

Project Advisory Committee Meeting #4

February 17, 2022





Agenda

- Project Overview
- Progress to Date
- Project Recommendations and Other Considerations
 - Performance Measures
 - Value Rating Variables/Facility and Service Objectives
- Airport Economic Impact Study
- Airport Replacement Values
- Final Individual Airport Reports
- Next Steps





Project Overview



Project Team



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Ekay Economic Consultants

Economic Impact



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Project Planner

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Quadrex (Dave Byers)

Airport Regional Value (ARV)





Public Consultation







Project Purpose

NAHSP

- Analyze system needs
- Identify policy/other recommendations

AEIS

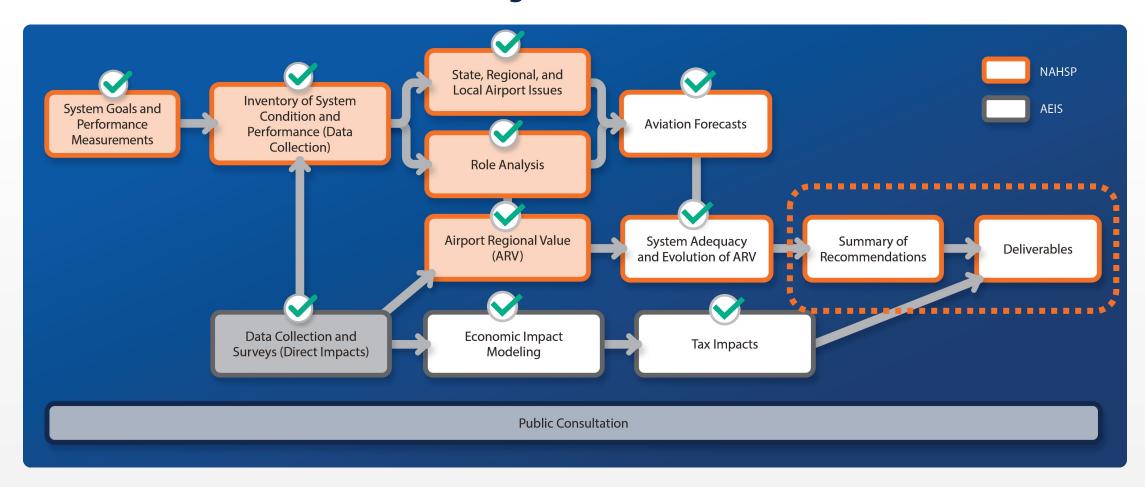
 Determine airport contributions – quantitative and qualitative

Provides NDOT and Nevada airports with complete portrayal of benefits derived and importance of airport investment to meet identified needs





NAHSP & AEIS Project Process







Progress to Date



Since We Last Met, We've:

- Finalized forecasts
- Finalized existing system performance and future performance
- Completed the Airport Economic Impact Study
- Continued to produce Individual Airport Reports

And today, we're asking for your input on preliminary NAHSP recommendations and considerations!





NAHSP Technical Report

Chapter 1: System Goals and Performance Measures

Chapter 2: Inventory of System Conditions

Chapter 3: Airport Roles and Classification Analysis

Chapter 4: State, Regional, and Local Airport Issues

Chapter 5: Airport Regional Value Methodology

Chapter 6: Forecast of Aviation Demand

Chapter 7: Existing and Future System Adequacy

Chapter 8: Summary of Recommendations and System Costs

Chapter 9: Airport Economic Impact Study (AEIS)



We're making great progress. Helps us get to the finish line!





Project Recommendations and Other Considerations



A Few Notes Before We Dive In....

Two types of recommendations are identified:

1. Project Recommendations

- Developed from project metrics that tie to a physical project/improvement
- Identified by the gap between existing system performance and future system performance targets
- Have a cost estimate associated

2. Considerations

- Developed from project metrics that aren't tied to a physical project/improvement
- Not developed at the airport level
- Informed by results of the system performance analysis and state, regional, and local issues
- Offer NDOT and airports action items that can be pursued
- Does not generate cost estimates





A Few Notes Before We Dive In....

- Duplicate project recommendations occur when a facility improvement is tied to both a performance measure (PM) and a value rating variable (VRV) or facility and service objective (FSO)
- Proposed recommendations are presented by goal, then by VRV/FSO category
- Recommendations are not presented in order of priority or importance
- These recommendations are meant to be informative, so please....

Don't be shy and share your thoughts!





Performance Measure Recommendations



Goal 1: Safety and Security

Performance Measure	Recommendation	Project OR Consideration
Percent of airports meeting applicable FAA design and	Resolve non-standard designs or non-compliance	Project
safety standards		
Percent of state land area and population within 30	AWOS/ASOS for Primary through General airports and Unicom for	Project
minutes of airports with weather reporting capabilities	Access airports	
Percent of state land area and population within 30	Pave any unpaved NPIAS airport	Project
minutes of an airport with a paved runway		
Percent of airports that have a designated helicopter	Establish a designated landing area	Project
landing location		
Percent of airports that have broadband service	Establish a broadband connection	Project





Goal 2: Preserve Infrastructure

Performance Measure	Recommendation	Project OR Consideration
Percent of airports that have coordinated	NDOT and airports work with local land use authority to establish control	Consideration
with local land use authority to adopt	NDOT provide support/encouragement of airport compatible development	
appropriate land use controls	NDOT check in with airports during airport 5010 data updates	
	NDOT could develop a land use/zoning template to be used by airports (or develop	
	other guides/resources)	
Percent of airports that have an	ALP for NPIAS airports	Project
approved airport planning document that	Airport Diagram (at minimum) for non-NPIAS	
was completed after 2013		
Percent of airports' primary runway	Pavement condition improvements	Project
meeting pavement condition index (PCI)		
of acceptable or rated Good (G)		
Percent of airports that are under a	NDOT work with state officials to limit future restricted airspace (to include Special Use	Consideration
Military Operating Area (MOA) in the	Airspace [SUAs] and MOAs)	
national airspace system	NDOT and airports continue to communicate with military installations on	
	location/impact of restricted airspace	
	NDOT can educate and inform system airports and help them work with local decision	
	makers about preventing future restricted airspace	
	NDOT can develop draft letter template for airports to send to local officials re:	
	importance of local airports	



Goal 3: Transform Economies

Performance Measure	Recommendation	Project OR Consideration
Percent of airports with active	NDOT can produce literature or host webinar for airports so they can better	Consideration
development partnerships with	understand value of these relationships	
chambers of commerce, tourism	NDOT can provide airports with a list of potential area agencies to outreach with	
bureaus, service organizations,	NDOT can develop a letter/email template that airports could use to make initial	
industries, governments, military	contact with relevant agencies	
official, and recreational user groups		
Percent of airports with expansion /	Airports should identify the level of expansion/development potential	Consideration
development potential	NDOT can support, promote, and encourage airport compatible development	
Percent of airports that can support	Lengthen runway, improve approach, install AWOS, and/or acquire fuel equipment	Project
regular business aircraft activity	(whichever is needed so that the airport meets all criteria for supporting this	
(runway length, approach, weather,	activity)	
fuel)		
Percent of airports with tour operators,	NDOT and airports can continue working with, and supporting, the helicopter tour	Consideration
specifically utilizing helicopters	companies currently at system airports	





Goal 4: Foster Sustainability

Performance Measure	Recommendation	Project OR Consideration
Percent of airports that have established	NDOT can encourage airports to participate in public outreach activities	Consideration
public outreach protocols or programs that	NDOT and airports can continue sharing positive news and spreading awareness to the public about	
include efforts with the local community, as	the importance of local airports	
well as local, state, regional and federal governmental representatives		
Percent of airports with or pursuing an	NDOT to continue consulting with NV Dept. of Conservation and Natural Resources to achieve the	Consideration
alternative energy source	GHG reduction outlined in NV Bill 254 (Still a Bill, may go into effect in 2023)	
	NDOT can participate in industry working groups and industry organizations to work on reducing	
	environmental footprint of the aviation industry	
	NDOT can educate airports on actions they can take to reduce their airport's environmental footprint	
Percent of airports with an airport manager to	NDOT work with airport sponsors during airport 5010 data updates to identify strategies for	Consideration
operate and	establishing an airport manager role	
maintain the airport	NDOT can educate airports on the importance of an airport manager and the value of different levels	
	of management (doesn't need to be full-time)	
	NDOT can work with NVAA to play a more active role in educating airports about basic airport	
	management fundamentals	
Percent of airports that have received federal	NDOT can continue participating in annual ACIP meetings	Consideration
and/or state funding within the last five years	NDOT can collect and review ACIPs and provide airports with helpful feedback	
	NDOT can coordinate with elected officials to educate them on the value of local and state funding	
	matches	
	NDOT can work with non-NPIAS airports so they better understand state or local grant programs that	
	may be available to them	



Goal 5: Connect Communities

Performance Measure	Recommendation	Recommendation Type
Percent of airports capable of supporting aerial firefighting operations	Runway extension and/or fuel equipment installation so that airports meet all aerial firefighting criteria	Project
Percent of airports capable of supporting emergency (medical/police) operations	Weather, Jet A fuel, and/or establish designated helicopter landing area so that airports meet all emergency operations criteria	Project
Population within 30 minutes of any public-use airport	NDOT can use findings from the analysis showing the service area impacts due to expired BLM leases (potential closures) to rally support for the continued operation of these airports (particularly those in remote communities) and to promote community support for keeping these facilities operational	Consideration
Percent of airports providing access to remote communities	NDOT can continue to support airports that provide access to remote communities and encourage those airports to participate in local or regional planning studies	Consideration





Goal 6: Optimize Mobility

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Performance Measure	Recommendation	Recommendation Type
Percent of airports that are adequately	No recommendations developed because all applicable airports are meeting this PM	Consideration
accessible in terms of		
signage and access road quality		
Percent of airports that provide off-airport	Acquire courtesy car	Project
transportation (e.g., courtesy car,		
transportation network carrier, bus, rental		
car, other)		
Percent of airports that are involved in	NDOT could develop and post UAS awareness and safety posters at system airports	Consideration
UAS/UAV (training, businesses, facilities, or	NDOT can participate in working groups and other FAA webinars about UAS proliferation	
safety protocols)	NDOT can identify industries in the state that use/rely on UAS and determine if there is anything	
	airports or NDOT could do to support this growing industry	
Emerging Technologies – as a continuation	NDOT can educate airports on the impacts of other emerging technologies, specifically the	Consideration
of the UAS/UAV involvement PM	electrification of ground transportation and aircraft, as well as development in advanced air	
	mobility (AAM)	
	NDOT can inform airports about opportunities that may arise related to emerging technologies,	
	including informational webinars, published research, grant opportunities, and other	
	Airports can seek out opportunities for installing electric ground vehicle chargers at their airports,	
	as well as consider future electric aircraft infrastructure needs during future facility planning	
	NDOT and airports work to address unleaded and sustainable aviation fuel (SAF) availability	





Other Potential Recommendations

Topic	Context
Operations Counting Program	ADS-B counters have been installed at approximately a dozen airports. A more uniform solution for operations counting is required, however, it relates back to concerns with widespread lack of broadband connectivity. NDOT can continue working to identify other operations counting programs and continue working with NV Governor's Office on the proliferation of broadband service across the state.
Defunded Runways	FAA practice of no longer funding non-primary runways is impactful to many airports. Crosswind runways for Austin, Eureka, and Fallon were removed from their ALPs. NDOT will continue working with and encouraging airports impacted by this issue to look for local or state funding opportunities to maintain their non-primary runway(s).
Future Airports	Nye County is currently undergoing a NPIAS feasibility study for Calvada Meadows in Pahrump and has requested site selection procedures for a new airport. There is also potential for the proposed Southern Nevada Supplemental Airport (SNSA) to be developed. NDOT can continue working with stakeholder groups and other agencies to identify the most appropriate solution for the location of new and proposed airports.





Estimated Project Costs for NAHSP Goals







Estimated Project Costs for NAHSP Goals

Costliest Projects: Pavement!

Project	Cost
Pave an unpaved runway at a NPIAS airport	\$7.7 million
Primary runway pavement maintenance at 5 airports (NPIAS and non-NPIAS)	\$7.3 million
Runway extension at one NPIAS airport	\$1.6 million
Total Pavement	\$16.6 million

Other Significant PM Costs:

Project	Cost
Establish designated helicopter landing locations (28 airports)	\$3.5 million
Acquire 24/7 Jet A fuel (3 airports)	\$3.3 million
Weather reporting equipment (AWOS/ASOS or Automated Unicom) (19 airports)	\$3.2 million

Least Costly Projects: Planning

Project	Cost
Airport Layout Plans (3 airports)	\$1.2 million
Airport Diagrams (4 airports)	\$40,000





BREAK



Value Rating Variable/Facility and Service Objective Recommendations



Regional Significance

VRV/FSO	Recommendation	Recommendation Type
Longest Runway (duplicates)	Extend runway appropriate to role	Project
T-hangar Ratio	Construct hangars to achieve adequate T-hangar ratio	Project
Fuel Availability	Acquire fuel pump and CC reader (if applicable to airport role)	Project
(duplicates)		
Instrument Approach	Improve approach as appropriate to role	Project
(duplicates)		
Airport Ownership	For airports leased by BLM and privately owned airports: NDOT should continue coordinating with BLM and private owners to determine their commitment to owning/operating these facilities so in the event they no longer want to operate, NDOT can evaluate the potential transfer of the facility to their ownership NDOT can assist with the transfer of these airports to local public sponsors in the event that an ownership change is needed.	Consideration
Airport Uses	NDOT can use results of the NAHSP to determine if there are gaps in coverage of critical services and work with airports to provide those services NDOT can check in with airports during airport 5010 data updates to determine if they are interested in attracting certain users	Consideration
Nearest Airport	NDOT can continue to monitor system needs as it relates to airport location and distance between airports As new facilities are proposed and/or development on SNSA continues, NDOT should consider where these new facilities are proposed to be located relative to other facilities and plan for any overlap in services	Consideration
Aircraft Maintenance	NDOT can continue monitoring the number and location of maintenance facilities	Consideration

NDOT can continue providing non-financial support to airports as needed for airports that are interested in retaining or



Airport Facilities

VRV/FSO	Recommendation	Recommendation Type
FAA Design Standards (duplicates)	Depends on the design standard deficiency; recommendation is to resolve deficiency	Project
Runway Surface Type/Condition (duplicates)	Improve runway to recommended surface type and condition	Project
Runway Lighting	Install appropriate runway lighting per NAHSP role	Project
Taxiways	Construct appropriate taxiway type per NAHSP role	Project
Visual Aids	Install appropriate visual aids per NAHSP role	Project
Weather Reporting (duplicates)	Install appropriate weather reporting equipment per NAHSP role	Project
GA Terminal	Construct appropriate GA terminal facilities per NAHSP role	Project
Utilities	Install the appropriate utility connections per NAHSP role	Project
Security/Wildlife Fencing	Assist facilities in identifying fencing needs (security or wildlife) and identify funding sources	Consideration
Communications Connectivity	Install public phone and secure broadband connection	Project
(duplicates – broadband only)		





(duplicate)

Airport Protection

PM section

VRV/FSO	Recommendation	Recommendation Type
Height Hazard (duplicate)	Refer readers to section that includes land use compatibility/zoning recommendations made in the PM section	Consideration
Obstruction Mitigation	NDOT and airports can coordinate with local landowners to mitigate obstructions occurring off airport	Consideration
Airspace Restrictions	NDOT should continue to coordinate w/ the FAA and other stakeholders re: new airspace restrictions that may occur in the future so that proactive steps can be taken and communication with impacted airports is undertaken. Also refer readers to the Military Operating Area PM for additional information	Consideration
Runway Protection Zone	If RPZs are on private property, an airport should actively engage with property owners and use tools such as right of first refusal so that the airport is better positioned to acquire that property if it goes on the market Airports should strive for open communication with neighboring landowners to mitigate RPZ concerns NDOT can support these efforts by providing general support to airports, such as drafting template letters to send to property owners or assisting in the communication/coordination process	Consideration
Land Use Compatibility	Refer readers to section that includes land use compatibility/zoning recommendations made in the	Consideration



Airport Access

VRV/FSO	Recommendation	Recommendation Type
Ground Transportation	Acquire Courtesy Car	Project
(duplicate – courtesy car only)	Establish rental car or ride share connection	
Community Access	NDOT and airport can work together to establish engagement strategies so that the airport can attract more community users and educate them on the benefits of their local airport	Consideration
Regional Access	Consideration recommendations (evaluation based on distance from airport to principal arterial)	Consideration
Local Access	Airports should work with NDOT Aviation Program and the broader NDOT agency to determine options for roadway improvements to their airport's access road	Consideration





Airport Expandability

VRV/FSO	Recommendation	Recommendation Type
Total Acreage/Based Aircraft Ratio	Airports should work with NDOT and local planning organizations to determine potential for expansion NDOT can continue coordinating with airports during airport 5010 data updates to better understand the airport's expansion desires/needs	Consideration
Airfield and Aeronautical Property (duplicate)	Refer readers to the Expansion/Development Potential PM recommendations	Consideration
Surplus Property	Airports should continue conducting facility planning and estimate future needs to identify if excess property is best suited for aeronautical or non-aeronautical purposes NDOT should continue coordinating with airports during airport 5010 data updates	Consideration
Airfield Expandability	Airport sponsors should continue conducting future facility planning efforts and routinely coordinate with NDOT on these needs	Consideration





Community Commitment

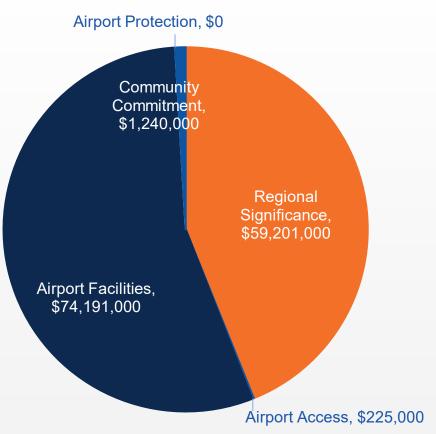
VRV/FSO	Recommendation	Recommendation Type
Last ALP Update (duplicate)	Complete an ALP	Project
Airport Manager (duplicate)	Refer reader to the Airport Manager PM recommendation	Project
	Airports are encouraged to coordinate with NDOT routinely to identify if there are any grants or other funding opportunities that airports could seek out	Consideration
Goodwill (duplicate)	Refer reader to the Public Outreach Protocols PM recommendation	Consideration





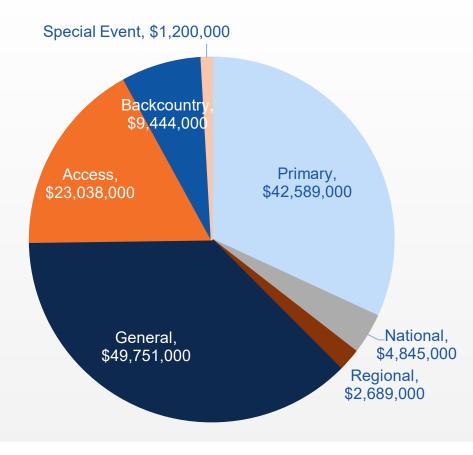
Estimated Project Costs by VRV/FSO Category

VRV/FSO Costs by Category





VRV/FSO Costs by Airport Role







Estimated Project Costs for NAHSP Goals

Costliest Projects: Pavement!

Project	Cost
Runway Extensions (9 airports)	\$19.2 million
Runway Pavement Maintenance (10 airports)	\$13.4 million
Pave an unpaved runway at a NPIAS airport	\$7.7 million
TOTAL Pavement	\$40.3 million

Other Significant PM Costs:

Project	Cost
Approach Improvements* (14 airports)	\$18.9 million
Taxiway Improvements** (18 airports)	\$16.3 million
Establish ATCT (2 airports)	\$7.0 million

^{*}Includes improvements from visual to non-precision and from non-precision to precision

Least Costly Projects: NAVAIDS

Project	Cost
Runway lighting improvements (13 airports)	\$2.7 million
Other NAVAIDS (10 airports)	\$560,000



^{**} Includes full parallel, partial parallel, and turnarounds



Airport Economic Impact Study



Economic Impact Terminology Review

Employment	Labor Income	Output
Represents the total number of people employed by a business, regardless of part- or full-time status. This also includes jobs created or supported in the economy to support the business' economic activity.	All forms of employment income, including employee compensation (wages and benefits including health care insurance payments, retirement contributions, etc.) and proprietor income.	Represents the value of industry production and economic activity associated with the operation of the airport, including airport administration and management, sales of goods and services by airport tenants, budget expenditures by agencies located on airports, capital expenditures, and visitor spending.





Economic Impact Methodology Review

Base Year:

- Impacts for Harry Reid International (LAS), Henderson Executive (HND), and North Las Vegas (VGT) were derived from the Oxford Economics study published in 2019.
- Other airport impacts were derived from collecting a variety of data and modeling that data using IMPLAN (Impact Analysis for Planning). IMPLAN is an industry-accepted statistical modeling software.
- Data collected included:
 - Airport administration
 - Tenant information

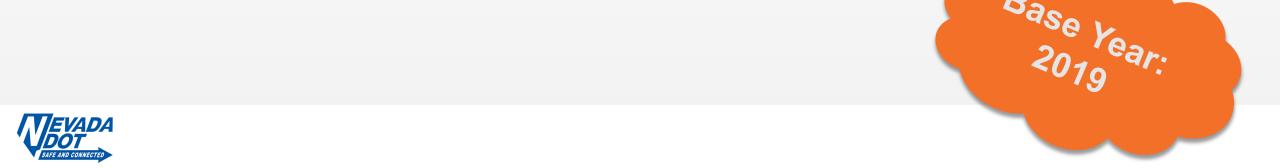
- Capital improvements
- Commercial service and GA visitor impacts





Nevada Airports' 2019 Contribution to the State Economy

Measure		Total NV Aviation Impacts	% of Economy Supported by Aviation
Employment	1,857,766	285,521	15.4%
Labor Income	\$101,420, 997,685	\$12,205,815,552	12.0%
Output	\$298,932,168,595	\$40,049,529,717	13.4%





Tax Impacts

Base Year: 2019

- A variety of aviation activities generate tax revenues includ ing:
 - Sales tax on visitor spending
 - Income tax on airport and tenant payroll
 - Property taxes
 - Fuel taxes

Tax Type	Tax Impact	
Local	\$119,568,819	
State	\$251,949,175	
Federal	\$381,279,660	
LAS, HND, VGT	\$5,900,000,000	
Total	\$6,652,797,654	





Special Events Considered in the AEIS

Burning ManHigh Sierra Fly-inReno Air RacesBlack Rock City Airport (88NV)Dead Cow AirstripReno-Stead Airport (RTS)







Source: AOPA, Dave Hirschman https://www.aopa.org/news-and-media/all-news/2015/september/10/burning-man-airport-appears-then-disappears-without-a-trace

Source: High Sierra Fly-in Gallery, https://www.highsierraflyin.com/gallery

Source: STIHL National Championship Air Races, STOL Drag Race Gallery, https://airrace.org/sights-and-sounds/racing-class-info/stol-class-gallery/





Airport Replacement Values



Airport Replacement Value Analysis

- Only developed for NPIAS airports (excluding LAS & RNO)
- Included analysis of three asset categories:
 - Land
 - Pavement
 - Buildings
- Land area, pavement square footage, and building square footage data was collected
- Unit costs for land, pavement, and building costs were identified
- Asset information and unit costs were calculated to identify the airport's estimated replacement value

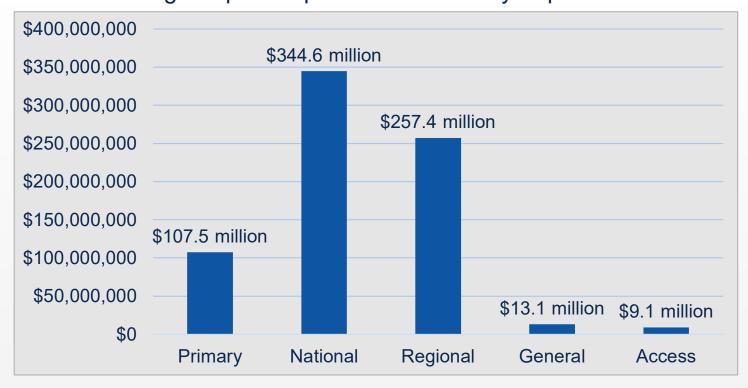




Airport Replacement Value Results*











Final Individual Airport Reports



NPIAS Airport Layout



AIRPORT ECONOMIC IMPACT STUDY

The Nevada Aviation Economic Impact Study (AEIS) evaluated the economic impacts of all system airports in Nevada. The components that comprise the total economic impact of Nevada's aviation system and the economic impact of WMC are presented below. Visit the NDOT website to learn more about the methodology used to determine the statewide and airport-specific economic impacts.

Winnemucca Municipal Airport TOTAL EMPLOYMENT
92

LABOR INCOME
\$5,474,500
STATEWIDE

TOTAL OUTPUT \$16,179,840

Statewide

285,521 JOBS

\$12.2 BILLION

\$40.0 BILLION

AIRPORT OVERVIEW

Winnemucca Municipal Airport (WMC) is a general aviation (GA) airport located approximately six miles southwest of the City of Winnemucca in Humboldt County. The airport is located just off I-80, offering quick access to much of the rest of Northern Nevada. WMC has two paved runways that are 4,800 and 7,000 feet in length, along with two helipads, multiple hangars, airport parking pads, and an industrial park located adjacent to WMC. There are 10 aircraft based at WMC with approximately 6,500 operations annually. These operations include recreational flights, air taxi operations, and cargo flights. Additionally, WMC is a base for the Bureau of Land Management (BLM), with many operations including Single Engine Air Tanker (SEAT), smoke jumpers, and air attacks. The development of a nearby lithium mine and salmon farm will contribute to the fast-growing Winnemucca community.

AIRPORT REPLACEMENT VALUE

Airports generate economic impacts from their operation, but also have tremendous value as a physical asset. Airports are comprised of large tracts of land, sometimes miles of pavement, and numerous buildings that have substantial value, especially in terms of replacement. Replacement value was estimated based on existing facilities and current costs.

\$23,986,000

WMC DEVELOPMENT NEEDS



Airport Estimated Development Costs were sourced from each Airport's Capital Improvement Plan (ACIP) that were provided during the development of this project. ACIPs are developed by airport sponsors and consultants to plan for capital improvement needs over the planning horizon.



WINNEMUCCA MUNICIPAL AIRPORT WMC

The 2022 Nevada Airport and Heliport System Plan (NAHSP) and Airport Economic Impact Study (AEIS) are critical documents to the Nevada Department of Transportation (NDOT) Aviation Program. Combined, these are used to provide guidance and direction on how to maintain the aviation system, monitor performance, and invest in the future.

NAHSP Process:

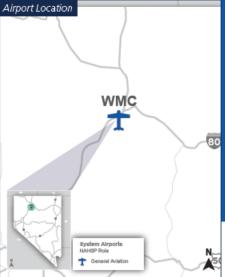
- · Monitor aviation system performance
- Provide guidance and direction to maintain the aviation system
- Provide justification for continued investment in the aviation system

NAHSP Roles:

- Seven functional classifications used in the NAHSP
- Mix of Federal Aviation Administration (FAA) National Plan of Integration Airport Systems (NPIAS) and unique NAHSP roles
- WMC is classified by the NAHSP as a General Airport and in the NPIAS as a Basic Airport

General: Serve a variety of general aviation (GA) activities, support local economies, and provide basic aeronautical needs.





AIRPORT REGIONAL VALUE

The Airport Regional Value (ARV) measures the economic, social, environmental, emergency, and facility metrics associated with each airport. ARV results can inform airports

about the impact and benefit of specific capital improvements and demonstrates the tie between airport investment and economic impact. There are three components of ARV: economic impact, replacement value, and value rating variables (VRV). Economic impact and replacement value are featured on the back page of this brochure while the results of the VRV analysis, presented as an Airport Development Report, are presented in the centerfold.





WINNEMUCCA MUNICIPAL AIRPORT

Value Rating Variable

(VRV)

Airport Ownership

Longest Runway

T-Hangar Ratio (THR)

Aircraft Maintenance

Instrument Approach

FAA Design Standards

Runway Surface Type/

Runway Lighting

Weather Reporting

Condition

Taxiways

Visual Aids

GA Terminal

Security/Wildlife

Communications Connectivity

Utilities

Fencing

Runway ARC Category B-II

Based Aircraft

Fuel Availability

Airport Uses Nearest Airport

Category

Regional Significance

Airport Facilities V_{AF}

Associated City					
WINN	EMUCCA				

Classification **GENERAL**

	MC	•
w	wic	

	Category	Value Rating Variable (VRV)	Airport Objective	Current Performance	Score
(8	9	Height Hazard Zoning	Present	Yes	5
	15,	Obstruction Mitigation	15:1 - 18:1	26:1	5
	Airport Protection V _{AP}	Airspace Restrictions	N/A	42 miles	3
-V		Runway Protection Zone	Full desired	Full	5
	, or	Land Use Compatibility	N/A	Less than 1 mile	1
			Airpo	rt Protection V _{AP} Subtotal	19
	SSS	Community Access	N/A	5 miles	3
	953	Local Access	Collector (Minor)	Collector (Minor)	5
7	A A A	Regional Access	N/A	3.2 miles	5
	Airport Access V _{AA}	Ground Transportation Services	Rental or Courtesy Car and Taxi or Ride Share	Courtesy Car and Taxi	3
	٩		A	irport Access V _{AA} Subtotal	16
	-¢	Total Acreage Ratio	N/A	97	5
	벌	Airfield & Aeronautical Property	N/A	4%	5
	Airport Expandability VAE	Surplus Property	N/A	928 acres	5
		Airfield Expandability	N/A	1,116 Feet	5
	ă i		Airport E	xpandability V _{AF} Subtotal	20
	nt V _{CC}	Last ALP Update	< 10 years & After 2013	2020	5
		Airport Management	Part Time or FBO	Full Time	5
	ı ğ	Historical Capital Improvements	≥ \$1.0 Million	\$5.95 Million	5
	muit	Airport Capital Improvement Program (ACIP)	≥ \$1.0 Million	\$7.15 Million	5
	ty Co	Economic Development Partnership	Established Partnership	Yes	5
	Community Commitment V _{cc}	Financial Subsidies	Capital Improvement Subsidy	Capital Improvement Subsidy	3
		Goodwill	N/A	Education Program and Positive News	4
			Community	Commitment V _{cc} Subtotal	32

37 ⁴⁵
2
Regional Significance









Airport



Airport

Access

Total Score Maximum Score



Airport

Expandability



Commitment





Notes: EMS = Ernergency Medical Services, ALP = Airport Layout Plan, MP = Master Plan, FAA = Federal Aviation Administration, ARC = Airport Reference Code, PCI = Pavement Condition Index, PAPIs = Precision Approach Path Indicator, VASIs = Visual Approach Slope Indicator, ALS = Approach Lighting System, REILS = Runway End Identifier Lights, ATCT = Air Traffic Control Tower, AWOS = Automated Weather Observing System, ASOS = Automated Surface Observing Systems, GA = General Aviation

Electricity and Water Available

Public Phone and Cellular

Airport Objective

Accommodate 95% of Small

Jet A or 100LL, Self Service (SS)

Meet FAA Design Standards

Paved and Good, PCI >71

Partial Parallel to Primary

Rotating Beacon and Wind

w/ Credit Card Reader

Aircraft Fleet = 5,510 Feet

N/A

N/A

N/A

N/A

Minor

0.50 - 0.60

Non-Precision

Low-Intensity

AWOS or ASOS

Public Restrooms

Runway

Cone

Partial

(Data/4G)

Current Performance

5

5

5

5

5

3

Public

0.4%

1.5

FireFighting

7,000 Feet

Service (SS)

Minor

B-II

Yes

= 76

Jet A & 100 LL Full

Non-Precision with

Vertical Guidance Regional Significance V_{sc} Subtotal

Asphalt and Good, PCI

Rotating Beacon, Lighted

Wind Cone, and PAPIs

Conference Room, and Pilot Lounge

Electricity, Water, and

Public Phone and Cellular

Airport Facilities V_{Ac} Subtotal

Medium-Intensity

Full Parallel to All

Public Restrooms.

Runways

ASOS

Septic

(Data/4G)

Full

Service (FS) and Self

53 miles



Non-NPIAS Airport Layout



AIRPORT ECONOMIC IMPACT STUDY

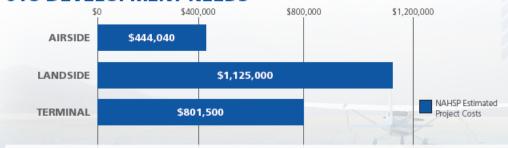
The Nevada Airport Economic Impact Study (AEIS) evaluated the economic impacts of all system airports in Nevada. The components that comprise the total economic impact of Nevada's aviation system and the economic impact of 01U are presented below. Visit the NDOT website to learn more about the methodology used to determine the statewide and airport-specific economic impacts.



AIRPORT OVERVIEW

Duckwater Airport (01U) is a general aviation (GA) airport located six miles southeast of Duckwater in Nye County, over 50 miles from Ely. The airport is located on land owned by the Bureau of Land Management (BLM). 01U consists of two dirt runways approximately 3,000 feet in length. 01U provides critical access to the surrounding community by providing a location for doctors to access the local Duckwater Tribe and by supporting occasional emergency operations and aerial firefighting. The airport also serves as an access point for nearby hot springs and those visiting for local wildlife viewing or game hunting. The airport is located in open range land with sheep, cattle, and wild horses.

01U DEVELOPMENT NEEDS



NAHSP Estimated Project Costs were developed by summing the estimated costs of project recommendations from the NAHSP FSO and PM analysis. Costs were developed as planning level estimates only and do not include the level of detail needed to design projects or prepare grants.



Nevada Aviation: A Vital, Growing Resource



DUCKWATER 01U

The 2022 Nevada Airport and Heliport System Plan (NAHSP) and Airport Economic Impact Study (AEIS) are critical documents to the Nevada Department of Transportation (NDOT) Aviation Program. Combined, these are used to provide guidance and direction on how to maintain the aviation system, monitor performance, and invest in the future.

NAHSP Process:

- Establish goals and project metrics
- Determine existing system performance
- Identify future performance targets
- Outline policy and project recommendations

NAHSP Roles:

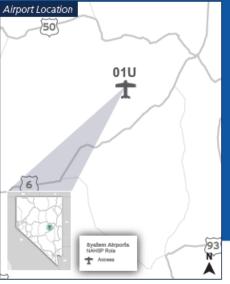
- Seven functional classifications used in the NAHSP
- 01U is an Access airport (not eligible for Federal Aviation Administration [FAA] funding)

Critical Services:

- Emergency Medical Services (EMS) Operations
- Provides Doctor's Access to Tribal Community
- Aerial Firefighting Operations

Access airports: Regularly utilized for a specific reason related to accessing the location such as emergency, medical, or business (e.g. mining, casinos).





FACILITY AND SERVICE OBJECTIVES

Airports not included in the FAA's system were evaluated using a set of Facility and Service Objectives (FSOs). FSOs establish a minimum level of facilities and services recommended based on each airports NAHSP role. FSOs help guide development at an airport level to ensure that each airport has the facilities and services recommended to fulfill their role within the system. The results of this evaluation are presented as an Airport Development Report included in this brochure's centerfold. The Airport Development Report clearly indicates the FSOs that the airport is meeting and not meeting.

DUCKWATER AIRPORT

The Airport Development Report presents a snapshot of NAHSP objectives for the airport and current performance. In areas where the objective is not met, a development project may be recommended, as appropriate, for the airport to achieve the desired objectives" above this table.

		ulis table.			1110
	Category	Facility & Service Objective	Airport Objective	Current Performance	Meets Objective?
9	ance	Longest Runway	Maintain Existing at a Minimum of 3,000 Feet	3400 Feet	Meets
	gnific	T-Hangar Ratio (THR)	> 0.25	0	Meets
	Regional Significance	Fuel Availability	Jet A or 100 LL, Self Service with Credit Card Reader	None	Doesn't Meet
	ez i	Instrument Approach	Visual	Visual	Meets
		FAA Design Standards	Meet FAA Design Standards	No	Doesn't Meet
	Si .	Runway Surface Type/Condition	Non-Paved and Fair, PCI > 56	Dirt and Fair, PCI > 56	Meets
	Airport Facilities	Runway Lighting	Reflectors, Low- intensity Desired	None	Doesn't Meet
	Airport	Taxiways	Turn Arounds	None	Doesn't Meet
		Visual Aids	Wind Cone	None	Doesn't Meet
		Weather Reporting	Automated Unicom	None	Doesn't Meet

Notes: FAA = Federal Aviation Administration, PCI = Pavement Condition Index, GA = General Aviation, ALP = Airport Layout Plan

Associated City

DUCKWATER

FAA Identifier 01U

ACCESS

Category	Facility & Service Objective	Airport Objective	Current Performance	Meets Objective?
	GA Terminal	Public Restrooms Desired	None	Doesn't Meet
Airport Facilities	Utilities	Electricity and Water Available	None	Doesn't Meet
Airport	Security/Wildlife Fencing	None	None	Meets
	Communications Connectivity	Public Phone or Cellular (Data/4G)	None	Doesn't Meet
Airport Access	Ground Transportation Services	Rental or Courtesy Car and Taxi/Ride Share	None	Doesn't Meet
Community	Last ALP Update	< 10 yrs and after 2013 or Airport Diagram	Diagram	Meets





Next Steps



Next Steps

- Finalize Chapter 8. Recommendations
 - Send to NDOT for review
 - Send to PAC for review
 - Address feedback and post to the project website!
- Finalize Chapter 9. AEIS
 - Address PAC feedback
 - Post to the project website
- Finalize all Individual Airport Brochures
 - Send to airports for their final review and feedback
- Draft Statewide Executive Summary Brochure & Presentation





Stay Involved!

- Review and comment on remaining draft deliverables
- Check out Website
- Distribute Blog Posts





Questions?

Thank you for your participation!

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