





North Dakota Aeronautics Commission Budget Hearing

HB 1006

Senate Appropriations – Education and Environment Division March 13th, 2023

Kyle Wanner, Executive Director

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Aeronautics Commission – Statutory Authority

North Dakota Century Code Chapters 2-05, 2-08, 57-40.5, 57-43.3

Major Statutory Responsibilities:

- Encourage the establishment & maintenance of public airport and navigational facilities.
- Cooperates with federal and local government in the promotion & development of aeronautical activities
- Represents the state and industry in all matters relating to aeronautical activities.
- Regulatory functions aircraft registrations, aircraft excise & fuel tax, aerial application, aircraft dealers

Audit for Biennium Ended June 30th, 2021:

The audit did not identify any exceptions or defaults.



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Additional Core Agency Duties

- Airport Infrastructure Grant Funding
- · Airport Planning Support
 - Airport Layout Plan Development
 - Airport Inspections
 - Airspace Analysis
 - Airport Management Support and Resources
- Update Statewide Aviation Publications and Planning Documents
- Aviation Education Promotion and Grant Funding
- Own and Manage Two Public Airports: International Peace Garden Airport and Garrison Dam Recreational Airpark

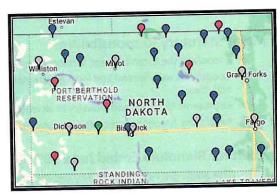


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Agency Programs

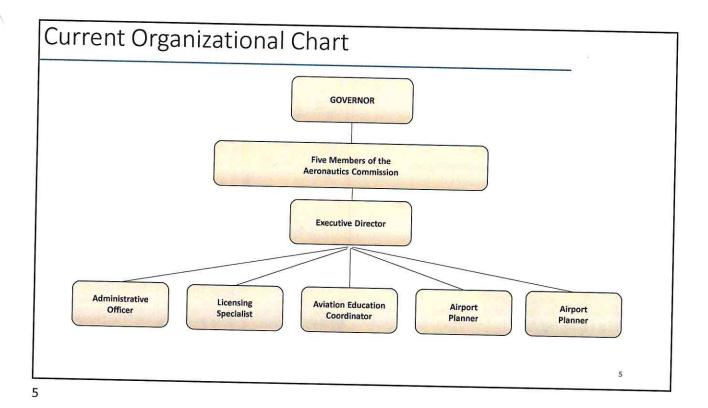
- Passport Program
- Aviation Museum Support
- Flight Training Assistance Program (FTAP)
- · Airport Internship Program
- Aviation Education Grants
- Aviation Career Day Involvement
- Youth Aviation Art Contest
- High School Curriculum Assistance
- · Windsock Program
- Aerial Applicator Alert Map
- Disadvantage Business Enterprise (DBE) Goal and Accomplishment Assistance for airports
- Statewide Automated Weather Observation System (AWOS) Maintenance Program



33 Certified Weather Observation Systems for Aviation

*National Weather Service Maintains 9 Stations
*ND Aeronautics Assists in Maintenance of 24 stations

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North Dakota's Airport System

89 Public-Use Airports in North Dakota

- 71 airports are paved
- 18 airports maintain turf only runways

54 are eligible to receive federal funding

35 are maintained utilizing state and local funding only



Over 200 private airstrips also exist throughout the state

2015 Economic Impact of Aviation Study





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Major Biennial Accomplishments

Adapting North Dakota to Federal Funding Opportunities

- New Federal Funding Programs
 - CARES/CRRSAA/ARPA & BIL/IIJA
- Successfully reacted to changes in environment to maximize federal funding and utilize state funding to fill in gaps and provide additional assistance to airports
- Redeveloped and re-prioritized the statewide Capital Improvement plans for airport development projects.

State Airport Grant Funding

- Provided approximately \$22 million in State Airport Infrastructure Grants to 270 airport projects
 - \$5 million in one-time ARPA allocation from 2021 special legislative session

Established License Requirements for UAS Aerial Applicators



COVID-19 initially led to significant impacts to passenger demand and greatly impacted local revenue streams for the airports.

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Major Biennial Accomplishments

Aviation Education Initiatives

- NDAC partnered with NDAA and UND to receive a federal workforce development grant
 - \$500,000 was received to create professional development opportunities for teachers
- Assisting in the development and growth of aviation programming at high schools
 - Six cities in North Dakota now have aviation related courses
- Distance Education is available to all high school students Annual Career Expo's were developed to occur every Fall to rotate between the Minot Air Museum and Fargo Air Museum
 - 3 Career Expo's have now occurred, and the last event drew over 170 students interested
 - Scholarship Fund development through NDAA

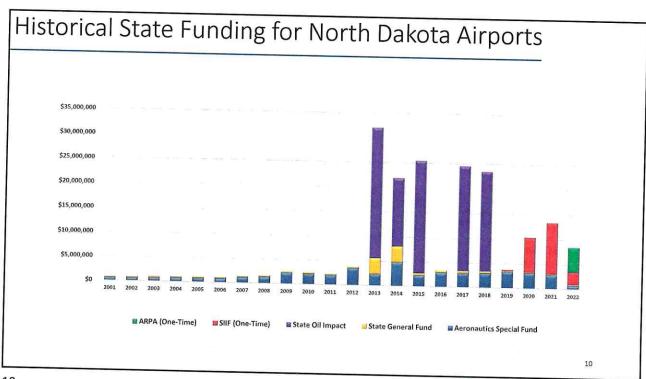
Online Payment System will be available Spring 2023

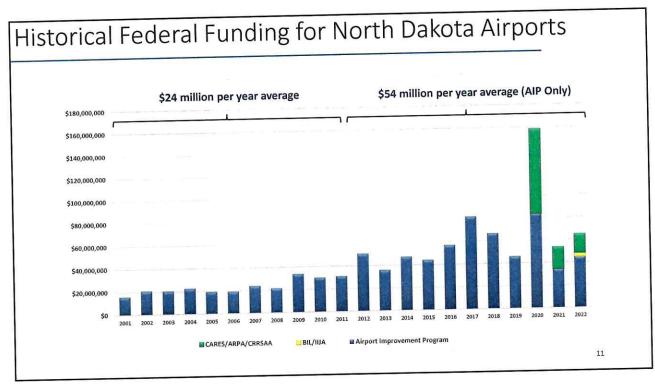
- NDAC is working with BND, NDITD, and Paymentus to develop an updated online payment system
 - Credit card & E-check payment methods will be accepted for all transactions

Updated Pavement Condition Index Study

Updated inventory data was collected in 2021 and released for all airports with pavements







A Decade of Accomplishments

2012 - 2022

- New Bowman Airport (2015)
- New Williston Basin International Airport (2019)
- Airport Layout Plan/Master Plan Updates
 - 37 General Aviation Airports
 - 8 Commercial Airports
- Runway Rehabilitations
 - 34 General Airport Runways
 - 7 Commercial Airport Runways
- Airport Terminals
 - 18 General Aviation Airports
 - New (Minot & Williston)
 - Multiple Commercial Terminal Upgrades
- Other Airport Upgrades
 - Snow Removal Equipment
 - Drainage Improvements
 - Instrument Approaches/Weather Reporting Upgrades
 - Lighting Upgrades



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North Dakota's Return on Investment

From 2013-2022 (Last 10 years):

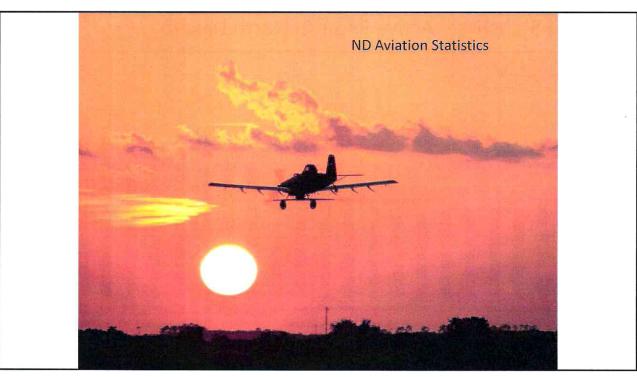
- North Dakota has received \$541 million from Federal Government for Airport projects
- The State of North Dakota has invested a total of \$167 million in airport projects.

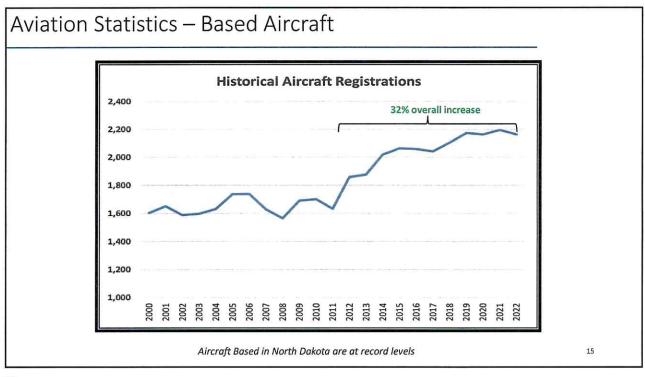
Over the last 10 years - for every \$1 dollar that the state has invested in airports, we have been able to leverage/receive approximately \$3.24 from the Federal Aviation Administration.

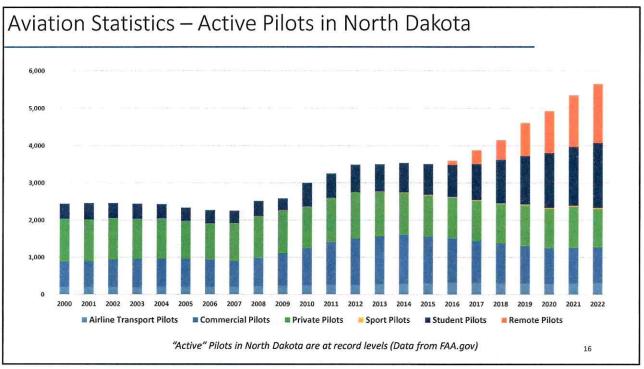


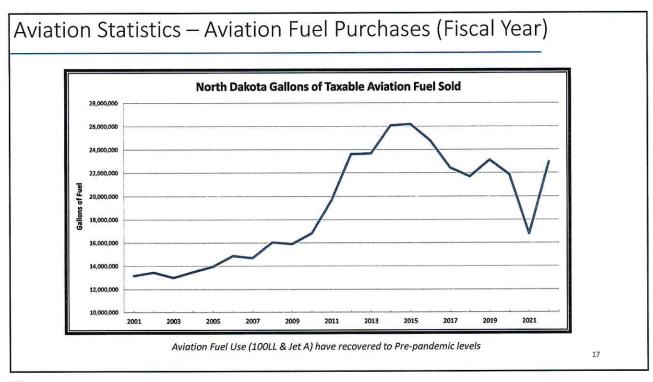
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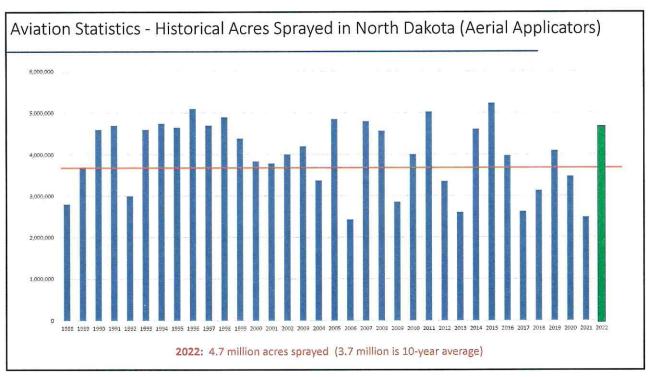
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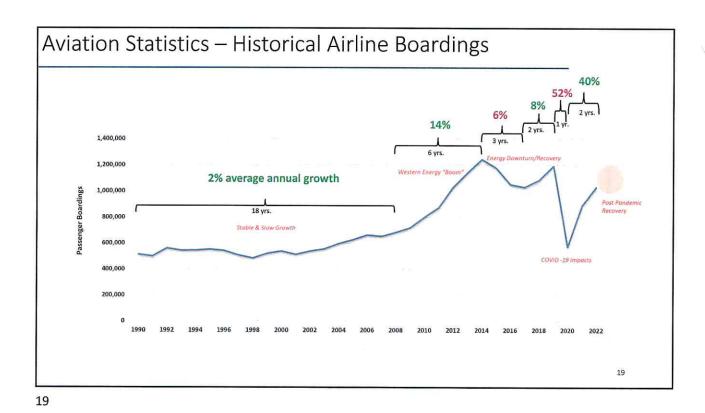






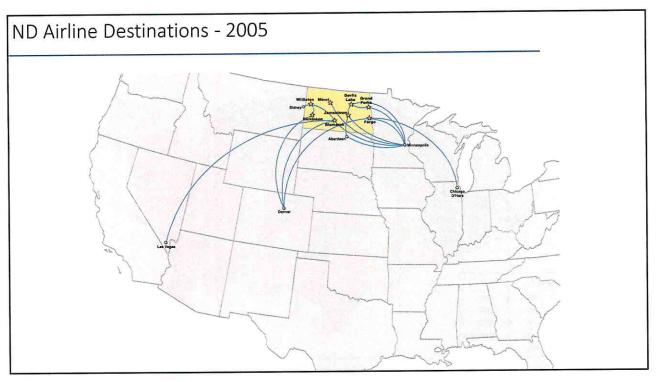


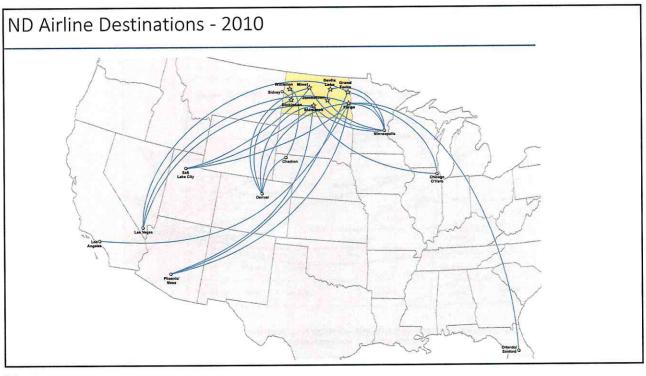


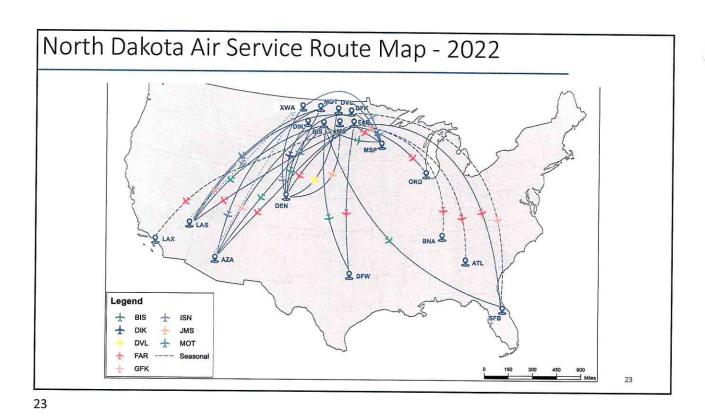


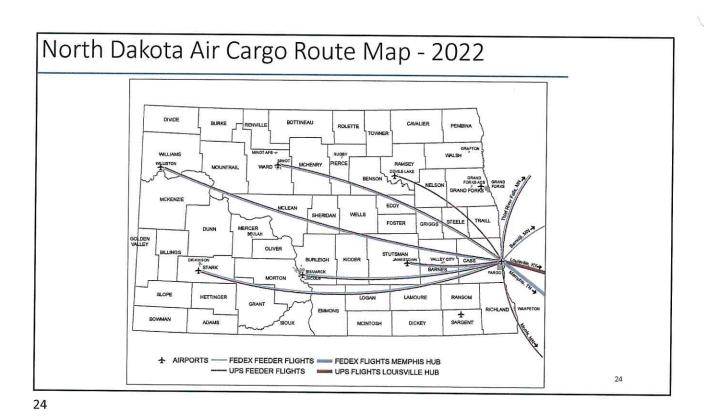
North Dakota versus National Average — Post Pandemic Recovery Analysis

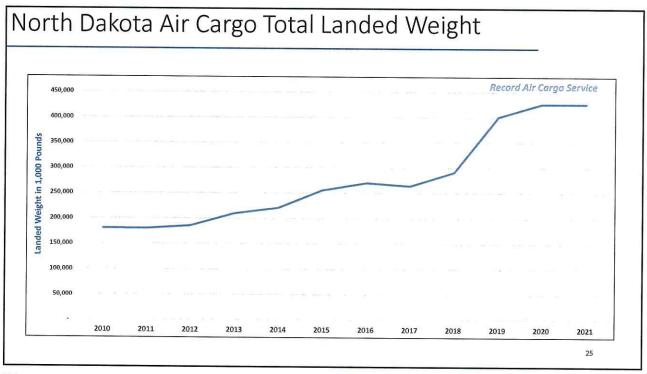
| Nov. TsA Explanement Retention | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.0% | 120.











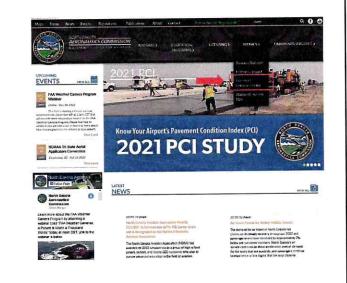


Pavement Condition Index Study

- 60 million square feet of concrete and asphalt pavement are inventoried, and condition is tracked every 3 years.
- Results are provided an interactive Airport Pavement Management System (APMS) tool https://apps.aero.nd.gov/app/pavement/
- Fulfills FAA Grant Assurance 11 and Public Law 103-305 requirements for federal funded airports

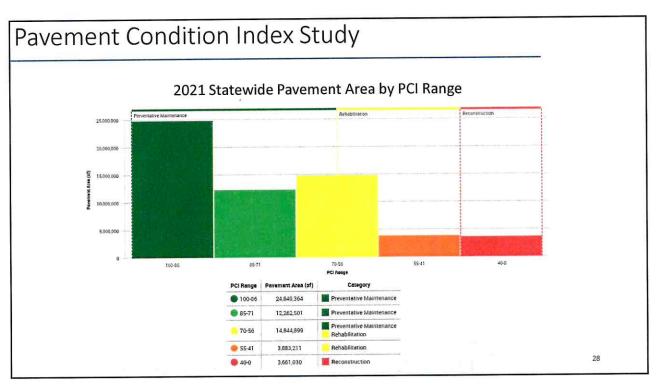
Interactive APMS Tool Includes:

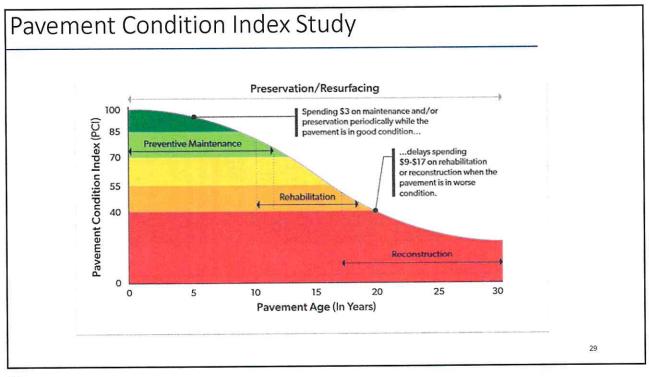
Statewide Summarized Results
Individual Airport Results, including:
Pavement Inventory and Work History
PCI Results
Photographs
Condition Analysis
Needs Analysis
Report Documents

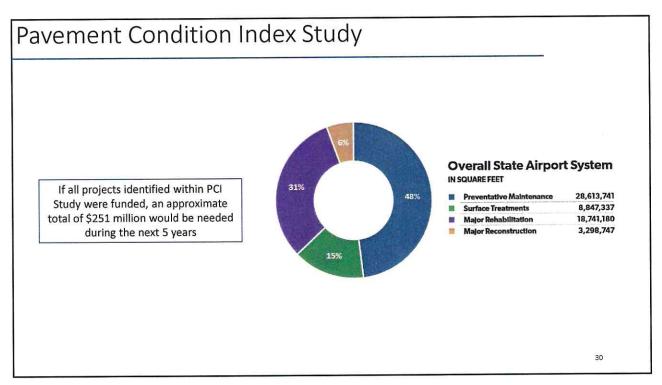


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Pavement Condition Index Study

Branch Use	Area - Weighted Average Condition (PCI)					
	2009	2012	2015	2018	2021	
Entire System	76	77	76	79	77	
Runways	78	81	79	82	79	
Taxiways	76	77	73	79	78	
Aprons	72	69	72	73	71	
Hangar Taxiways	64	64	72	76	75	
Total Pavement (millions sq ft)	52.1	51.9	55.3	56.9	59.5	

North Dakota has been able to successfully maintain our airport pavements over time while also increasing the amount of pavement in the system as our communities and airports grow.

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Biennium Project Highlights – Commercial Service

Fargo

- · Commercial Terminal Area Study
- · Snow Removal Equipment Building Expansion

Grand Forks

- Reconstruct Intersection for Rwy 9L/27R and Rwy 17R/35L
- · UND Bravo Apron Reconstruction

Devils Lake

· Commercial Terminal Design Work

Jamestown

· Terminal Apron Reconstruction



Grand Forks – Runway Intersection Reconstruction (2022)

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Biennium Project Highlights – Commercial Service

Minot

· General Aviation & Cargo Apron Rehabilitation

Bismarck

Major In-Field Drainage Improvements

Dickinson

Primary Runway Reconstruction & Extension

Williston

- · New airport successfully opened Fall of 2019
- Crosswind Runway construction completed Fall of 2020
- · Master Plan Update Ongoing



Dickinson Airport Primary Runway Construction (2022)

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Biennium Project Highlights – General Aviation

Runway Rehabilitations

- Beach
- Carrington
- Cando
- · Glen Ullin
- Hazen
- · Mohall (runway extension)
- · Watford City (runway extension)

Taxiway/Apron Rehabilitations

- Hillsboro
- Tioga
- Washburn
- Garrison
- Hettinger
- Mandan
- Wahpeton



Watford City Airport Runway Reconstruction & Extension (2021)

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Major Airport Projects on Horizon

Commercial Aviation Major Projects

- · Bismarck: Taxiway C Rehabilitation
- · Devils Lake: Commercial Terminal Improvements
- Dickinson: Commercial Terminal Improvements
- · Fargo: Commercial Terminal Expansion
- Grand Forks: Crosswind Runway Reconstruction/Extension and Primary Runway Reconstruction
- Jamestown: Primary Runway Rehabilitation
- · Minot: Storm Water & Drainage Improvements
- · Williston: Deicing Containment Area Expansion

General Aviation Runway Rehabilitations

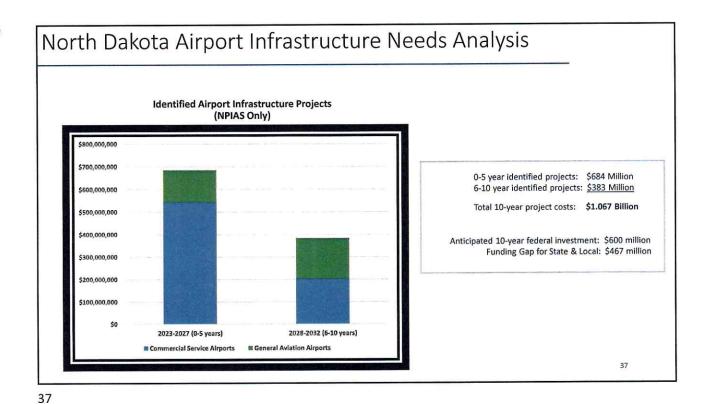
- Crosby
- · International Peace Gardens
- Lakota
- Leeds
- New Rockford
- Westhope

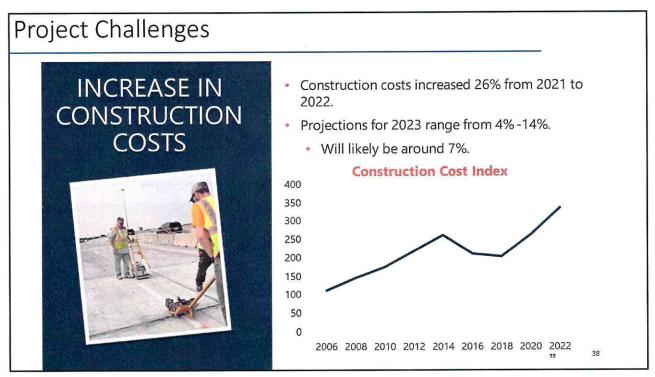


Grand Forks Crosswind Runway Extension



Fargo Commercial Terminal Preferred Alternative Looking Southwest







Looking Forward

Continue to support the aviation industry's recovery from COVID-19 pandemic

- Fully understand Federal Airport Infrastructure program and funding availability as Congress finalizes relief and funding packages
- Leverage federal funds where possible and utilize state grant funds on high priority projects

Support Aviation Education and Workforce Development Initiatives

Update Statewide Aviation System Studies

- Aviation System Plan and Economic Impact of Aviation Studies (Documents produced approximately every 10 years)
 - Anticipated release in 2025
- Updated Pavement Condition Index Study in 2024 (Study produced every 3 years)

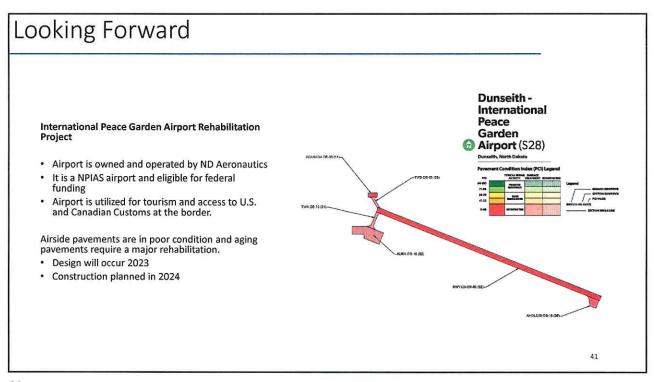
Support the Northern Plains UAS Test Site and VANTIS

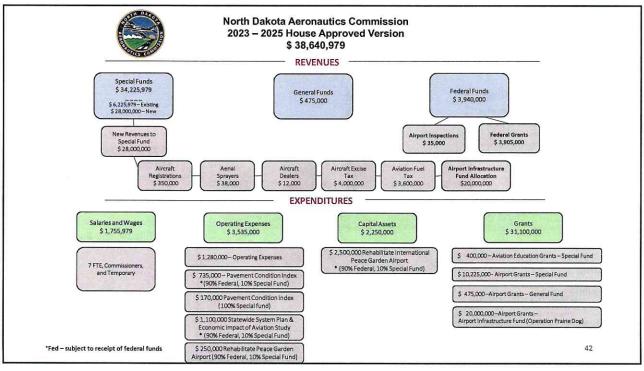
Safe integration of UAS into National Airspace System

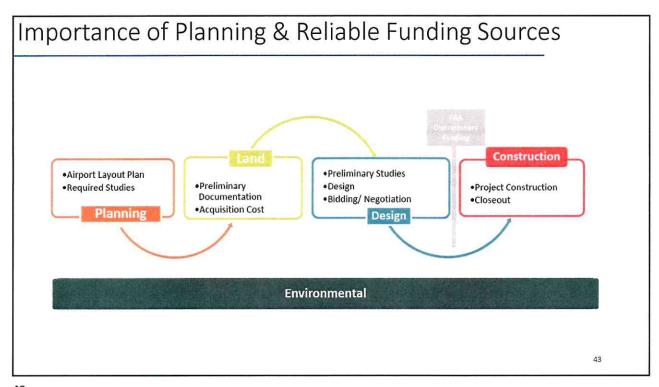


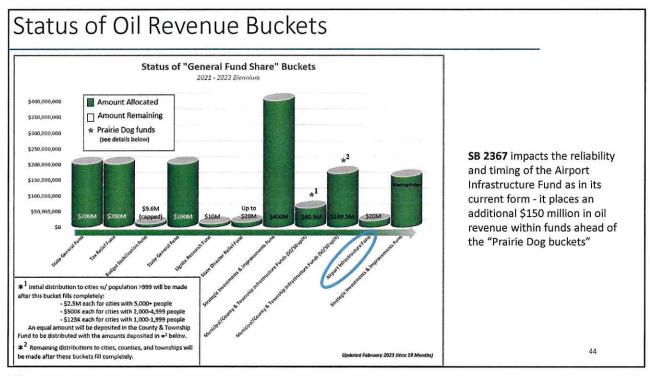


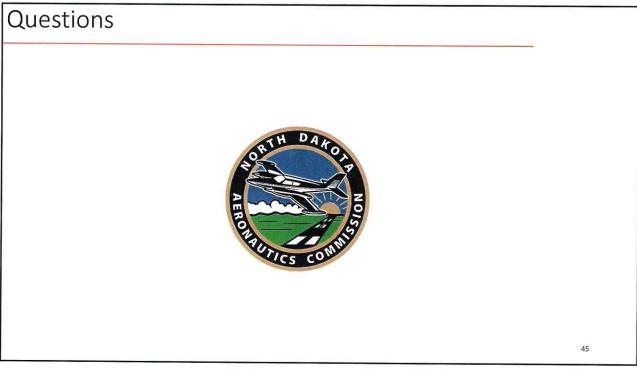
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