



Aviation System Plan 2010-2030 Individual Airport Report Orange City Municipal Airport





Prepared for:

IOWA DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION



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Individual Airport Report Orange City Municipal Airport

The *Iowa Aviation System Plan* Individual Airport Report provides an overview of the aviation system in Iowa, as well as specific information related to the Orange City Municipal Airport. Iowa's air transportation system plays a critical role in the economic development of the state and quality of life for Iowans. The *Iowa Aviation System Plan* evaluates existing conditions and makes recommendations for future



development of the air transportation system to meet the needs of users over the next 20 years.

Airport sponsors and airport management can use the Individual Airport Report to better understand the role their airport plays in the state and use it as a guide to improve facilities and services for their aviation users. The Individual Airport Report is divided into two sections: Section One provides an overview of the statewide aviation system; and Section Two provides specific information for the Orange City Municipal Airport. Additional information regarding the *Iowa Aviation System Plan* can be found at http://www.iowadot.gov/avaition.index.html.

Section One – System Plan Overview

1.1 System Planning Process

Development of a meaningful and useful planning document centered on the analysis of data collected for the system's inventory and input received from public involvement on issues, concerns, and needs affecting aviation in Iowa. A comprehensive data collection effort, analysis, and significant public involvement guided the development of the 2010 *Iowa Aviation System Plan*. Contributions from the System Plan Technical Advisory Committee, comprised of individuals involved in different aspects of aviation across the state, as well as input received from the public at five input meetings, also guided the planning process. The process to complete the *Iowa Aviation System Plan* included the following steps:

- Identify goals, objectives, and performance measures.
- Inventory of existing aviation facilities and infrastructure.
- Update airport roles.
- Identify facility and service targets for airport roles.
- Forecast of aviation activity.
- Discuss emerging trends and technologies.
- Develop system recommendations.



1.2 System Plan Goals, Objectives, and Performance Measures

The identification of goals establishes the framework necessary to guide future development and maintenance of the system's airports based on key areas of existing and anticipated user needs. Meeting these goals allows airports to provide facilities and services that meet the air transportation demands of the economy, citizens, and visitors of the state.



The following six goals were established for the system to

adequately meet user demands and achieve the overall vision of aviation in Iowa:

- Safety and Security Provide a safe and secure system of airports.
- Infrastructure and User Support Provide an airport system that meets existing and future user needs.
- Accessibility Provide a system of airports that is adequately accessible from both the ground and the air.
- Economic Support Support economic development through the air transportation system.
- **Planning** Establish airport-related local planning to guide the development and operation of airports in Iowa.
- Education and Outreach Provide local aviation education opportunities that promote understanding, safety, utilization, and career development.

Objectives identify specific means and methods needed to achieve each goal based on an assessment of existing and future user needs. Some objectives may target facilities or services, while others quantify future needs. Not all objectives will be applicable to each airport as some may be adapted to the role it serves within the aviation system.

Performance measures establish criteria to evaluate whether the system is meeting the objectives. Performance measures identify desired levels of the objectives to determine the system's progress towards achieving the goals. Typically expressed as a percentage, the performance measures are used to identify strengths and weaknesses that contribute towards the development of the Plan recommendations. The following lists the objectives and performance measures for each goal.



Goals, Objectives, and Performance Measures

Objectives	Performance Measures
Goal: Safety and Security	
 Airports have clear approaches to primary runways. Airports have clear approaches to all runways. Airports have emergency response plans. Airports develop and implement security plans. 	 Percent of airports with clear primary runway approaches. Percent of airports with clear approaches to all runways. Percent of airports with emergency response plans. Percent of airports with airport security plans.
Goal: Infrastructure and User Support	
 Airports meet facility targets identified for their specific role. Airports meet service targets identified for their specific role. Primary runways maintained to PCI of 70 or higher. Airports maintain an overall PCI of 70 or higher. Based aircraft stored in covered hangars. 	 * Percent of airports meeting facility targets. * Percent of airports meeting at least 75% of service targets. Percent of airports with primary runway PCI of 70 or greater. Percent of airports with overall airport PCI of 70 or greater. Percent of airports with aircraft storage for all based aircraft.
Goal: Accessibility	
 A 30-minute or less drive time to a commercial or enhanced service airport. A two-hour or less drive time for most lowans to a commercial service airport A 30-minute or less drive time to an airport with weather reporting equipment. A 30-minute or less drive time to an airport with an instrument approach for most lowans. A 30-minute or less drive time to an airport with a vertically guided approach. Goal: Economic Support Airports coordinate with local economic development offices, chambers of commerce, and city and county officials to include airport information in business promotion materials. Most of the employment is within a 30 minute drive time of a commercial or enhanced airport. Airports support aircraft owned and operated by companies doing business in proximity to an airport. 	 Percent of population 30 minutes from a commercial service or enhanced service airport. Percent of population within two hours of a commercial service airport. Percent of population within 30 minutes of an airport with weather reporting equipment. Percent of population within 30 minutes of an airport with an instrument approach. Percent of population within 30 minutes of an airport with a vertically guided approach. Active coordination with local economic development offices, chamber of commerce, city, and county officials to include airport in business materials. Percent of employment within 30 minutes of a commercial service or enhanced airport.
Goal: Planning	
 Airports have a current master plan or ALP. Airports are protected by local height zoning ordinances. Airports are included in city/county comprehensive plans or land use plans that address compatible land use around airports. Goal: Education and Outreach 	 * Percent of airports with a current master plan and/or ALP. Percent of airports protected by airport height zoning. Percent of airports with compatible land use planning through city/county comprehensive planning or land use plans.
 Airports establish regular communication programs (newsletters, press releases, web sites, or social media.) Airports have based rental aircraft and availability of regular flight instruction. Airports host pilot safety programs. Airports host annual aviation events such as fly-ins, air shows, and static aircraft displays. Airports host additional types of public events such as business after hours receptions or open houses. Airports host organized youth education activities such as Young Eagles events or youth camps. 	 Percent of airports with regular communication programs. Percent of airports that have based rental aircraft and regular flight instruction. Percent of airports that host pilot safety programs. Airports host annual aviation events. Airports host additional types of public events. Airports host organized youth education activities.

Note: * = Measurement criterion to evaluate performance varies by role.



1.3 Airport Roles

Airports in lowa serve varying types of users and levels of demand. Airports were classified into one of five airport roles based upon their capability to support various types of aircraft and aviation users. Airports were assigned to a role based on currently meeting specific facility and services criteria. As conditions change and an airport meets the criteria for a higher level role, the plan is flexible to recognize role changes. The following table lists each role and its classification criteria while the following graphic identifies the location of each system airport.

Role Classification Criteria

System Role	Criteria
Commercial Service - Commercial Service airports su	pport some level of scheduled commercial airline service,
have the infrastructure and service available to support	a full range of general aviation activity, meet most needs
of the aviation system, and serve as essential transporta	ation and economic centers of the state.

• Commercial airline service.

Enhanced Service – Enhanced Service airports have runways of 5,000 feet or greater in length, facilities and services that can accommodate a full range of general aviation activity including most business jets, serve business aviation, and are regional transportation centers and economic catalysts.

- 5,000 foot or greater paved runway.
- Airport Reference Code (ARC) of C-II or greater.
- Full time staffing during regular weekday and weekend business hours, available 24 hours a day.
- Availability of most based services including aircraft maintenance, flight training, rental aircraft, and aircraft charter.
- Availability of jet fuel.
- Weather observing system located on airport.

General Service – General Service airports have runways 4,000 feet or greater in length, facilities and services customized to support most general aviation activity including small to mid-size business jets, and service as a community economic asset.

- 4,000 foot or greater paved runway.
- Availability of some based services including aircraft maintenance, flight training, rental aircraft, and aircraft charter.
- Staffing during regular business hours.

Basic Service – Basic Service airports have runways 3,000 feet or greater in length with facilities and services customized to meet local aviation demands.

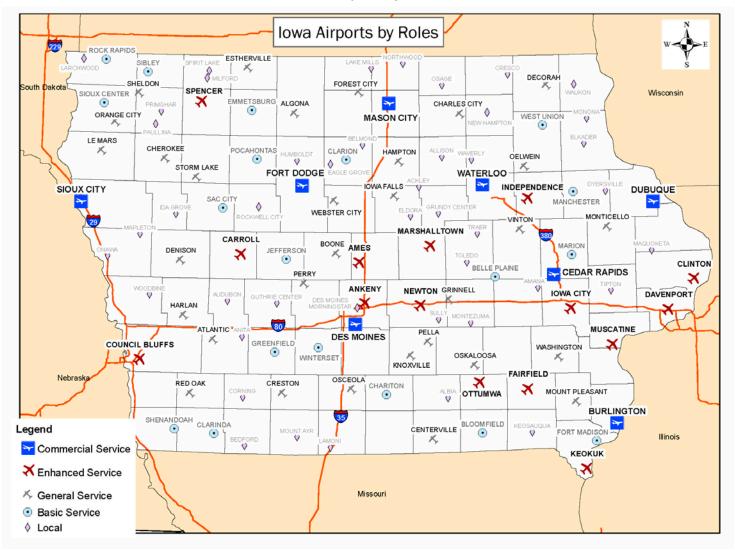
- 3,000 feet or greater paved runway.
- Availability of aircraft fuel.
- Some availability of airport or FBO personnel or on-call availability 24 hours.

Local Service – These airports support local aviation activity, offer few airport services, have turf runways, or are unable to meet criteria defining any other role.

- Turf runways.
- Airports not meeting criteria in any other roles.



Iowa Airports by Roles





1.4 Facility and Service Targets

Facility and service targets were established to help airports, within a specific role, meet the needs of their users. While not all targets are required for inclusion in a particular role, these are recommended levels of service and/or facility targets appropriate for the type of use associated with each role. Airports are encouraged to meet or exceed suggested targets for their role to satisfy local and aviation system needs.

The targets are separated into two main categories: airside and landside facilities, and services. Targets for each role vary based on the needs of aviation users for that role. The Enhanced Service airports, for example, will have more targets to meet the needs of business users. There are fewer targets for Local Service airports since they serve users with fewer requirements for operation. In the table below, targets for Commercial Service airports are combined with Enhanced Service targets, since in most categories, Commercial Service airports will exceed targets. Targets required for inclusion in a role are highlighted in red in the following facility and service tables.

Target Description	Target Description Commercial/Enhanced Service Targets		Basic Service Targets	Local Service Targets			
Airside							
Airport Reference Code	C-II	B-11	B-I or below	A-I			
Primary Runway Length	Minimum 5,000 ft	Minimum 4,000 ft	3,000 ft	Not an objective			
Primary Runway Width	Minimum 100 ft	Minimum 75 ft	Minimum 60 ft	Minimum 50 ft			
Type of Parallel Taxiway	Full parallel	Turnarounds meet standards (both ends)	Exits as needed	Not an objective			
Type of Runway Approach	Vertical guidance	Non-precision	Visual	Visual			
Runway Lighting	MIRL	MIRL	LIRL	Not an objective			
Taxiway Lighting	MITL	MITL	Not an objective	Not an objective			
Visual Guidance Slope Indicator	Both runway ends (or ILS)	Both runway ends	Not an objective	Not an objective			
Runway End Indentifier Lights (as required)	Both runway ends (or ILS)	Both runway ends Both runway ends N		Not an objective			
Rotating Beacon	Yes	Yes Yes		Not an objective			
Lighted Wind Indicator	Yes (multiple as needed)	Yes	If open for night	If open for night			
RCO Facilities	Tower or RCO	Not an objective	Not an objective	Not an objective			
Wind coverage or crosswind runway	Crosswind runway or 95% wind coverage for NPIAS facilities	Crosswind runway or 95% wind coverage for NPIAS facilities	Not an objective	Not an objective			
	Lan	dside					
Covered storage	100% of based aircraft	100% of based aircraft	100% of based aircraft	Not an objective			
Overnight storage for	Typical average aircraft/	Typical average aircraft/		N			
business aircraft	business user demand	business user demand	Not an objective	Not an objective			
Aircraft apron	100% of average daily transients	100% of average daily transients	50% of average daily transients	Not an objective			
Terminal/administration building	Yes	Yes	Waiting area	Not an objective			
Paved entry/terminal parking	Yes	Yes	Not an objective	,			

Facility Targets

Note: Targets highlighted in RED are requirements for role classification



Service Targets

Target Description	Commercial/Enhanced	General Service	Basic Service	Local Service			
Target Description	Service Targets Targets Tar		Targets	Targets			
Services							
Fuel (type & hours) 100LL & Jet A - 24 hour - single point		100LL	100LL	Not an objective			
Weekday hours of operation	Standard business hours, after hours on-call	Standard business hours, after hours on- call	On-call	Not an objective			
Weekend hours of operation	Standard business hours, after hours on-call	Standard business hours, after hours on- call	On-call	Not an objective			
Ground transportation	Courtesy car/car rental available	Courtesy car/car rental available	Not an objective	Not an objective			
Food & Beverage	Vending	Vending	Not an objective	Not an objective			
Posted contact info	Yes	Yes	Yes	Yes			
Internet access	Yes	Yes	Not an objective	Not an objective			
Restroom	Yes	Yes	Yes	Not an objective			
Pilot area	Yes	Yes	Not an objective	Not an objective			
Security	Security plan	Security plan	Security plan	Security plan			
Snow removal	Timely snow removal	Timely snow removal	Snow removal	Not an objective			
Rental aircraft	Based	Based	Not an objective	Not an objective			
Flight training	Available	Available	Available	Not an objective			
Aircraft maintenance/repair	Based	Based	Not an objective	Not an objective			
Aircraft charter	Based	Available	Available	Not an objective			
Weather reporting/flight planning capabilities	Yes	Yes	Not an objective	Not an objective			

Note: Targets highlighted in RED are requirements for role classification

1.5 System Forecasts, Trends, and Technology

During the past decade, aviation activity was impacted by economic conditions and events that were difficult to predict. Projections for the next twenty years indicate commercial airline enplanements, based aircraft, and operations are expected to experience slow growth. The 2010-2030 Federal Aviation Administration (FAA) Aerospace Forecast projects that the number of active aircraft throughout the planning period will increase at one percent (1.0%) annually, while the number of based aircraft in the state is projected to be slightly higher at 1.25 percent (1.25%). Aircraft operations are anticipated to increase at one-half of one percent annually.

Several anticipated trends and developing technologies will affect aviation in Iowa throughout the planning period. It is important the system is prepared to adapt to these changes to meet the shortand long-term needs of aviation users. Topics that could significantly impact aviation in Iowa include the implementation of the Next Generation Air Transportation System (NextGen), environmental sustainability, and future aircraft types.



1.6 System Plan Recommendations

Federal, state, and local airport sponsors all have a role in providing adequate infrastructure and services to support the demands of the air transportation system. Review of the system's performance and comments received from the public and the System Plan Technical Advisory Committee identified recommended improvements and initiatives. Recommendations address specific goals and general concepts for the system. A cooperative approach towards the implementation of plan



recommendations is necessary for the Iowa aviation system to meet the air transportation demands of the state. Continued management of essential programs and services by the Iowa Department of Transportation (Iowa DOT) Office of Aviation helps strengthen the safety and security of the state aviation system.

Airport sponsors own and operate the airports, having ultimate responsibility for daily and long term operations and maintenance. Recommendations in the *Iowa Aviation System Plan* provide a guide for airport sponsors to assess their role to ensure that Iowa has safe, quality facilities and services to meet the air transportation needs. Recommendations to enhance safety of the system include actively mitigating obstructions, developing and enforcing compatible land use controls, actively mitigating wildlife hazards, and developing emergency response plans. Airport sponsors are encouraged to engage their community leaders and stakeholders in developing a strategic plan to guide the future of the airport and its role in economic development. More specific recommended actions are detailed beginning on Page 13 of this report.

1.7 System Plan Summary

The lowa aviation system is an integrated network of users, aircraft, businesses, airports, technologies, and services that supports the economy and serves as a transportation resource for both the state and the nation. The lowa DOT, in conjunction with the FAA and individual owners and operators of each airport, continue to strive towards meeting system goals and objectives to maintain a safe, efficient, and effective aviation system. As airports respond to changing needs of aviation users and the communities they serve, it is important to consider both facilities and services identified in the targets established for airport roles.

Maintaining and developing the airports' infrastructure and services is critical to the continued health of lowa's economy and the quality of life for lowans. Through addressing needs identified in the recommendations, the *lowa Aviation System Plan* will help ensure users of the aviation system are offered safe, quality facilities and services that support the air transportation demands of lowa for the next twenty years.



Section Two – Individual Airport Overview

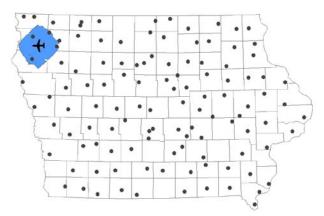
This section provides information specific to the Orange City Municipal Airport, including a brief history of the airport, forecasts of operations and based aircraft, performance measure recommendations, a summary of capital improvement projects, and an airport fact sheet.

2.1 Airport Summary

The Orange City Municipal Airport is owned and operated by the City of Orange City. The FAA recognizes the airport as playing a role in the national airport system and includes the airport in the National Plan of Integrated Airport Systems (NPIAS) as a general aviation airport, which makes the airport eligible for federal funding.

The *Iowa Aviation System Plan* identifies the Orange City Municipal Airport as a General Service airport. General Service airports have runways 4,000 feet or greater in length with facilities and services customized to support most general aviation activity, including small to mid-size business jets. The airport serves as a community economic asset. Specific airport information can be found in the Airport Fact Sheet located in the appendix of this report.

Orange City Municipal Airport is located on the south edge of the City of Orange City. Access is provided via County Road K64.



30 Minute Drive Time





2.2 Airport Current Conditions & Facilities

A summary of general airport information, facilities, and services at the Orange City Municipal Airport is included in the Fact Sheet at the end of this report. Airport information in the Fact Sheet reflects updated information and may vary from the 2010 data used in the *Iowa Aviation System Plan* technical report. The Orange City Municipal Airport has been classified as an General Service airport. This classification is relevant to specific facility and service targets as well as performance measures.

2.3 Airport Forecasts

Aviation demand projections for based aircraft and aircraft operations were prepared for each of the 117 public use airports in Iowa's aviation system. A number of different FAA forecasting techniques were utilized in the projection of aviation activity at each airport ranging from subjective judgment to mathematical modeling based on historical trends. Data obtained from airport managers, the Office of Aviation, the 2010-2030 FAA Aerospace Forecast, and the FAA Air Traffic Activity Data System (ATADS) also contributed to the projections developed for each airport.

Based aircraft projections were developed for each airport by multiplying a compound annual growth rate (CAGR) of 1.25 percent (1.25%) to the number of current (2010) based aircraft at each airport as reported by airport managers. Aircraft operations were projected by multiplying the forecasted number of based aircraft by an adopted Office of Aviation estimation guideline outlined in FAA Order 5090.3C, *Field Formulation of the National Plan of Integrated Airport Systems (NPIAS).* This is an acceptable procedure to forecast operations where limited or no historical data may be available, permitting a single methodology to be applied to all airports. Airports with 1 to 30 based aircraft forecasted were assigned 250 operations per aircraft, while airports with 31 to 99 based aircraft were assigned 350 operations per aircraft and operations projections developed for Orange City Municipal Airport using the methodologies as described previously are presented in the following table.

	•	
Forecast Year	Based Aircraft	Operations
2010	10	2,500
2015	11	2,750
2020	11	2,750
2025	12	3,000
2030	13	3,250

Airport Forecasts

Sources

Based aircraft: 2010 Airport Manager Survey, Mead & Hunt, Inc.

Operations: FAA Order 5090.3C, FAA Aerospace Forecast 2010-2030, FAA ATADS



2.4 System Performance by Airport

Although progress has been made to achieve the goals and objectives, continuous improvements are necessary to provide Iowa with an air transportation system that supports the economy and quality of life demands. Orange City Municipal Airport has a role in meeting these goals by striving to meet the individual performance measures that are applicable to its current role as an General Service airport. Each airport plays a role in meeting the goals and objectives. Individual airports can assess their specific performance, to



determine what is appropriate to meet their needs, taking into account the recommendations from the system plan. It is understood that full implementation of some of the targets may not be feasible; however, it is important to identify goals and work to attain those that are reasonable.

2.4.a Recommendations to Support the System Plan Goals

Evaluation of how well the Orange City Municipal Airport is meeting the objectives identified areas that could be improved to achieve the system plan goals. Focusing future improvements to enhance facilities, services, and planning to meet the objectives, while maintaining existing performance in areas meeting or exceeding desired conditions, contributes to a vibrant aviation system. Recommendations included on Page 14 list actions the airport may consider to benefit users of aviation in Iowa. In addition to specific recommendations to meet system goals and objectives, the *Iowa Aviation System Plan* recommends that airport sponsors and managers take the following actions to enhance a safe and effective operating environment:

- Reduce on-airport wildlife habitat and mitigate hazardous wildlife activity to limit potential safety concerns.
- Engage community leaders and stakeholders in developing a strategic plan to guide the development of the airport, coordinating with economic development interests.
- Develop a welcome image for visitors arriving by air and provide directional signage to the business community to ensure a connection.
- Actively work to protect runway approaches by developing or enforcing height and compatible land use zoning.

2.4.b Recommendations to Achieve the Facility and Service Targets

Facility and service targets identify levels of infrastructure and services that are desirable to effectively meet user needs. Though it may not be feasible to meet or exceed all targets, the airport is encouraged to develop and maintain facilities and services to levels defined for the General Service role. The tables presented on Page 15 and Page 16 identify what is recommended for the Orange City Municipal Airport to achieve each target.



Airport Recommendations to Support the Goals of the Iowa Aviation System

Objective	Achieving Performance/Recommendation
Goal: Safety and Security	
 Airport has clear approaches to primary runway. 	YES - Continue to preserve clear approaches to primary runway.
Airport has clear approaches to all runways.	YES - Continue to preserve clear approaches to all runways.
• Airport has an emergency response plan.	NO - Create an airport emergency plan and update annually.
Airport develops and implements a security plan.	YES - Continue to update security plan annually.
Goal: Infrastructure and User Support	
 Airport mosts facility targets identified for its role 	NO - Improve facilities to meet or exceed targets by role. Continually maintain and
Airport meets facility targets identified for its role.	preserve infrastructure to meet or exceed targets.
• Airport meets service targets identified for its role.	YES - Continue to provide services that meet or exceed targets by role.
 Drimony runway maintained to PCI of 70 or higher 	NO - Improve condition of primary runway surface to a PCI rating of 70 or higher.
 Primary runway maintained to PCI of 70 or higher. 	Primary runway PCI: 60
	NO - Improve conditions of all pavement surfaces to increase overall airport PCI
 Airport maintains overall PCI of 70 or higher. 	rating to 70 or higher.
	Overall PCI Rating: 60
All based aircraft stored in covered hangars.	YES - Continue to provide hangars for all based aircraft.
Goal: Economic Support	
Airport coordinates with local officials to include	Establish cooperative relationships with local economic development offices,
information in business promotional materials.	chambers of commerce, and city and county officials to include airport information
	in business promotional materials.
Goal: Planning	
• Airport has a current master plan or ALP.	YES - Airport continue to update Airport Layout Plan at least every 10 years.
· · · · · · · · · · · · · · · · · · ·	Last Airport Layout Plan update: 2000
 Airport is protected by local height zoning 	YES - Update height zoning ordinance as needed and monitor its enforcement.
ordinances.	
Airport compatible land use is included in	YES - Review compatible land uses addressed in plan and revise as needed during
city/county comprehensive or land use plans.	each comprehensive or land use plan update.
Goal: Education and Outreach	
	NO - Establish a regular communication program to inform interested parties on
Airport has a regular communication program.	airport news and events through newsletters, press releases, web sites, and social
	media.
• Airport has based rental aircraft and availability of	YES - Continue to offer based rental aircraft and the availability of flight instruction.
flight instruction.	
Airport hosts pilot safety programs.	YES - Continue to host pilot safety programs offered by the FAA, industry
	associations, and other aviation organizations.
Airport hosts annual aviation events, additional	Increase efforts to host annual aviation events such as fly-ins and air shows,
types of public events, and organized youth	additional types of public events such as open houses, tours, conferences, and
educational activities.	meetings, and organized youth educational activities such as aviation camps, Young
	Eagles programs, and internships.



Airside and Landside Facility Target Needs

Target Description	Existing Condition		Target	Recommendation		
Airside Facilities						
Airport Reference Code	E	3-1	B-II	Improve airfield to B-II design standards		
Primary Runway Length	4,2	50 ft	Minimum 4,000 ft	Maintain runway length to at least 4,000 ft		
Primary Runway Width	6	0 ft	Minimum 75 ft	Increase runway width to at least 75 ft		
Type of Parallel Taxiway	Conr	nector	Turnarounds meet standards (both ends)	Maintain turnarounds to meet standards at both runway ends		
Type of Runway Approach	Non-P	recision	Non-Precision	Maintain a non-precision approach		
Runway Lighting	M	IIRL	MIRL	Maintain MIRL runway lighting		
Taxiway Lighting	N	IITL	MITL	Maintain MITL taxiway lighting		
Visual Guidance Slope Indicator	Rwy 16Rwy 34VASIVASI		Both runway ends	Maintain a VGSI on both runway ends		
Runway End Identifier Lights (as required)	Yes	Yes	Both runway ends	Maintain REILs on both runway ends		
Rotating Beacon	1	No	Yes	Install a rotating beacon		
Lighted Wind Indicator	Y	'es	Yes	Maintain lighted wind indicator		
RCO Facilities	no	one	Not an objective	n/a		
Wind coverage or crosswind runway	No 95% coverage		Crosswind runway or 95% coverage for NPIAS facilities	Construct a crosswind runway or realign existing runway to achieve 95% wind coverage		
		Landsid	le Facilities			
Covered storage for based aircraft	100% of ba	ased aircraft	100% of based aircraft	Continue to provide storage for all based aircraft		
Overnight storage for business aircraft	No		Typical average aircraft/ business user demand	Construct additional overnight storage for itinerant business aircraft		
Aircraft apron	100% o	f average	100% of average	Maintain apron size to park 100% of		
	daily tr	ansients	daily transients	average daily transients		
Terminal/administration building	Free s	tanding	Yes	Maintain terminal building		
Paved entry/terminal parking	Entry & parking		Entry & parking	Maintain paved entry road & parking lot		



Service Target Needs

Target Description	Existing Condition	Target	Recommendation			
Services						
Fuel (type & hours)	Type: Jet A & 100LL 24 hour availability: Yes	100LL	Continue to provide at least 100LL fuel			
Weekday hours of operation	Dawn-dusk	Standard business hours; after hours on-call	Continue to maintain staffing during standard business hours and after hours on-call			
Weekend hours of operation	Dawn-dusk	Standard business hours; after hours on-call	Continue to maintain staffing during standard business hours and after hours on-call			
Ground Transportation	Courtesy car & car rental	Courtesy car/ car rental available	Continue to provide a courtesy car and/or car rental availability			
Food & Beverage	Yes	Vending	Continue to provide at least vending services			
Posted contact info	Yes	Yes	Continue to post and update after hours contact information			
Internet access	No internet	Yes	Provide a method to access the internet			
Restroom	Number of restrooms: 1	Yes	Continue to provide restrooms			
Pilot area	Yes	Yes	Continue to maintain a pilot area			
Security plan	Yes	Security plan	Continue to maintain and update security plan annually			
Snow removal	Plowing	Timely Snow Removal	Continue to provide timely snow removal			
Rental aircraft	Available	Based	Provide based rental aircraft			
Flight training	Based	Available	Continue to provide flight training			
Aircraft maintenance/repair	none	Based	Provide based aircraft maintenance and repair			
Aircraft charter	On-call	Available	Continue to offer a method to charter aircraft			
Weather reporting/ flight planning capabilities	Yes	Yes	Continue to provide weather reporting & flight planning capabilities			

The Orange City Municipal Airport is unable to expand to meet increased business needs in Northwest lowa. A new Enhanced Service airport for the region was identified in the 2004 lowa Aviation System Plan and is currently under development through a 28E Agreement between Sioux County and the cities of Orange City and Sioux Center. Included in the NPIAS, the Sioux County Airport is planned to be constructed near Maurice, approximately eight miles from Orange City and Sioux Center. A site selection study, master plan, and environmental assessment have already been completed for the airport with land acquisition currently in progress. Orange City is encouraged to maintain the existing condition of facilities and services until the completion of the new airport. Continued support from local communities, Sioux County, the FAA, and the Iowa DOT will help ensure that the new airport is developed to meet aviation needs in Northwest Iowa.



Orange City Municipal Airport

Fact Sheet

		Fact Si	neet		
General Information			Based Aircraft		
Airport name: Orange City Municipal Airport		Single engine: 7			
Associated city: Orang	ge City		Multi engine: 2		
FAA identifier: ORC			Jets: 1		
Iowa Aviation System	Plan Role: General Servi	ice	Military: 0		
Manager: Duane Feek	kes		Helicopters: 0		
Phone: 712-707-4885			Ultralights: 0		
Latitude: 42° 59' 24" N	N		TOTAL: 10		
Longitude: 96° 03' 46'	" W				
Elevation: 1,414 ft					
Airside Facilities			Landside Facilities		
Type of taxiway syste	m: Connector		Apron aircraft tie-down locations: 7		
Taxiway lighting: MIT	L		Total hangar parking spaces: 18		
Rotating beacon: No			Overnight storage	for itinerant aircraft: N	No
Weather reporting eq	uipment: AWOS		Type of terminal/a	dmin building: Free st	anding
Lighted wind indicato	r: Yes		Paved surfaces: En	try & parking	
Remote Communicati	ion Outlet (RCO): none				
Runway Information					
Runway	Length	Width	ARC	PCI rating	Lighting System
16/34	4,250 ft	60 ft	B-I	60	MIRL

Runway Ap	proach information				
Runway	Published approaches	Approach categories	Approach Slope	VGSI	REIL
16	None	Visual	20:1	VASI	Yes
34	NDB or GPS Rwy 34	S-34: 506-1	20:1	VASI	Yes



Orange City Municipal Airport

Fact Sheet

Planning		Fueling Capabilit	ies	
Security plan: Yes	Security plan: Yes		Fuel types: Jet A & 100LL	
Emergency response plan: No		24 hour fueling a	wailable: Yes	
Last Airport Layout Plan update: 20	00			
Local height zoning: Yes				
Inclusion in local comprehensive pla	an: Yes			
Staffing				
Weekday hours of personnel: Dawr	n-dusk			
Weekend hours of personnel: Dawr	n-dusk			
Posted after hours contact information	tion: Yes			
Services & Programs				
Aircraft maintenance & repair: non	e	Aircraft charter:	On-call	
Flight instruction: Based		Rental aircraft: Available		
Snow removal: Plowing		Internet: No inter	rnet	
Food & beverage: Yes		Restrooms: 1	1	
Pilot area: Yes				
Type of ground transportation: Cou	irtesy car & car rent	al		
Regular communication program: n	ione			
Pilot safety program: Annually				
Employment From General Aviation	n Visitor Spending	(Source: 2009 Uses and	d Benefits of Aviation in Iowa)	
Indirect Employment	Induced Em	nployment	Total Employment	
1.5	0.	5	2	
Total Airport-Related Employment				
Direct & Indirect Employment	Induced Employment		Total Employment	
8	5.5		13.5	
Economic Output	Economic Output			
Direct & Indirect Output	Induced Output		Total Output	
\$620,500	\$404,	,400	\$1,024,900	



Orange City Municipal Airport



Source: Iowa Department of Transportation





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The technical report and executive summary for the Iowa Aviation System Plan is available on the Iowa DOT Office of Aviation website at:

http://www.iowadot.gov/aviation.index.html