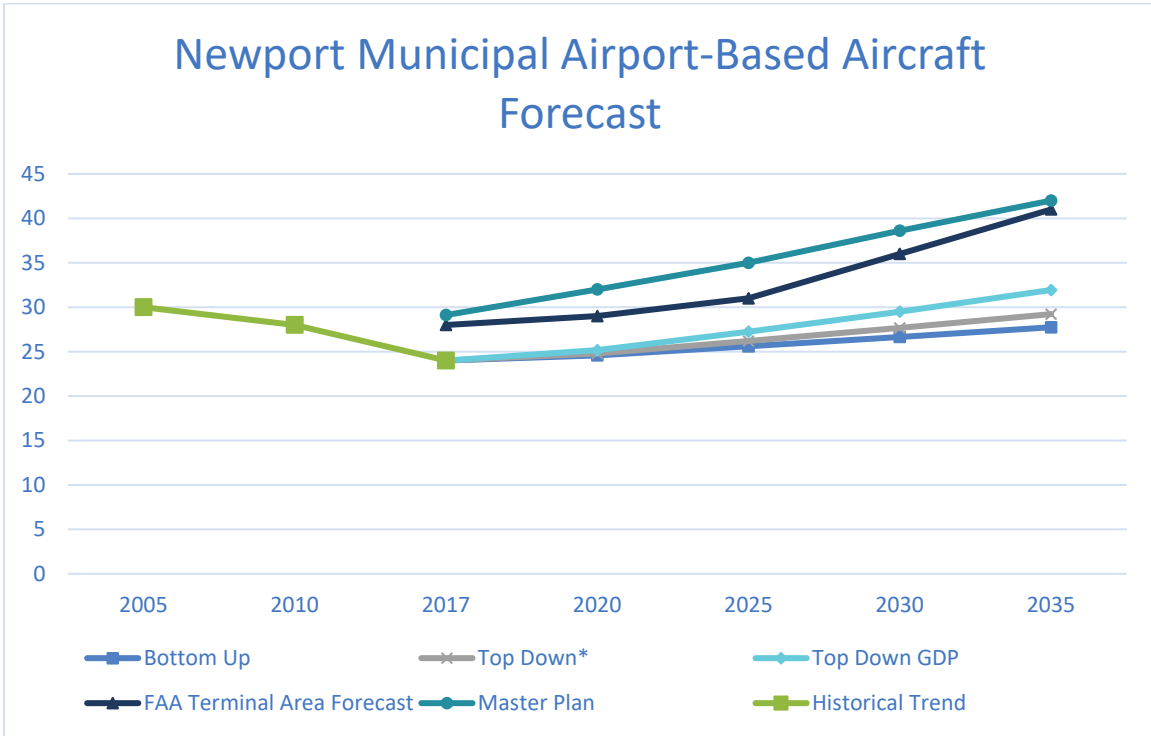
Over the past 10 years, general aviation has experienced a general decline on a nationwide basis and in Oregon. The high cost of acquiring and maintaining a general aviation aircraft, the cost to secure a private pilot's license, competing opportunities for allocation of disposable income, the economic recession, along with significant increases in the cost of aviation fuel, have all contributed to a contraction in general aviation demand.

Recent economic recovery and increased use of general aviation as a tool to improve business efficiency have helped to stabilize the general aviation industry. For most airports in Oregon, however, including Newport Municipal Airport, anticipated growth in general aviation demand will be modest at best. The two graphs below show projections of based aircraft and annual general aviation operations for ONP as they were developed in the OAP v6.0.

Three based aircraft projection methodologies were developed in this forecast. The bottom-up methodology produced an average annual growth rate of 0.8 percent and the top-down methodology based on historical Per Capita Real GDP produced the highest average annual growth rate, of the three projections, at 1.6 percent. The alternative top-down methodology utilizing FAA Terminal Area Forecast projections for NPIAS airports in Oregon produced more moderate growth rate. Comparing the results of the forecasts indicated that the historical Per Capita Real GDP projection had the strongest growth, but was considered to be overly optimistic, since sustaining a 1.6 percent GDP growth rate over the planning period is unlikely. Therefore, the more conservative bottom-up growth rate of 1.1 percent, which is based on FAA TAF growth rates for based aircraft, was chosen as the preferred forecast. Based aircraft at Newport Municipal Airport are projected to increase from 24 in 2017 to 29 by 2035.

The results from the three general aviation operations projection methodologies developed in this forecast are compared in the graphs below. The bottom-up methodology produced an average annual growth rate of 1.1 percent while the top-down methodology based on FAA Hours Flown projections produced an average annual growth rate of 0.9 percent. The alternative top-down methodology based on historical GDP growth produced an average annual growth rate of 1.6 percent. The top-down growth rate of 0.9 percent was chosen as the preferred growth rate since it is based on FAA national average growth forecasted for hours flown. Annual general aviation aircraft operations² at Newport Municipal Airport are projected to increase from 16,000 to 19,140 by 2035.

² Includes air taxi and commuter operations



Source: FAA TAF, Aviation analysis, ONP 2017 airport master plan, * indicates preferred growth rate



NEWPORT MUNICIPAL AIRPORT ECONOMIC IMPACT UPDATE

Annual economic impacts for 97 study airports were estimated as part of ODA’s economic impact research. Total annual economic impacts for the Airport are attributed to one or more of the following four economic activity centers: airport management, airport tenants, average annual capital investment, and spending by visitors who arrive on general aviation aircraft.

This study uses three primary measures to express both statewide and airport-specific annual economic impacts:

- » Employment
- » Annual Payroll
- » Sales/Output (or total annual economic activity)

Direct Impacts - Newport Municipal Airport is owned and operated by the City of Newport. General aviation operations at the Airport accounted for approximately 7,373 visitors who arrived in the area via aircraft. The direct employment, payroll, and sales/output impacts relate to the Airport’s tenants were derived from survey data. Visitor impacts were calculated using airport-specific expenditure estimates. Construction expenditures are based on FAA Airport Improvement Records. The total combined direct output stemming from all on-airport aviation-related tenants, capital improvements and visitor-related expenditures was estimated at \$11.5 million. On-airport tenants and visitors accounted for nearly 101 direct jobs with an estimated direct payroll of \$7.1 million.

NEWPORT MUNICIPAL AIRPORT

	Direct	Indirect/Induced	Total
Employment			
Tenant	67.0	97.7	164.7
GA Visitor	10.1	4.2	14.3
CIP	23.7	24.9	48.5
Employment Total	100.8	126.8	227.5
Payroll			
Tenant	\$5,433,000	\$4,014,944	\$9,447,944
GA Visitor	\$341,112	\$267,884	\$608,995
CIP	\$1,293,921	\$966,458	\$2,260,379
Payroll Total	\$7,068,033	\$5,249,285	\$12,317,318
Sales/Output			
Tenant	\$8,007,000	\$6,442,567	\$14,449,567
GA Visitor	\$499,981	\$348,235	\$848,216
CIP	\$2,960,100	\$2,345,604	\$5,305,704
Sales/Output Total	\$11,467,081	\$9,136,406	\$20,603,487

Source: Mead and Hunt, EDR Group, Jviation, IMPLAN econometric package

Multiplier Impacts - Direct on-airport tenant and general aviation visitor impacts also create multiplier impacts throughout Oregon. These benefits are made up of indirect and induced impacts calculated with IMPLAN multipliers. Induced impacts result from employees on the airports and in the hospitality sector off-airport spending their earnings in Oregon while indirect impacts result from on-airport businesses and hospitality sector businesses spending for goods and services in Oregon. The table above presents the Airport's direct, indirect/induced, and total economic impacts for sales/output, payroll, and employment as they relate to all on-airport tenants and all general aviation visitors.

Total Impacts - The total output (including direct and multiplier impacts) stemming from all on-airport tenants, construction and all general aviation visitors to Newport Municipal Airport was approximately \$20.6 million. Total full-time employment related to all tenants and general aviation visitors, including all multiplier impacts is approximately 228 jobs. A total annual payroll associated with these jobs is estimated at \$12.3 million.



MUNICIPALITIES NEAR NEWPORT MUNICIPAL AIRPORT WITH LAND USE CONTROLS

Having land uses adjacent to airports that are compatible with aircraft operations is imperative from a safety standpoint. Airports that accept state and/or federal grants are obligated to take steps to promote compatible land use and activities in the environs of their airport. For the OAP analysis, airports and their immediate or adjacent municipalities in the environs of the airport were identified. Analysis of each airport’s airspace were compared to local jurisdiction boundaries on Google Earth. If a jurisdiction was entirely or partly under the airport’s airspace local zoning ordinances were reviewed. County land use ordinances related to airports and height restrictions were also analyzed.

Research was undertaken for municipalities identified during the OAP to determine if the municipalities are taking steps to promote compatible land use and protect the operating environments for airports. Municipalities near Oregon airports were investigated to determine the following key land uses controls:

- » **Has the municipality adopted land use zoning controls?**
- » **Does the municipality have an airport-specific overlay zone or district?**
- » **Does the municipality have a land use map that shows the location of the airport?**
- » **Has the municipality adopted some type of height zoning?**

The following table shows municipalities near Newport Municipal Airport and summarizes the status of land use controls for each. Municipalities and airports throughout Oregon should work together to help ensure airports are protected from incompatible land uses and from the encroachment of obstacles that pose a height hazard to safe airport operations.

LAND USE CONTROL SUMMARY FOR NEWPORT MUNICIPAL AIRPORT

Type of Control	Jurisdictions Impacting Airport	
	City of Newport	Lincoln County
Airport Zone	Yes	No
Adopted Height Zoning Restrictions	Yes	Yes
RPZ Protection	No	Yes
Airport Safety Overlay Zone	Yes	Yes

Source: Angelo Planning Group, Aviation



AIRPORT REPORT CARD AND RECOMMENDATIONS

This section provides information on ODA facility/service objectives associated with a Category II airport in the OAP. The “report card” shows Newport Municipal Airport’s ability to meet its objectives. If the Airport does not meet an objective, an estimated cost to enable the Airport to meet the objective was developed. The report card for Newport Municipal Airport, developed as part of the OAP, is shown below. Only one deficiency, MITL Taxiway Lighting, was identified as necessary for improving the Airport to meet all the facility objectives. Total costs to address OAP deficiencies are estimated at \$2.7 million.

Category II Performance Criteria		ONP	Newport Municipal Airport	Newport
Facilities	Basic Criteria	Actual	Action Needed to Meet Criteria	Estimated Cost
Airside Facilities				
FAA – ARC	C-II		B-II Improve ARC	
NPIAS	Yes		Yes	
Based Aircraft	≥10 (NPIAS Standard)		24	
Runway Orientation	95% wind coverage (combined primary/secondary rwy)		Yes	
Runway Length	5,000 feet		5,398	\$ -
Runway Width	75 or 100 feet		100	\$ -
Runway Pavement Type	Bituminous, Concrete		Bituminous	
Runway Pavement Strength	Varies by Airport* (≥30,000 lbs.)		75,000	\$ -
Runway Pavement PCI	60		79	\$ -
Taxiways	Full Parallel		Partial Parallel*	\$ -
Approach Type	Precision		Precision	\$ -
Visual Approach Aids	One Runway End		PAPI, REIL	
Instrument Approach Aids	Not an Objective		MALS/R	
Runway Lighting	MIRL/HIRL/ALS		HIRL	
Taxiway Lighting	MITL/HITL		Reflectors Install MITL/HITL	\$ 2,700,000
General Facilities				
Rotating Beacon	Yes		Yes	\$ -
Lighted Wind Indicator	Yes		Wind Cone, Lighted Wind Cone	\$ -
Weather Reporting	AWOS/ASOS		AWOS	\$ -
Hangared Aircraft Storage	75% of Based Aircraft		100%	\$ -
Apron Parking/Storage	75% of Daily Transient		75%	\$ -
Terminal Building	Yes		Yes	\$ -
Auto Parking Spaces	Moderate		20	\$ -
Fencing	Perimeter; controlled access		Entire airport perimeter with controlled access	\$ -
Cargo	Designated Apron Area		Designated area on apron	\$ -
Deicing Facility	Not an Objective		Yes	
Services				
Fuel	100 LL (24-hour self-service) Jet A		Yes	\$ -
FBO	Full Service (normal business hours)		Yes	
Ground Transportation	Offsite Rental Car, Taxi, or Other		Onsite rental car, offsite rental car, Uber/taxi, courtesy car	
Food Service	Vending		No Provide vending	
Restrooms	Yes		Yes Provide restrooms	
Pilot Lounge	Yes w/ Weather Reporting Station		Yes Provide pilot lounge w/weather	
Snow Removal	Yes		No Provide snow removal	Exempt
Telephone	Yes		Yes Provide telephone	
Total				\$ 2,700,000

Source: Aviation, Century West, Marr Arnold Planning

OTHER IDENTIFIED FACILITY IMPROVEMENT COSTS

Projects identified in the deficiencies analysis from the OAP represent a portion of the total development and maintenance costs that Oregon airports could require in the near term. In order to have a better picture of total investment needs for Oregon’s airport system, it is important to also consider projects identified in each airport’s current Statewide Capital Improvement Program (SCIP) and in Oregon’s most recent Statewide Pavement Management Plan (PMP).

SCIP - Current SCIPs were reviewed to provide ODA with a general understanding of what projects are already being considered on the local level that would address deficiencies noted in the OAP. A review was performed to ensure project costs were not duplicated between the OAP and current SCIP projects for each airport. Analysis of 2018 SCIP data indicates that over \$4.2 million in improvements for Newport Municipal Airport are identified in the SCIP over the next five to ten years. This estimate does not include transfers or PMP funds.

ODA SCIP Improvements (ONP)	Costs
Storm Pipe Rehabilitation Design	\$166,667
Obstruction Removal: Environmental Assessment	\$166,667
Storm Pipe Rehabilitation Construction	\$2,477,778
Remove Obstructions	\$601,111
Install AWOS	\$488,889
Runway/Taxiway Geometry Project: Phase I - Design	\$311,111
Total	\$4,212,223

Source: ODA SCIP 2018, Aviation analysis

PMP - ODA’s Pavement Maintenance Program (PMP) identifies maintenance, repair, and rehabilitation projects needed to sustain functional pavements at Oregon airports. The PMP program provides some level of pavement maintenance for all paved airports across the state. For NPIAS airports receiving federal monies, this work assists the airports in meeting their grant assurances. Projects in the pavement management plan for Newport Municipal Airport are estimated at more than \$262,000 between 2018 and 2023.

Cost Summary - The OAP v6.0 summarized the Airport’s development needs over the next five to ten years. Costs to improve and maintain the Airport over that time frame consider not only projects identified by the OAP, but also projects from ODA’s Pavement Management Plan and the Airport’s own locally generated capital improvement plan reported to ODA (SCIP). These three sources indicate an estimated \$7.2 million will be needed to maintain and improve the Airport over the next ten years.

As ODA’s Statewide Economic Impact Study has shown, on an annual basis the Newport Municipal Airport supports an estimated \$20.6 million in economic benefit. The Airport’s annual economic impact far exceeds its annual financial need for maintenance and improvement. ODA’s economic impact analysis shows the Airport is well worth the investment.



This page is intentionally blank.