SUMMARY OF FINDINGS

SYSTEM EVALUATION

Comprehensive analysis revealed adequacies, deficiencies, and overlaps for the current airport system. System performance measures guided the system evaluation process. Each performance measure has a set of quantifiable benchmarks which determine current performance. Results are used to establish targets for future system performance.

OKLAHOMA SYSTEM PERFORMANCE MEASURES

A SYSTEM THAT IS SAFE

A SYSTEM THAT IS **EFFICIENT**

A SYSTEM THAT IS
ACCESSIBLE

A SYSTEM THAT SUPPORTS
THE ECONOMY

A SYSTEM THAT MEETS
USER NEEDS

AIRPORT ROLES AND FACILITY SERVICE OBJECTIVES

Each airport in Oklahoma plays a different role in their community based on the aircraft and customers it serves. Detailed investigation scored and ranked each airport to establish its system role as either a National Business, Regional Business, General, or Community airport. Each role category has facility and service objectives considered desirable for meeting user needs. Each airport's report card shows projects needed to meet system plan objectives. Report cards also reflect additional investment to address airport identified projects.

AIRPORTS IN OKLAHOMA ARE ASSIGNED TO ONE OF FOUR STATE ROLES:













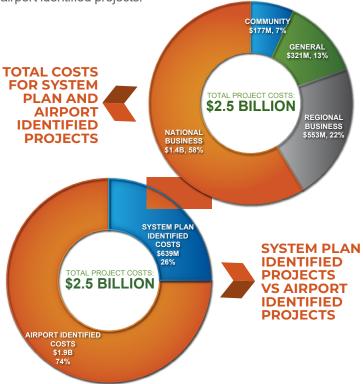
CONCLUSIONS

ESTIMATED COSTS

The Oklahoma airport system currently functions at a relatively high level, but if airports are able to meet their individual facility and service objectives, that performance could improve.

The final step in the system plan was to develop planning level cost estimates associated with improving system airports to meet their facility and service objectives. In addition, information was collected from study airports to identify other projects they plan to implement. Combining system plan identified projects with airport identified projects provides a more holistic understanding of the system's financial needs in the next 20 years.

Costs were summarized by airport role and allocated to show the costs needed to implement system plan identified projects and airport identified projects.



POTENTIAL FUNDING GAP

Considering all investment needs, an average of \$125.1 million would be needed in each of the next 20 years to fully address the identified costs. Review of historic and anticipated FAA, state, and local funding sources shows an average of \$85.8 million in funding could be available if current funding levels continue. This leaves a potential annual funding gap of \$39.2 million; considering this gap, it is important that available funding be strategically invested. It is also important to note that while the airports have an annual investment need of \$125.1 million, the airports return an estimated \$10.6 billion to the state's economy each year.

The system plan provides important information to OAC, helping to direct available funding to airport projects most essential to meeting the state's transportation needs and economic objectives.

FOR MORE INFORMATION CONTACT

Oklahoma Aeronautics Commission
110 N Robinson Ave. Suite 200 | Oklahoma City, OK 73102
405.604.6900 | oac.ok.gov





In late 2020, the Oklahoma Aeronautics Commission (OAC) undertook a comprehensive update to its State Airport System Plan. The plan was completed in 2022. This report summarizes major statewide findings, but it focuses primarily on the findings and recommendations from the plan for Enid Woodring Regional Airport.

PREPARED BY

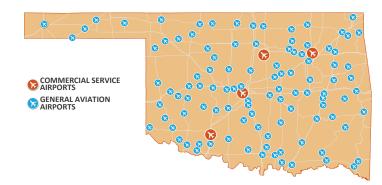
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OKLAHOMA AIRPORT SYSTEM PLAN

The update to the Oklahoma Airport System Plan followed Federal Aviation Administration (FAA) guidelines. Airports in Oklahoma provide businesses, residents, and visitors with a high level of accessibility to a wide variety of airports and aviation services. Implementing strategic improvements and focused investment recommendations from the plan can elevate the airport system's current performance.

OKLAHOMA'S STATE AIRPORT SYSTEM



SYSTEM CHARACTERISTICS

108 total system airports

4 airports with commercial airline service

104 general aviation airports

90% of airports included in FAA's National Plan of Integrated Airport Systems (NPIAS)

Airports included in the NPIAS are eligible for FAA funding. FAA, OAC, and airport sponsor partnerships are important for maintaining and improving the airport system.

INVENTORY

The plan started with a comprehensive inventory effort; information was collected on airport activity, facilities, and services. Special inventory efforts focused on:

- Airport control of runway protection zones (RPZs)
- Runway safety areas (RSAs) meeting FAA standards
- Parallel runways/taxiways meeting separation standards
- Primary runways with clear 20:1 approaches
- Airports with property open for development
- Hangar storage and general aviation terminal building characteristics

Data collected as part of the system plan is stored in a Geographic Information System database; the database is accessible at oac.ok.gov.



ENID WOODRING REGIONAL AIRPORT (WDG)

STATE HOUSE DISTRICT 38 | STATE SENATE DISTRICT 19

OVERVIEW

The system plan identifies strategies for improving **Oklahoma's 108 commercial and general aviation airports**. Each airport's improvements identified in the system plan are focused on helping the airport meet its designated role in the state system. By implementing individual airport recommendations, a higher level of system-wide performance will be achieved. System plan findings and recommendations for **ENID WOODRING REGIONAL AIRPORT** are discussed in this report.



ENID WOODRING REGIONAL AIRPORT (WDG)



KEY AIRPORT CHARACTERISTICS

FAA/NPIAS ROLE: REGIONAL

STATE ROLE: NATIONAL BUSINESS

OWNER: CITY OF ENID

PRIMARY RUNWAY: 17 / 35

PRIMART RUNWAT: 17/35

APPROACH TYPE: PRECISION

BASED AIRCRAFT: 66

SERVICES: FBO, AVGAS / JET A FUEL, AIRCRAFT

MAINTENANCE



AIRPORT ROLE

The system plan included detailed analysis to establish a role for each airport. The analysis assigned the **Enid Woodring Regional Airport** to the National Business role category. To determine the airport's role assignment, the following factors were considered:

- Total based aircraft, annual operations, and business jet activity
- Runway length, approach type, and air traffic control tower
- Airport reference code (ARC) and fuel type
- Community size and support, along with federal airport role
- Historic and projected rate of population and employment growth
- Business ready characteristics and annual economic impact

ENID WOODRING REGIONAL AIRPORT



NATIONAL BUSINESS AIRPORT CHARACTERISTICS

MINIMUM RUNWAY LENGTH OBJECTIVE: 6,000 FEET

MARKETS SERVED: PREDOMINANTLY SERVE LARGE COMMUNITIES IN OKLAHOMA

AIRCRAFT SUPPORTED: LARGE BUSINESS JETS

SUITED FOR: TRAVEL TO DOMESTIC AND INTERNATIONAL DESTINATIONS

PRIMARY RUNWAY: SERVED BY A FULL PARALLEL TAXIWAY, PRECISION APPROACH, AND APPROACH LIGHTING

FACILITY/SERVICE OBJECTIVES: A PUBLIC TERMINAL, JET A FUEL, AND FBO

AIRPORT REPORT CARD FOR ENID WOODRING REGIONAL AIRPORT

AIRPORT ROLE: NATIONAL BUSINESS		AIRPORT NAME: ENID WOODRING REGIONAL		CITY: ENID	LOCID: WDG
FACILITIES	OBJECTIVE	ACTUAL	MEETS OBJECTIVE	IMPROVEMENT NEEDED	ESTIMATED COST
		AIRSIDE FACIL	ITIES		
Airport Reference Code	C or D	C-III	Yes	-	
Primary Runway Length	6,000 ft	8,613 ft	Yes	-	
Primary Runway Width	100 ft	100 ft	Yes	_	
Taxiway Type	Full Parallel	Full Parallel	Yes	-	
Runway Lighting	MIRL	MIRL	Yes	-	
Taxiway Lighting	MITL	MITL	Yes	_	
Approach Type	ILS or LPV	ILS	Yes	_	
Approach Lighting System	Both RWY Ends	One RWY End	No	Install Approach Lighting on RWY End 17	\$550,000
Rotating Beacon	Yes	Yes	Yes	-	
Segmented Circle	Yes	Yes	Yes	_	
Wind Cone	Yes	Yes	Yes	_	
Visual Guidance Slope Indicator	Both Ends 4 Box	Both Ends 4 Box PAPI	Yes	-	
Runway End Identifier Lights	Both RWY Ends	Base End REILs	No	Install REILs on RWY End 35	\$50,000
Weather Reporting	AWOS or ASOS	AWOS III	Yes	_	
Primary RWY PCI	70	87	Yes	-	
Weight Capacity	20,000 SW and 75,000 DW	60,000 SW / 73,000 DW	No	Increase Weight Bearing Capacity	\$15,505,200
Covered Storage	100% of Forecasted Based AC	88%	No	8 spaces	\$1,880,000
Ramp Area	25,000 SY (15 spaces - large aircraft)	15,000 SY	No	Increase Ramp Size by 10,000 SY	\$2,700,000
	Ector of the space image and any	GENERAL AVIATION		,	,_,,,,,,,
Terminal Building	2,500 sqft	6,200 sqft	Yes	_	
Restroom (24/7 or key code)	Yes	Yes	Yes	_	
Conference Area	Yes	Yes	Yes	_	
Pilot's Lounge	Yes	Yes	Yes	_	
Office Space for Airport Manager	Yes	Yes	Yes	_	
Public Waiting Area	Yes	Yes	Yes	_	
3		SERVICES			
Fuel	AvGas and Jet A	AvGas / Jet A	Yes	_	
Jet Fuel (24/7 trucking)	24/7 truck fueling	Yes	Yes	_	
Fixed-Base Operator	Yes	Yes	Yes	_	
Aircraft Maintenance	Full Service (Major)	Minor Maintenance	No	Establish Full Service Maintenance Operation	*
Ground Transportation	Yes	Yes	Yes	-	
Overnight Aircraft Storage	2 jets	12 spaces	Yes	_	
GPU	Yes	Yes	Yes	-	
LAV Service Cart	Yes	No	No	Acquire LAV Service Cart	\$25,000
		COMPLIANCE WITH FA	A GUIDANCE		
RPZ Control	Airport Controls all RPZs	Partial Control	No	Secure Full Control of RWY End 35	*
RSA Standards	Compliance with RSA Standards	500' x 1,000' beyond RWY end	Yes	-	
Runway/Taxiway Separation	400 ft	400 ft	Yes	-	
Height Zoning	Jurisdiction with Height Zoning Ordinance	Enid/Garfield - Yes	Yes	-	
20:1 Surface Obstructions	20:1 Surface Clear of Obstructions	Obstruction on RWY End 17	No	Address Obstruction on RWY End 17	*
*Costs are provided only if availabl	e from airport identified projects list			System Plan Project Cost Subtotal:	\$20,710,000

FACILITY AND SERVICE OBJECTIVES

Airports in Oklahoma should ideally be equipped with facilities and services to fulfill their designated role in the state airport system. As part of the system plan a report card was developed for each airport. The report card compares current facilities and services to those for each airport's recommended role and any deficiencies are noted. Costs to address most noted deficiencies are also identified in the plan.

INVESTMENT TO SUPPORT AIRPORT IMPROVEMENT

Over the next 20 years, a total cost of **\$38.7 million** was identified to improve the **Enid Woodring Regional Airport**. These costs include those needed to address both system plan and airport identified projects.

On an average annual basis, it is estimated that at least \$1.9 million will be needed to improve and maintain the airport. According to an OAC study, the airport has \$29.2 million in annual economic impact. This benefit should be considered to provide context for the airport's estimated annual financial need.

FINDINGS FOR ENID WOODRING REGIONAL AIRPORT

Ideally, all airports should be improved to meet their system plan identified projects. Prior to implementation, some projects will require demand justification, master planning, environmental analysis, and engineering/permitting. Some airports may have constraints that preclude them from developing all system plan identified projects.

A snapshot of some of the more notable projects identified for **Enid Woodring Regional Airport** follows. Appendix C of the System Plan's Technical Report contains a complete listing of airport and system plan identified projects for the airport.



SECURE FULL RPZS

CONSTRUCT ADDITIONAL HANGARS

EXPAND AIRPORT APRON

INSTALL APPROACH LIGHTING

CLEAR OBSTRUCTION IN 20:1 SURFACE

