2017 SENATE APPROPRIATIONS

SB 2006

2017 SENATE STANDING COMMITTEE MINUTES

Appropriations Committee

Harvest Room, State Capitol

SB 2006/SB 2066 1/13/2017 Job # 26865

☐ Subcommittee
☐ Conference Committee

Committee Clerk Signature

Explanation or reason for introduction of bill/resolution:

8 00

To provide an appropriation for defraying the expenses of the North Dakota Aeronautics Commission.

Minutes:

Testimony Attached # 1 - 10

nina

Legislative Council: Alex Cronquist

OMB: Stephanie Gullickson

Chairman Holmberg called the committee to order on SB 2006/SB 2066. Roll call was taken. All members were present.

Kyle C. Wanner, Executive Director, North Dakota Aeronautics Commission

Director's report - Testimony attached # 1.

Power point presentation – Testimony attached # 2.

2017-2019 CIP/NPIAS Planning Report - Testimony attached # 3.

Facts on the Economic Impact of Airports in North Dakota - Testimony attached # 4.

Agency Mission - Testimony attached # 5.

2015 Pavement Condition Index (PCI) Study Executive Summary – Testimony attached #6. Statewide Economic Impact of Aviation in North Dakota – Testimony attached #7.

(11:30) Chairman Holmberg: part of Hillsboro issue has to do with UAV, is that not the case?

Mr. Kyle Wanner: Yes, the need for the runway rehabilitation. The pavement is old and need of repair. It's a high priority and need to get done earlier.

23:59 **Senator Bowman**: When you redo a runway, what's the longevity of that runway? How long is it supposed to last and how long are they lasting?

Mr. Kyle Wanner: Depends on the type of pavement. Asphalt is 22 years have to do a mill and overlay. Concrete can be 40-60 years. Over the summer, you may have to do crack sealing on asphalt. Concrete lasts longer and less maintenance, but cost expensive. Cost beneficial analysis is in favor of concrete. Across the state there are more concrete runways.

Senate Appropriations Committee SB 2006/SB 2066 January 13, 2017 Page 2

Hillsboro may be concrete, but may bid out both as concrete and asphalt. We need to maintain the analysis every three years. Then maintenance can be done for longevity.

Senator Kilzer: Out of 80 airports, 60 were qualified for federal funds and little under 20 that would qualify for federal funds. What's makes the difference as far as qualifying for federal funds, not. What's the difference?

Mr. Kyle Wanner: 89 public use airports, 53 of those 89, are federally funded or eligible to receive federal funding because they are in the (NPIAS) National Plan of Integrated Airport system which means the federal government has identified those airports to be significant for national air space systems. It is very difficult to get into that system, and if you're not in it currently— we are working on a couple airports to get into that system. But it depends upon your activity levels, how many base aircraft that you have, if you comply with federal standards as well as being a certain distance from other airports. It definitely becomes a challenge when 17 paved airports in our state are not a part of that, so it is reliant solely on state and local funding, but, the rest of those airports are your airports are grass strip that don't require maintenance. So there is some of those in the system as well, not all the airports are paved.

Sub – Committee is: Senators Sorvaag, Krebsbach & Grabinger

(28:10) Matthew Remynse, President of Airport Association of North Dakota (AAND) Testified in favor of SB 2006. Testimony Attached # 8.

(34:20) **Senator Mathern**: I was interested in your comment regarding the medical use of these airports. Is there documentation of the amount of that and the reason I asked is I've heard the opposite that the medical people find that there is so much time to get on and off from their site, so how many people are doing this or how many airports?

Mr. Matthew Remynse: I am not sure of any actual documentation of doctors, where they are flying too, or just know that doctors are using it to provide medical service to rural communities, I don't know if there are any way to track that. I will do some follow-up on that, and if you like I can get the emergency numbers if you wish.

(35:51) **Senator Mathern:** I was thinking not the emergency part, but more of the regular commerce of health care.

(36:25) **Greg Haug, Director, Bismarck Airport, and City of Bismarck, Bismarck, ND**; Testified in favor of SB 2006. Testimony Attached # 9.

(41:40) Kelly Braun, Dickinson Airport, Dickinson, ND Testified in favor of SB 2006. No written testimony. When other airports in the state do well, it allows others to do well.

(42:57) **Rodney Schaaf, Chairman, Bowman Regional Airport Board, Bowman, ND** Testified in favor of SB 2006. Testimony Attached #10.

Chairman Holmberg: Closed the hearing on SB 2006.

2017 SENATE STANDING COMMITTEE MINUTES

Appropriations Committee Harvest Room, State Capitol

> SB 2006 sub-committee 2/7/2017 Job # 28004

☑ Subcommittee☐ Conference Committee

Committee Clerk Signature	Ly Baungath	es don Rose Jan	ing
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Explanation or reason for introduction of bill/resolution:

To provide an appropriation for defraying the expenses of the North Dakota Aeronautics Commission.

Testimony Attached # 1.

Legislative Council: Chris Kadrmas OMB: Stephanie Gullickson

Minutes:

Senator Sorvaag called the sub-committee to order on SB 2006. Budget for the Aeronautics Commission. Roll taken: Senator Krebsbach and Senator Grabinger were also present.

Senator Sorvaag: Let's update the committee.

Kyle C. Wanner, Executive Director, North Dakota Aeronautics Commission
There have been no changes from when we met a month ago. Gov. Burgum made no changes. Except the removing the 1% employee contribution in the second year, which he did for all agencies. Happy to answer any questions.

Senator Sorvaag: It is \$900,000 general fund, but everything else is special fund.

Kyle Wanner: There was a request to Governor Dalrymple to consider an additional \$9M from general fun or funding to help with critical airport projects for the following biennium.

Senator Sorvaag: Neither governor's accepted that?

Kyle Wanner: That is correct. There was not a recommendation from those offices.

Senator Grabinger: With the health insurance and what we are doing with that, we are going to have a new spread sheet on that?

Chris Kadrmas handed out Base Level Funding – Testimony Attached # 1.

Senate Appropriations Committee SB 2006 sub-committee February 7, 2017 Page 2

Senator Sorvaag: This is the same. We pay 100% health insurance and no raises for the biennium.

Chris Kadrmas: That is correct. The Senate version just reflects the health insurance increase, which is across the board for all agencies. It does not reflect an increase for salaries. I didn't bring over any other dollar amounts until committee approves.

Senator Sorvaag: I thank Kyle, unless there are any more questions. There is no general fund except \$900,000 and the rest is special funds. The only thing on the table is options. I'm comfortable with the budget we're looking at, excluding the \$9 million or any dollars. I recommend the base budget. I have a hard time with options at this time because we'll run out of money. This is a straight forward budget.

Senator Krebsbach: I understand the need for some extra flexible dollars that they would like to have in that \$9M request, but as you say, there isn't that kind of money laying around. I would say we don't have to close the door completely. Unless something turns around, we can take it up in the conference committee. We have to move the general fund of \$934,500 to the right hand portion of the structure here in this sheet and also the other funds of \$10,308,000.

Senator Sorvaag: There is a lot of things going on and not committing anything to airports. My feeling is that we go with the spreadsheet. These are a little tricky to read.

Chris Kadrmas: Last session we went with each line, and then brought them over to the Senate changes.

Senator Sorvaag: Let's just go down the list. We have payroll changes. We can just go down the items if there are not objections. The first is the payroll changes that shows a negative and actually it is a zero. Explain that please.

Chris Kadrmas: The base payroll changes are the cost to continue for the salary increases that were provided this current biennium. They will be continued. There could be some reclassification adjustments in there.

Senator Sorvaag: Then we are paying 100% of the health insurance and increases for those 7 employees. And the bold?

Chris Kadrmas: That is correct. The bold is the employee share which will not be considered.

Senator Sorvaag: The increase in operating expenses, that was built in?

Chris Kadrmas: Correct, that was approved or built into Governor Dalrymple's budget.

Senator Sorvaag: Then the \$34,000 in grants was just reduced to get it to an even \$900,000?

Chris Kadrmas: Correct, that was to drop it down to \$900,000. Dalrymple's budget actually reflected a reduction of a \$100,000, but they had taken a portion of it from their allotment. It

Senate Appropriations Committee SB 2006 sub-committee February 7, 2017 Page 3

was to bring it down to the 10% budget, so we are right at \$900,000. Essentially we are reducing the education and planning grants and the increase of airport grants. That is just the agency shifting their funding around based on the anticipated funding for the biennium. That will be the federal dollars and other sources of income.

Senator Sorvaag: Your numbers show about \$35 million in federal grants.

Kyle Wanner: Our agency is expecting approximately \$1M of federal grants to be received by our agency. We are hopeful of getting approximately \$50 million per year from the federal government to airports within our state. That is why it is so critical to make sure that we can leverage the funding into our state and match those dollars with state or local funds.

Senator Sorvaag: What do you have to match, 1 for 1?

Kyle Wanner: We can match whatever we are able to. In the past, we try to match 50-50 with the local and in some cases, if the federal can provide 90% funding, then we will do 5% local. Now some projects aren't eligible for federal funding and some projects aren't receiving that 90%. They may receive only 60% from the federal government. Now we have 40% of the funding that needs to be covered either by the state or local sponsor. In those cases, we like to try and step-up as the commission and do a 60-20-20. In the case of where we don't have the funding, we can't do that. Then it will probably be 60 federal, 35 local and 5 state, if we have that funding. That is the gravity of the situation.

Senator Sorvaag: It is a tough situation without those dollars.

Senator Krebsbach: Just to clarify, I know the 8 regional airports are federally funded, but none of the others are. On the million-dollar grant money you get from federal, can that be used for both?

Kyle Wanner: We actually have 53 airports in our state that do receive federal funding. The 8 commercial service airports and along with 45 general aviation airports in the state do receive federal funding. But we do have 36 airports in the state that do not receive federal funding. So that \$1 million was grant funding that our agency will specifically asking the federal government for grants to our agency. The \$50 million is what we are trying to get for the 53 airports in the state in federal funding. We've only received 23-24M dollars annually from federal government for airport projects. We have been able to increase that up to \$50 million with addition state and local dollars, leveraging that money into our state which has been critical. Federal funding has not increased annually since 2001. Projects have gone up across the country. We have projects that we are competing against on the national scale, but because of our highly justified and critical projects that we have had and additional state funding you have provided in the pass, we can leverage that funding to a higher level. If the airport funding isn't at the level that we have seen the previous biennium's, I am not sure of the estimate of the federal funds that we may get. It may go back down to the \$24-\$25 million. Projects may have to get delayed or pushed off because we don't have the funding to match it.

Senator Sorvaag: Bismarck has a big one. What other big ones are out there excluding Dickinson and Williston?

Senate Appropriations Committee SB 2006 sub-committee February 7, 2017 Page 4

Kyle Wanner: Devils Lake is looking at a \$3-4 million runway project. Jamestown is looking at a \$3-4 million project. Fargo is looking at a \$7-8 million-dollar project. Hillsboro is looking at a \$4-5 million project. There are quite a few projects that exist around the state. Watford needs an extension of a runway. Within this packet I provided a capital improvement plan that the state puts together. We've identified \$400M worth of projects identified and hope to accommodate as many projects as possible.

Senator Sorvaag: We could draft the amendments and move forward on this.

Senator Grabinger: Moved to draft amendments.

Senator Krebsbach: Second.

Senator Sorvaag: Discussion? Roll taken.

Senator Sorvaag:.Y Senator Krebsbach: Y Senator Grabinger: Y

Senator Grabinger will carry to the committee.

Senator Sorvaag: Committee adjourned.

2017 SENATE STANDING COMMITTEE MINUTES

Appropriations Committee

Harvest Room, State Capitol

SB 2006 2/10/2017 JOB # 28185

□ Subcommittee ☐ Conference Committee

Committee Clerk Signature

Explanation or reason for introduction of bill/resolution:

A DO PASS AS AMENDED on the Aeronautics Commission.

Minutes:

1.Proposed Amendment # 17.0514.01001

Chairman Holmberg: called the Committee to order on SB 2006 at 9:30 am in the Harvest Room. All committee members were present except Senator Wanzek:. Becky Deichert, OMB and Adam Mathiak, Legislative Council were also present.

Senator Sorvaag stated there were no changes. He moved the amendment #17.0514.01001. 2nd by Senator Dever.

Chairman Holmberg: Any discussion. Call the roll on the Amendment. A Roll Call vote was taken. Yea: 13; Nay: 0; Absent: 1.

Senator Sorvaag Moved a Do Pass as Amended. 2nd by V. Chairman Bowman.

Chairman Holmberg: call the roll on a Do Pass as Amended.

A Roll Call vote was taken. Yea: 13; Nay: 0; Absent: 1. Senator Grabinger will carry the bill. The hearing was closed on SB 2006.

PROPOSED AMENDMENTS TO SENATE BILL NO. 2006

Page 1, replace lines 12 through 19 with:

"Salaries and wages	\$1,447,637	(\$14,963)	\$1,432,674
Operating expenses	2,060,380	143,810	2,204,190
Capital assets	300,000	(200,000)	100,000
Grants	<u>7,434,500</u>	(434,500)	7,000,000
Total all funds	\$11,242,517	(\$505,653)	\$10,736,864
Less estimated income	<u>10,308,017</u>	(471,153)	<u>9,836,864</u>
Total general fund	\$934,500	(\$34,500)	\$900,000
Full-time equivalent positions	7.00	0.00	7.00"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - Senate Action

	Base	Senate	Senate
	Budget	Changes	Version
Salaries and wages	\$1,447,637	(\$14,963)	\$1,432,674
Operating expenses	2,060,380	143,810	2,204,190
Capital assets	300,000	(200,000)	100,000
Grants	7,434,500	(434,500)	7,000,000
Total all funds	\$11,242,517	(\$505,653)	\$10,736,864
Less estimated income	10,308,017	(471,153)	9,836,864
General fund	\$934,500	(\$34,500)	\$900,000
FTE	7.00	0.00	7.00

Department No. 412 - Aeronautics Commission - Detail of Senate Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Health Insurance Increase ²	Adjusts Base Level Funding ³	Total Senate Changes
Salaries and wages Operating expenses Capital assets Grants	(\$34,998)	\$20,035	143,810 (200,000) (434,500)	(\$14,963) 143,810 (200,000) (434,500)
Total all funds Less estimated income	(\$34,998) (34,998)	\$20,035 20,035	(\$490,690) (456,190)	(\$505,653) (471,153)
General fund	\$0	\$0	(\$34,500)	(\$34,500)
FTE	0.00	0.00	0.00	0.00

¹ Funding is adjusted for cost-to-continue 2015-17 biennium salaries and benefit increases and for other base payroll changes.

² Funding is added for increases in health insurance premiums from \$1,130 to \$1,249 per month.

³ Base level funding is adjusted as follows:

2/10/17 Da \$143,810 2 FZ

	General Fund	Other Funds	Total
Adds funding for operating expenses		\$143,810	\$143,810
Adjusts funding for airport grants	(34,500)	800,000	765,500
Reduces capital asset funding	•	(200,000)	(200,000)
Reduces education grants		(100,000)	(100,000)
Removes planning grants		(1,100,000)	(1,100,000)
Total	(\$34,500)	(\$456,190)	(\$490,690)

2-	7-1	1
	/	
	2-	2-7-1

Senate Appropr	iations				Comr	nittee
		X Sub	ocommi	tee		
Amendment LC# or	Description:	to	drag	& amendment		
Recommendation: Other Actions:	□ Adopt Amendr□ Do Pass□ As Amended□ Place on Cons□ Reconsider	Do Not		☐ Without Committee Rec☐ Rerefer to Appropriation		ation
Motion Made By	Grobinge	e)	Se	conded By <u>Krebsba</u>	ch	
Sen	ators	Yes	No	Senators	Yes	No
Chairman Holmbe	rg			Senator Mathern		
Vice Chair Krebsb	ach	V		Senator Grabinger	Y	
Vice Chair Bowma	an	,		Senator Robinson		
Senator Erbele						
Senator Wanzek						
Senator Kilzer						
Senator Lee						
Senator Dever						
Senator Sorvaag		y				
Senator Oehlke						
Senator Hogue						
Total (Yes) _	3		No	0	,	
Absent	\mathcal{O}					
Floor Assignment						

If the vote is on an amendment, briefly indicate intent:

Date:	2-10-17
Roll Call Vote #:	1

2017 SENATE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO.

Senate Appropriations				Comr	nittee
□ Subcommittee					
Amendment LC# or Description:	17	05.	14_01001		
Recommendation: Adopt Amenda Do Pass As Amended Place on Cons Other Actions: Reconsider	nent Do Not	: Pass			ation
Motion Made By Sorvage	,	Se	conded By		
Senators	Yes	No	Senators	Yes	No
Chairman Holmberg	-		Senator Mathern	2	
Vice Chair Krebsbach	V		Senator Grabinger		
Vice Chair Krebsbach Vice Chair Bowman	V		Senator Grabinger Senator Robinson	-	
	V				
Vice Chair Bowman	V				
Vice Chair Bowman Senator Erbele	V V A				
Vice Chair Bowman Senator Erbele Senator Wanzek	N N A N N				
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer	V V A				
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag Senator Oehlke					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag Senator Oehlke					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag Senator Oehlke					
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag Senator Oehlke		No	Senator Robinson		
Vice Chair Bowman Senator Erbele Senator Wanzek Senator Kilzer Senator Lee Senator Dever Senator Sorvaag Senator Oehlke Senator Hogue		No	Senator Robinson		

If the vote is on an amendment, briefly indicate intent:

Date: _	2-	10-	17
Roll Call Vote #: _			

2017 SENATE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO.

Senate Appropr	iations			www.	_ Comr	nittee
□ Subcommittee						
Amendment LC# or	Description:					
Recommendation: Other Actions:	☐ Adopt Amenda Do Pass ☐ As Amended ☐ Place on Cons ☐ Reconsider	Do Not		☐ Without Committee Red☐ Rerefer to Appropriation☐	ns	ation
Motion Made By	Sowa	eg	Se	conded By <u>Bown</u>	ran	J
Sen	ators	Yes	No	Senators	Yes	No
Chairman Holmbe	rg	1		Senator Mathern	2	
Vice Chair Krebsb	ach .	~		Senator Grabinger	1	
Vice Chair Bowma	ın	-		Senator Robinson	3	
Senator Erbele		-				
Senator Wanzek		P				
Senator Kilzer		1				
Senator Lee		1				
Senator Dever		~				
Senator Sorvaag		1				
Senator Oehlke		~				
Senator Hogue		2				
Total (Yes)	/3		No	0		
Absent						
Floor Assignment	Gralos	inge	W			
If the vote is on an	amendment, briefly	<i>∨</i> / indicat	e intent	:		

Module ID: s_stcomrep_28_010
Carrier: Grabinger

Insert LC: 17.0514.01001 Title: 02000

REPORT OF STANDING COMMITTEE

SB 2006: Appropriations Committee (Sen. Holmberg, Chairman) recommends AMENDMENTS AS FOLLOWS and when so amended, recommends DO PASS (13 YEAS, 0 NAYS, 1 ABSENT AND NOT VOTING). SB 2006 was placed on the Sixth order on the calendar.

Page 1, replace lines 12 through 19 with:

"Salaries and wages	\$1,447,637	(\$14,963)	\$1,432,674
Operating expenses	2,060,380	143,810	2,204,190
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Total general fund	\$934,500	(\$34,500)	\$900,000
Full-time equivalent positions	7.00	0.00	7.00"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - Senate Action

	Base Budget	Senate Changes	Senate Version
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General fund	\$934,500	(\$34,500)	\$900,000
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Department No. 412 - Aeronautics Commission - Detail of Senate Changes

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Total all funds Less estimated income	(\$34,998) (34,998)	\$20,035 20,035	(\$490,690) (456,190)	(\$505,653) (471,153)
General fund	\$0	\$0	(\$34,500)	(\$34,500)
FTE	0.00	0.00	0.00	0.00

¹ Funding is adjusted for cost-to-continue 2015-17 biennium salaries and benefit increases and for other base payroll changes.

³ Base level funding is adjusted as follows:

	General Fund	Other Funds	Total
Adds funding for operating expenses		\$143,810	\$143,810

² Funding is added for increases in health insurance premiums from \$1,130 to \$1,249 per month

Com Standing Committee Report February 13, 2017 8:28AM

Module ID: s_stcomrep_28_010 Carrier: Grabinger Insert LC: 17.0514.01001 Title: 02000

Adjusts funding for airport grants	(34,500)	800,000	765,500
Reduces capital asset funding		(200,000)	(200,000)
Reduces education grants		(100,000)	(100,000)
Removes planning grants		(1,100,000)	(1,100,000)
Total	(\$34,500)	(\$456,190)	(\$490,690)

2017 HOUSE APPROPRIATIONS

SB 2006

2017 HOUSE STANDING COMMITTEE MINUTES

Appropriations Committee - Government Operations Division Medora Room, State Capitol

SB2006 3/3/2017 Recording Job# 28666

☐ Subcommittee☐ Conference Committee

Committee Clerk Signature

Explanation or reason for introduction of bill/resolution:

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota aeronautics commission.

Minutes:

Attachments A through F

Chairman Brandenburg: Opened the hearing on SB2006.

Kyle Wanner, Director, ND Aeronautics Commission: See attachments A and B.

Representative Kempenich: Does Williston get that money directly? How does the state track that?

Kyle Wanner: It gets very complex.

Kyle Wanner continued with his testimony.

Representative Kempenich: Does there need to be a commitment? What do we need to keep this moving forward?

Kyle Wanner: Governor Dalrymple put \$24.1 million in his budget for oil impact funds; \$20 million would go to Williston and \$4.1 million to Dickinson. His intention was to provide that \$20 million to Williston and then the next biennium commit an additional \$20 million. It's going to be very difficult if the full \$39 million isn't available for that airport in this biennium. If the decision is to delay funds going into 2019, the overall cost of the project could go up with the financing. There's no guarantee that that additional state funding is going to come next biennium and that could jeopardize federal funding for the project.

Representative Brabandt: What is the total price tag with everything on the Williston airport; land acquisition and everything?

Kyle Wanner: Our estimates are around \$240 million for the entire project. To completely reconstruct the current site to build up to what the new site could provide would be the current cost if not more. You would also need to close that airport for 3 summers if not more.

Vice Chairman Boehning: Who is putting all the infrastructure in to the airport? Is that being funded with this or is that a city/county partnership?

Kyle Wanner: The bypass that has been put out there is the road to connect to the new airport. New infrastructure was already being planned by the city to be placed out there. That is something that the city and county are working collaboratively on.

Vice Chairman Boehning: What is the passenger count compared to what it was?

Kyle Wanner: In 2008 and prior it was 8,000 to 10,000 passengers per year. At the peak, they reached about 120,000 to 125,000 passengers per year; these numbers just include the revenue passengers. This past year they were around 60,000 to 65,000 passengers.

Chairman Brandenburg: There's some concern about the funding coming from the city in Williston. We want to make sure the land is sold off so you get some money there and they don't make a bigger golf course out of it.

Kyle Wanner: Those conversations should continue. They are working very hard to find the best value out of that site.

Chairman Brandenburg: We know we need to help out but we need to make sure there's a balance to that also.

Representative Vigesaa: In a large project like this, what role does the commission play in this?

Kyle Wanner: There is a local component, state component and federal component. The federal money doesn't come free; there are specific grant assurances that you have to oblige by. Our role is to work with the airport and to advise them of the best route possible. We also provide the view from the state and we provide infrastructure grant funding. Most of our budget is comprised of airport infrastructure grant funding and that's about \$7 million for the upcoming biennium.

Representative Vigesaa: What percentage does the commission play and what percentage do the locals play?

Kyle Wanner: I would say the locals have the largest part. The city council decides whether or not to move on the airport.

Kyle Wanner continued with his testimony.

Representative Brabandt: Were bids open this week?

Kyle Wanner: If they have been, I haven't been made aware. Bids were open last fall for dirt work and phase 1 of their paving project. Costs came down last fall of \$10 million for those projects.

Representative Brabandt: The terminal itself has not been bid?

Kyle Wanner: Correct. The city has decided to go under construction management; CMAR (Construction Management at Risk) to help with the design work.

Representative Brabandt: Who is the construction manager?

Kyle Wanner: I'm not sure. I think that's something they're looking at right now.

Representative Nathe: Will the Williston airport be built to the same specifications as Bismarck? Will they be able to handle the same size planes or bigger planes? What kind of planes will be able to fly in and out of there?

Kyle Wanner: Williston will not be built to the same scale of Bismarck. It doesn't handle the same traffic as Bismarck. We will build the runway adequately to accommodate 50 and 70 seat jets.

Kyle Wanner continued with his testimony.

Representative Brabandt: Who were the top 4 boardings, as far as airports, in 2016?

Kyle Wanner: Fargo is always our top airport.

Representative Brabandt: How many boardings?

Kyle Wanner: It was about 340,000 annually. Bismarck is number 2 with 270,000 and then it would be Minot and Grand Forks.

Representative Brabandt: What were Minot's boardings in 2016?

Kyle Wanner: I think it was 150,000. In Minot 2008 and prior, were about 70,000 passengers annually per year. In 2014 they were 240,000 passengers.

Representative Nathe: Do you see any big projects for Fargo or Bismarck after Williston as we go forward?

Kyle Wanner: Yes. There are a lot of big projects happening at the same time. Bismarck has a \$70 million project over the next 3 years. The FAA is not providing 90% funding of that project; it would be 50% or \$35 million; there's a \$35 million gap that the local or the state has to come up with. We have 89 airports in the state.

Kyle Wanner continued with his testimony.

Representative Brabandt: Can you give us a percentage on the Williston airport of what will be provided by the federal, state and local?

Kyle Wanner: What the airport has been anticipating is a \$240 million project. We anticipate bringing in \$120 million federal, \$60 million state and local would make up the difference with the sale of their airport land and with whatever is remaining after that.

Representative Brabandt: So all the funding is federal or state?

Kyle Wanner: No. From federal and state would be \$180 million; you would still have a gap of \$60 million. The estimated sale of the land is about \$20 million and the local would be about \$40 million.

Vice Chairman Boehning: You were talking about the Bismarck airport. If we don't have the funding, what are their funding sources that are available?

Kyle Wanner: A large part of their revenue source is their parking. They do have some reserves that they have saved up for this large project; but it's not enough to cover the \$35 million. They're going to have to bond, take out loans, they can use passenger facility charges for every passenger; they can charge \$4.50. They have many projects coming up after this runway project.

Kyle Wanner continued with his testimony.

Vice Chairman Boehning: With all of those stations, is that information being used by entities besides aeronautics?

Kyle Wanner: This is very good information for the public in general not just the aviation community.

Kyle Wanner continued with his testimony.

Representative Nathe: Of the \$950 million for the 10 year projection, is Williston's \$250 million in that?

Kyle Wanner: Yes.

Representative Nathe: That's probably in the 1-5 year?

Kyle Wanner: Correct.

Kyle Wanner continued with his testimony.

Representative Nathe: You expressed your frustration with the federal involvement. Have you talked to the federal delegation as far as trying to help us?

Kyle Wanner: Both Senators Hoeven and Heitkamp have both been very involved with having meetings with different aviation communities. They're very aware of FAA reauthorization and the challenges our airports are having. They're very supportive of moving forward with legislation that increases airport improvement.

Kyle Wanner continued with his testimony.

Representative Nathe: Is that a federal cap?

Kyle Wanner: Yes.

Kyle Wanner continued with his testimony.

Vice Chairman Boehning: What's the aviation fuel tax? How much is it?

Kyle Wanner: We currently tax \$.08 per gallon.

Vice Chairman Boehning: Is that refundable?

Kyle Wanner: It is only refundable if the gallons are \$2.00 or less; then you can ask for a refund so you're only paying 4% of the purchase price. That is something that is potentially being changed and is being looked at in SB2049.

Representative Vigesaa: Looking at the engrossed bill and the reduction of \$200,000.00 in capital assets. Could you explain what that was?

Kyle Wanner: That was our recommendation from our agency. Each biennium we look at different projects that we could utilize with that line item. This biennium, we did not need the \$300,000.00; so we recommended the reduction.

Mathew Remynse, President, Airport Association of North Dakota: See testimony attachment C.

Vice Chairman Boehning: On the mil levies for the cities and counties, are you looking at doing an authority?

Mathew Remynse: That bill is SB2200. There are already capital and mil levies set up for cities and counties and it identifies the projects they can use that for; the airports are not a part of that. The language we are working to get included in century code would allow airports to have their projects funded through the capital mil levies.

Vice Chairman Boehning: In my home town they set up an ambulance districts which takes in jurisdiction over more than one city. If you're close to a county line, some people on the other side of the county line would probably use it more than the other part of the county. How are you setting that up?

Mathew Remynse: There are only 7 or 8 county airports; the rest are city airports or airport authorities. If they were to issue a capital mil levy, it would only be assessed to the city.

Vice Chairman Boehning: What is the cap on the mil levy for airports?

Mathew Remynse: The operational mil levy that's in the airport authorities act is 4 mils. SB2200 would allow an airport to work with a city or county governing body to access their

capital mils levy. The century code currently has 10 mils; before you'd have to go for a vote for counties; and for the city, currently 10 mils from the capital mil levy need to be voted on. There's language in SB2200 that would change that.

Greg Haug, Director, Bismarck Airport: See testimony attachments D and E.

Vice Chairman Boehning: Why is the federal government only giving 53% versus the 90%? Is there not enough money in that funding source?

Greg Haug: The Great Lakes Region, which we are a part of, get allocated a certain amount in a year's time or through their authorization appropriation from the federal government. They have high priority projects throughout the region and this is all that they could come up with at this time for Bismarck. We received over 81% funding in our terminal.

Representative Brabandt: Your airport is about 15 years old, how old is the runway that needs replacement?

Greg Haug: Some of the pavement dates back to the 1950's. We've done overlays on it because it's an asphalt runway. It's starting to deteriorate from underneath. We're planning on building a concrete runway this time.

Representative Vigesaa: What are your cash reserves? What current level is that at today?

Greg Haug: They are \$6 million.

Representative Vigesaa: Can you explain what the process is in going to the city?

Greg Haug: The airport has been able to run without any support from the city for years. The city of Bismarck has had a policy of not using mil levies for annual airport funding. We run the airport like a business. They've committed over \$10 million through their budget process.

Representative Brabandt: What is your current debt load?

Greg Haug: We don't have any.

Kelly Braun, Manager, Dickinson Airport: Testified in support of the Dickinson airport project.

Rodney Schaaf, Board Chairman, Bowman Regional Airport: See testimony attachment F.

Vice Chairman Boehning: With the new military flight area, has that impacted you a lot out there?

Rodney Schaaf: Yes, we've fought that for years; because Bowman and Baker, MT are under area 3. We had our federal delegation involved. We had the department of defense and the FAA out to our area.

Representative Nathe: How are those discussions going with working with the city and their cash reserves to make up some of the shortfall? What's the dollar amount you're looking at with them?

Greg Haug: The city commission made a commitment in their 2017 budget of \$10 million to \$11 million for the airport. We're still hoping for some pretty good support from the state.

Vice Chairman Boehning: On the Grand Forks airport planning they're looking at doing a major runway expansion or reconstruction?

Kyle Wanner: Their main runway is to the point where it needs to be completely reconstructed. They probably don't want to complete reconstruct what's there. They could build a new runway to the left and turn their current runway into a parallel taxi way. The air traffic control tower is really pushing for the FAA and the airport to consider expanding their crosswind runway. Grand Forks is always in the top 25 busiest airports in our country.

Kyle Wanner continued with his testimony.

Vice Chairman Boehning: Are there landing fees?

Kyle Wanner: There aren't landing fees associated with UND Aerospace; but they do have other related fees that they pay to the airport.

Vice Chairman Boehning: Closed the hearing.

2017 HOUSE STANDING COMMITTEE MINUTES

Appropriations Committee - Government Operations Division Medora Room, State Capitol

SB2006 3/16/2017 Recording Job# 29361

☐ Subcommittee☐ Conference Committee

Committee Clerk Signature	lin'
Explanation or reason for introduction of bill/re	esolution:
A BILL for an Act to provide an appropriation for de aeronautics commission.	efraying the expenses of the North Dakota
Minutes:	

Chairman Brandenburg: Opened the hearing on SB2006.

Representative Kempenich: Is there any general fund money in here?

Kyle Wanner, Director, ND Aeronautics Commission: There is \$900,000.00 of general fund.

Representative Kempenich: It goes to airports that aren't federally funded?

Kyle Wanner: The \$900,000.00 of general fund appropriation goes to the airport grant line item. It becomes a funding that airports can apply to around the state and receive funding for projects and leveraging federal funds.

Representative Kempenich: Can all airports access federal funds?

Kyle Wanner: Approximately 54 airports are eligible to receive federal funds. The state funds can also help projects that are ineligible to receive federal funds as well as airports that are completely ineligible to receive federal funds.

Representative Kempenich: It looks like the Senate took out \$34,000.00 of the general fund?

Kyle Wanner: Yes. That was the 10% reduction.

Chairman Brandenburg: The \$900,000.00 would bring in \$18 million of federal funds when you match it. Correct?

Kyle Wanner: Correct. We're anticipating \$100 million of federal grants.

Chairman Brandenburg: That funding is not in this budget.

Kyle Wanner: Some of that funding discretionary wise could still be granted to the Bismarck airport.

Representative Kempenich: Does the Bismarck airport kind of act like a clearing house for federal money? Does that go directly to the airports? Who gets the federal money? That doesn't run through your operation does it?

Kyle Wanner: We compete federally for dollars; so Congress has to appropriate and authorize funding. They've authorized about \$3.2 billion annually. We also compete regionally, we're in the Great Lakes Region. There's only so much money to go around. The 54 airports in our state apply on a yearly basis for those funds; they are granted those funds. They also apply to the state to match those grants.

Vice Chairman Boehning: In the new budget that Trump just proposed, was there any more money in his budget for aeronautics?

Kyle Wanner: I'm not certain if there is any federal aviation dollars in that budget. Congress does need to authorize funding beyond April to keep our airport program up and running.

Chairman Brandenburg: What's going on with the Williston situation? What kind of plan do we have for the \$32 million?

Kyle Wanner: We've been working on that project since 2011. We're faced with two options; either reconstruct in place and shut the airport down for three years for \$230 million to \$250 million, or relocate to a different site. The sale of the current site goes into the proceeds of the new site. The federal government has already contributed \$54 million to the project, land has already been purchased. They're beginning dirt work this spring. The state of North Dakota was looking at contributing \$59 million to \$60 million in total to the project.

Chairman Brandenburg: Is that \$54 million federal money?

Kyle Wanner: Correct.

Chairman Brandenburg: How much is committed for the total by the feds?

Kyle Wanner: We're hoping to receive \$20 million to \$25 million of federal funding this year and another \$20 million to \$25 million the following year. The year after that there may be an opportunity for some additional funds.

Chairman Brandenburg: So there's \$104 million to this point; not all the money is there but it's been committed.

Kyle Wanner: It's never guaranteed, it's the verbal commitment that it's in their funding.

Chairman Brandenburg: That leaves \$128 million left and \$60 million for the state; which leaves another \$68 million left by Williston.

Kyle Wanner: That's about right and then that leaves the sale of the land; we don't know how much those dollars are going to be. It could be around \$20 million.

Representative Kempenich: I think that's what the underlying questions is; how the land of the old airport is handled. In this biennium we had \$40 million and that didn't show up; I think we've spent about \$20 million already on the state side.

Kyle Wanner: \$60 million was appropriated in the 2011-2013 biennium for airports; \$20 million went to Williston and they haven't expended all those dollars. I believe there's about \$14 million that we specifically applied to the terminal. The current biennium that we're in there was \$48 million to airports; of that about \$3 million was granted before we were notified that that oil impact fund was not going to fill. To date there are \$45 million that the airport community has been requesting the legislature consider re-honoring that request; because those dollars were planned to be utilized.

Chairman Brandenburg: They were committed and based on triggers and the triggers never hit.

Kyle Wanner: That's correct.

Chairman Brandenburg: So you're somewhere in that \$40 million.

Kyle Wanner: For Williston.

Representative Brandenburg: How many acres does the existing Williston airport cover? Has the terminal building itself been bid yet?

Kyle Wanner: It's about 1,500 acres.

Representative Brabandt: The terminal building hasn't been bid yet?

Kyle Wanner: This morning I interviewed two different construction companies to do a construction management at risk for that building. As soon as one is selected, they will negotiate the final price.

Vice Chairman Boehning: Is the \$20 million sale included in the Williston share buildout of the new airport?

Kyle Wanner: That would be correct.

Vice Chairman Boehning: Out of their \$68 million, \$20 million will come from the sale?

Chairman Brandenburg: That 1,500 acres is going to take time to sell.

Representative Kempenich: I think by the end of the day there will be no profit.

Vice Chairman Boehning: One of the concerns I have is budgeting \$20 million on the sale. So basically all you have is a piece of land?

Kyle Wanner: You might have some value with the pavement. It really is the location that's key. They did hire a developer to look at the best way to develop this airport.

Vice Chairman Boehning: If they only make a profit of \$10 million, is the city of Williston going to make that up on their own? Are they going to come back here and want another \$10 million?

Kyle Wanner: To my knowledge they would not come back to the state if the state is able to provide what was committed to date. They would figure it out.

Vice Chairman Boehning: Can we get something in writing from them?

Kyle Wanner: If we need to get the mayor, the city administrator, the city council to come down and meet we can do that.

Vice Chairman Boehning: We don't need that; we just want something in writing.

Representative Brabandt: Wasn't the existing terminal building in Williston remodeled just recently?

Kyle Wanner: I believe it was about 10 years ago.

Representative Brabandt: Something tells me it was remodeled within the last year.

Kyle Wanner: It was in 2007.

Representative Vigesaa: I was looking back on the historic of the general fund and for three bienniums it was \$550,000.00 per biennium. In the last biennium it went to \$934,000.00. Was there any particular reason it jumped that much or was it because we had the money at that time that the increase was granted?

Kyle Wanner: There's never enough funding for airport grants. The request has always been to help increase some sort of funding to help with our airport projects.

Representative Nathe: In related major legislation HB1217 where the fees are increased; what's the status of the bill and where does that money go to when you collect that fee?

Kyle Wanner: That bill passed both houses. That bill removes a discount on aircraft owners when they apply for registration fees. That hasn't changed since 1987.

Representative Nathe: Where does that money go?

Kyle Wanner: It goes to the special fund for the aeronautics commission to utilize on airport infrastructure project.

Representative Nathe: How much does that generate?

Kyle Wanner: Currently it generates about \$90,000.00 per year and that would increase to about \$160,000.00 per year.

Representative Nathe: What about SB2049 that has to do with aircraft excise tax? Is that an increase in the fuel tax?

Kyle Wanner: There's no fiscal note on that bill so it doesn't affect our financial status. It improves the language in the bill. With the aeronautics commission special funds, we've established the aviation fuel tax and excise tax. There was different language that conflicts; we combined it all to establish a fund to be utilized for these purposes.

Representative Nathe: What does the aviation fuel tax generate for you per year for the special fund?

Kyle Wanner: We're estimating \$3.7 million for the biennium.

Representative Brabandt: Could you explain the increase in the operating expenses of \$143,000.00?

Kyle Wanner: The operating expenses went down from last biennium. The reason that line went up was to accommodate the ability bring in federal dollars for different studies.

Vice Chairman Boehning: Who owns the golf course at the end of the airport?

Kyle Wanner: Williston owns that.

Vice Chairman Boehning: Does the airport own that land then?

Kyle Wanner: Correct.

Chairman Brandenburg: Closed the hearing.

2017 HOUSE STANDING COMMITTEE MINUTES

Appropriations Committee – Government Operations Division Medora Room, State Capitol

SB2006 3/28/2017 Recording Job# 29749

☐ Subcommittee
☐ Conference Committee

□ Comerence Committee				
Committee Clerk Signature				
Explanation or reason for introduction of bill/resolution:				
A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota aeronautics commission.				
Minutes:				
Chairman Brandenburg: Opened the hearing on SB2006.				
Representative Brabandt: Explained amendment 17.0514.02001.				
Representative Brabandt: Made a motion to move amendment 17.0514.02001.				
Vice Chairman Boehning: Seconded the motion.				
Roll Call Vote: 7 Yeas 0 Nays 0 Absent.				
Motion Carried.				
Representative Brabandt: Made a motion for a "Do Pass as Amended".				

Representative Kempenich: The temporary vacant FTE, you're probably going to have to have an explanation as to why that didn't change.

Roll Call Vote: 7 Yeas 0 Nays 0 Absent.

Motion Carried

Chairman Brandenburg: Closed the hearing.

Representative Vigesaa: Seconded the motion.

2017 HOUSE STANDING COMMITTEE MINUTES

Appropriations Committee

Roughrider Room, State Capitol

SB 2006 March 29th 2017 29815

☐ Subcommittee☐ Conference Committee

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Explanation or reason for introduction of bill/resolution:

A BILL for an Act to provide an appropriation for defraying the expenses of the North Dakota aeronautics commission.

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Minutes:	

1:30 Representative Brabandt: Reviewing budget and amendment 17.0514.02001 for SB 2006 which is the aeronautics commission. Pretty simple budget, total budget of \$10,735,412.

5:35 Chairman Delzer: Did they take into consideration bill that have passed earlier in the session?

Representative Kempenich: HB 1217, I don't think that put that into this budget.

Chairman Delzer: Did they need appropriation authority to cover that? Why are we still at 900 thousand on general fund, I see they reduced it by 34 thousand, that's only about 31/2%.

Representative Kempenich: There was actually more in the general fund budget, there was planning grants of 1.1 million and then we did reduce some of the others. That goes to a lot of the smaller airports.

Representative Brabandt: The general fund last biennium was 1 million dollars and then the governor reduced that to 934 thousand and now it's reduced to 912 thousand, that's used to leverage the possibility of 18 million dollars in federal funds.

Chairman Delzer: Any discussion on if that doesn't come, where are they going to use this 900 thousand? Representative Streyle did say that other bill was signed by Governor Burgum. I think that was 150 thousand.

Representative Kempenich: That they added in on the senate side, they added 143 thousand increase funding in operating expenses.

9:00 Representative Brabandt: There is one position that is open right now.

House Appropriations Committee SB 2006 March 29th 2017 Page 2

Representative Kempenich: It's secretarial and is filled by a temporary person right now.

Chairman Delzer: Are they going to continue as a temporary? I ask about the 900 thousand because, when we changed this from a general fund to a special funded agency it was said that there should not need to be any general fund. And as things are growing we keep giving them more.

Representative Streyle: The position that they are talking about has been vacant for 14 months, and a line item of 186 thousand dollars.

Representative Kempenich: But there is a note there that it's filled with a temporary.

Chairman Delzer: Further discussion? So if they bring in more money I am not sure if they can spend it or not. We did pass that other bill first.

Representative Brabandt: Motion to move Amendment 17.0514.02001

Representative Boehning: Was that a total increase or was that a total?

Chairman Delzer: Fiscal note shows that is an increase. We have a motion to amend with .02001 is there a second?

Representative Kempenich: Second

Voice vote, All in favor, Motion carries

Representative Streyle: We know it was signed so I think we should give them spending authority and then we should look at removing some general fund. And maybe go further, with some sort of study for the Williston Airport project, I don't think it's been run properly at this point.

Representative Kempenich: I don't know if this is the place to do that.

Representative Schmidt: When these agencies say they need these funds secure federal funds, are these flat rate funds or are they matching funds?

Representative Kempenich: It's a 90/10, we asked how solid they were on that federal funding and they think they are getting 18 million.

Chairman Delzer: Almost all of that 18 million could be matched?

Representative Kempenich: I think a good chunk of it goes to those airports that don't qualify for federal money.

Chairman Delzer: Further discussion?

Representative Monson: Make a motion to further ament to increase spending authority of 150 thousand based on HB 1217.

House Appropriations Committee SB 2006 March 29th 2017 Page 3

Representative Kempenich: Second

Brady Larson, Legislative Council: Would you like all that in the grants line item?

Chairman Delzer: I would think that should go to the grants line item. Further discussion?

Voice vote, all in favor, motion carries

Chairman Delzer: Further amendments?

Representative Streyle: Make a motion to remove 150 thousand from general fund.

Representative Schmidt: Second

Representative Boehning: I am afraid we will lose matching funds.

Representative J. Nelson: On the green sheets, what was the project at the Peace

Garden?

Representative Kempenich: It was to upgrade the terminal a little bit, it's a shack with a

toilet and a bench.

Voice vote, All in favor, Roll Call Vote was requested

A Roll Call vote was taken. Yea: 9 Nay: 9 Absent: 3

Motion Failed

Representative Brabandt: I will make a motion to Do Pass as Amended.

Representative Delmore: Second

Chairman Delzer: Further discussion?

A Roll Call vote was taken. Yea: 15 Nay: 3 Absent: 3

Motion Carries

Representative Brabandt will carry the bill

Fiscal No. 1

Prepared by the Legislative Council staff for House Appropriations - Government Operations Division Committee

March 20, 2017

PROPOSED AMENDMENTS TO ENGROSSED SENATE BILL NO. 2006

Page 1, replace line 12 with:

"Salaries and wages \$1,447,637 (\$16,415) \$1,431,222"

Page 1, replace lines 16 and 17 with:

"Total all funds \$11,242,517 (\$507,105) \$10,735,412 Less estimated income 10,308,017 (472,605) 9,835,412"

Page 1, after line 19, insert:

"SECTION 2. HEALTH INSURANCE INCREASE. The salaries and wages line item in section 1 of this Act includes the sum of \$18,583 from other funds for increases in employee health insurance premiums from \$1,130 to \$1,241 per month."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - House Action

	Base	Senate	House	House
	Budget	Version	Changes	Version
Salaries and wages	\$1,447,637	\$1,432,674	(\$1,452)	\$1,431,222
Operating expenses	2,060,380	2,204,190		2,204,190
Capital assets	300,000	100,000		100,000
Grants	7,434,500	7,000,000		7,000,000
Total all funds	\$11,242,517	\$10,736,864	(\$1,452)	\$10,735,412
Less estimated income	10,308,017	9,836,864	(1,452)	9,835,412
General fund	\$934,500	\$900,000	\$0	\$900,000
FTE	7.00	7.00	0.00	7.00

Department No. 412 - Aeronautics Commission - Detail of House Changes

	Adjusts Funding for Health Insurance Increases¹	Total House Changes
Salaries and wages Operating expenses Capital assets Grants	(\$1,452)	(\$1,452)
Total all funds Less estimated income	(\$1,452) (1,452)	(\$1,452) (1,452)
General fund	\$0	\$0
FTE	0.00	0.00

¹ Funding for employee health insurance is adjusted to reflect the updated premium amount of \$1,241 per month.
A section is added identifying the cost of the health insurance premium increase.

17.0514.02002 Title.03000 Fiscal No. 2 Prepared by the Legislative Council staff for House Appropriations Committee
March 30, 2017

PROPOSED AMENDMENTS TO ENGROSSED SENATE BILL NO. 2006

Page 1, replace line 12 with:

"Salaries and wages \$1,447,637 (\$16,415) \$1,431,222"

Page 1, replace lines 15 through 17 with:

 "Grants
 7,434,500
 (284,500)
 7,150,000

 Total all funds
 \$11,242,517
 (\$357,105)
 \$10,885,412

 Less estimated income
 10,308,017
 (322,605)
 9,985,412"

Page 1, after line 19, insert:

"SECTION 2. HEALTH INSURANCE INCREASE. The salaries and wages line item in section 1 of this Act includes the sum of \$18,583 from other funds for increases in employee health insurance premiums from \$1,130 to \$1,241 per month."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - House Action

	Base Budget	Senate Version	House Changes	House Version
Salaries and wages Operating expenses Capital assets Grants	\$1,447,637 2,060,380 300,000 7,434,500	\$1,432,674 2,204,190 100,000 7,000,000	(\$1,452) 150,000	\$1,431,222 2,204,190 100,000 7,150,000
Total all funds Less estimated income	\$11,242,517 10,308,017	\$10,736,864 9,836,864	\$148,548 148,548	\$10,885,412 9,985,412
General fund	\$934,500	\$900,000	\$0	\$900,000
FTE	7.00	7.00	0.00	7.00

Department No. 412 - Aeronautics Commission - Detail of House Changes

Salaries and wages Operating expenses	Adjusts Funding for Health Insurance Increases¹ (\$1,452)	Adds Funding for Grants ²	Total House Changes (\$1,452)
Capital assets Grants		150,000	150,000
Total all funds Less estimated income	(\$1,452) (1,452)	\$150,000 150,000	\$148,548 148,548
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding for employee health insurance is adjusted to reflect the updated premium amount of \$1,241 per month.

 2 Special funds spending authority is increased by \$150,000 as a result of House Bill No. 1217. House Bill No. 1217 removes a discount of up to 50 percent on aircraft registration fees.

A section is added identifying the cost of the health insurance premium increase.

Page No. 2

Date: 03/28/17 Roll Call Vote #: 1

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB2006

House Appropriations - Government Operations Division						
		□ Sub	ocommi	ttee		
Amendment LC# o	r Description: 17.05	14.0200)1			
Recommendation: Adopt Amendment Do Pass Do Not Pass Rerefer to Appropriations Place on Consent Calendar Other Actions: Recommendation Recommendation Recommendation Recommendation						
Motion Made By Representative Brabandt Seconded By Vice Chairman Boehning						
	entatives	Yes	No	Representatives	Yes	No
Chairman Brand		X		Representative Delmore	X	
Vice Chairman I		X				
Representative		X				
Representative		X				
Representative		Х				
Representative	Vigesaa	Х				

					-	
					-	
Total Yes	7		No	0		
Absent 0						
Floor Assignment						

If the vote is on an amendment, briefly indicate intent: Motion Carried.

Date: 03/28/17 Roll Call Vote #: 2

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB2006

House Appropriations - Government Operations Division						
		☐ Sub	ocommi	ttee		
Amendment LC# or	Description:					
Recommendation: ☐ Adopt Amendment ☐ Do Pass ☐ Do Not Pass ☐ Without Committee Recommendation ☐ As Amended ☐ Rerefer to Appropriations ☐ Place on Consent Calendar Other Actions: ☐ Reconsider ☐						ation
Motion Made By Representative Brabandt Seconded By Representative Vigesaa						
Represe	entatives	Yes	No	Representatives	Yes	No
			V			
Chairman Brande		Х		Representative Delmore	X	
Vice Chairman B	oehning	Χ		Representative Delmore	X	
Vice Chairman B Representative B	oehning Brabandt	X		Representative Delmore	X	
Vice Chairman B Representative B Representative N	Boehning Brabandt Nathe	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative K	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative B Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X		Representative Delmore	X	
Vice Chairman B Representative E Representative N Representative N Representative N	Boehning Brabandt Nathe Kempenich	X X X X	No	Representative Delmore	X	
Vice Chairman B Representative E Representative N Representative N Representative N	Boehning Brabandt Nathe Kempenich Vigesaa	X X X X	No		X	

If the vote is on an amendment, briefly indicate intent: Motion Carried

Date: 3/29/2017 Roll Call Vote #: 1

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB 2006

House	Appropri	ations				Comr	nittee		
☐ Subcommittee									
Amendm	Amendment LC# or Description: 17.0514.02001								
Recommendation: Adopt Amendment Do Pass Do Not Pass Without Committee Recommendation As Amended Rerefer to Appropriations Place on Consent Calendar Other Actions:									
Motion Made By Representative Brabandt Seconded By Representative Kempenich									
	Represe	entatives	Yes	No	Representatives	Yes	No		
Chairr	nan Delze	er							
Repre	sentative	Kempenich			Representative Streyle				
		Boehning			Representative Vigesaa				
		Brabandt							
-		Brandenburg	-						
	esentative			0	Representative Boe				
	esentative		, 1		Representative Delmore				
		Martinson	11		Representative Holman				
	esentative		1		Nopresentative rieman.				
	sentative		11						
-	esentative		4		(IX)				
		J. Nelson		1	10				
	sentative				4				
-	sentative								
	sentative								
	sentative								
Ixebie	Scritative	Scrimit							
Total	(Yes) _			No					
Absent									
Floor As	ssignment								

Date: 3/31/2017 Roll Call Vote #: 2

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB 2006

Hous	se	Appropri	ations				Comr	nittee	
				☐ Sub	ocommi	ttee			
Ame	endment	LC# or De	scription: Furt	her ame	nd, give	e spending authority of 150 tho	usand b	ased o	n HB 1217
	commend		□ Adopt Amendn□ Do Pass□ As Amended□ Place on Cons□ Reconsider	Do Not		□ Without Committee Reco□ Rerefer to Appropriations□		ation	
Mot	tion Mad	de By	Representative Mo	nson		Seconded By Repres	entativ	e Kem	penich
		Represe	entatives	Yes	No	Representatives	Yes	No	
	Chairn	nan Delze	er						
	Repres	sentative	Kempenich			Representative Streyle			
			: Boehning			Representative Vigesaa			
	Repres	sentative	: Brabandt						
	Repres	sentative	Brandenburg						
	Repre	esentative	Kading	0		Representative Boe			
	Repre	esentative	Kreidt \	10		Representative Delmore			
	Repre	sentative	Martinson	O	1	Representative Holman			
	Repre	esentative	Meier						
	Repres	sentative	Monson		1				
	Repre	esentative	Nathe						
	Repre	esentative	J. Nelson						
	Repres	sentative	Pollert						
	Repre	sentative	Sanford						
	Repres	sentative	Schatz						
	Repres	sentative	Schmidt						
	Total								
	Absent Floor As	signment							

Date: 3/29/2017 Roll Call Vote #: 3

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB 2006

House Appropria	itions				Comr	mittee	
		☐ Sub	commi	ittee			
Amendment LC# or Description: Remove 150 thousand dollars							
Recommendation: Adopt Amendment Do Pass Do Not Pass Rerefer to Appropriations Place on Consent Calendar Other Actions: Adopt Amendment Recommendation Recommendation Recommendation Recommendation Recommendation Recommendation							
Motion Made By _	Representative	Streyl	e (Seconded By Representa	ative S	chmidt	
Represei	ntatives	Yes	No	Representatives	Yes	No	
Chairman Delzei		X	110	Representatives	100	110	
Representative k			Χ	Representative Streyle	Х		
Representative:			Χ	Representative Vigesaa	Х		
Representative:			Χ				
Representative E	Brandenburg	Α					
Representative	Kading	Α		Representative Boe	Х		
Representative	Kreidt		Χ	Representative Delmore		Х	
Representative N	Martinson	Χ		Representative Holman		Х	
Representative	Meier	Α					
Representative N	Monson	X					
Representative	Nathe		Χ				
Representative			Χ				
Representative F		Χ					
Representative S		Χ					
Representative S			X				
Representative S	Schmidt	Χ					
Total (Yes)	9		No	9			
Absent 3							
Floor Assignment							

Date: 3/29/2017 Roll Call Vote #: 4

2017 HOUSE STANDING COMMITTEE ROLL CALL VOTES BILL/RESOLUTION NO. SB 2006

House _/	Appropri	ations				Com	mittee	
			☐ Sub	ocommi	ittee			
Amondmon	t I C# or	Description:						
Amendmen	Amendment LC# or Description:							
Recommendation: ☐ Adopt Amendment ☐ Do Pass ☐ Do Not Pass ☐ Without Committee Recommendation ☐ Rerefer to Appropriations ☐ Place on Consent Calendar ☐ Reconsider ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐								
Motion Ma	ide By	Representative	e Braba	ndt_	Seconded By Represent	ative D	elmore	
	Represe	entatives	Yes	No	Representatives	Yes	No	
Chairma				X				
Represe	entative	Kempenich	Х		Representative Streyle		X	
		Boehning	Х		Representative Vigesaa	Х		
Represe	entative:	Brabandt	Х					
Represe	entative	Brandenburg	Α					
Represe	entative	Kading	Α		Representative Boe	Х		
Represe	entative	Kreidt	Х		Representative Delmore	Х		
Represe	entative	Martinson	X		Representative Holman	Х		
Represe	entative	Meier	Α					
Represe	entative	Monson	Х					
Represe	entative	Nathe	Х					
Represe	entative	J. Nelson	Х					
Represe	entative	Pollert	X					
Represe	entative	Sanford	Х					
Represe	entative	Schatz	X					
Represe	entative	Schmidt		Χ				
Total	(Yes) _	15		No	3			
Absent _	3							
Floor Assig	gnment	Representative	Braba	ndt				

Module ID: h_stcomrep_57_011 Carrier: Brabandt

Insert LC: 17.0514.02002 Title: 03000

REPORT OF STANDING COMMITTEE

SB 2006, as engrossed: Appropriations Committee (Rep. Delzer, Chairman) recommends AMENDMENTS AS FOLLOWS and when so amended, recommends DO PASS (15 YEAS, 3 NAYS, 3 ABSENT AND NOT VOTING). Engrossed SB 2006 was placed on the Sixth order on the calendar.

Page 1, replace line 12 with:

"Salaries and wages \$1,447,637 (\$16,415) \$1,431,222"

Page 1, replace lines 15 through 17 with:

 "Grants
 7,434,500
 (284,500)
 7,150,000

 Total all funds
 \$11,242,517
 (\$357,105)
 \$10,885,412

 Less estimated income
 10,308,017
 (322,605)
 9,985,412"

Page 1, after line 19, insert:

"SECTION 2. HEALTH INSURANCE INCREASE. The salaries and wages line item in section 1 of this Act includes the sum of \$18,583 from other funds for increases in employee health insurance premiums from \$1,130 to \$1,241 per month."

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - House Action

	Base Budget	Senate Version	House Changes	House Version
Salaries and wages Operating expenses Capital assets	\$1,447,637 2,060,380 300,000	\$1,432,674 2,204,190 100,000	(\$1,452)	\$1,431,222 2,204,190 100,000
Grants	7,434,500	7,000,000	150,000	7,150,000
Total all funds Less estimated income	\$11,242,517 10,308,017	\$10,736,864 9,836,864	\$148,548 148,548	\$10,885,412 9,985,412
General fund	\$934,500	\$900,000	\$0	\$900,000
FTE	7.00	7.00	0.00	7.00

Department No. 412 - Aeronautics Commission - Detail of House Changes

	Adjusts Funding for Health Insurance Increases ¹	Adds Funding for Grants ²	Total House Changes
Salaries and wages Operating expenses Capital assets Grants	(\$1,452)	150,000	(\$1,452) 150,000
Total all funds Less estimated income	(\$1,452) (1,452)	\$150,000 150,000	\$148,548 148,548
General fund	\$0	\$0	\$0
FTE	0.00	0.00	0.00

¹ Funding for employee health insurance is adjusted to reflect the updated premium amount of \$1,241 per month.

Module ID: h_stcomrep_57_011 Carrier: Brabandt Insert LC: 17.0514.02002 Title: 03000

² Special funds spending authority is increased by \$150,000 as a result of House Bill No. 1217. House Bill No. 1217 removes a discount of up to 50 percent on aircraft registration fees.

A section is added identifying the cost of the health insurance premium increase.

(1) DESK (3) COMMITTEE Page 2 h_stcomrep_57_011

2017 TESTIMONY

SB 2006

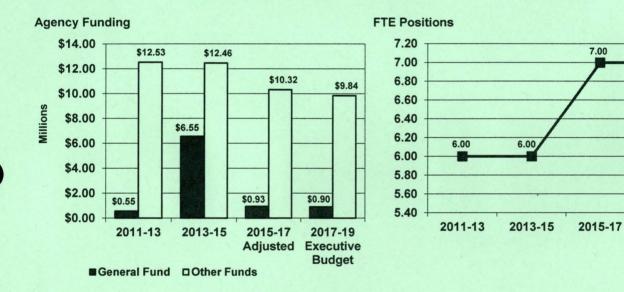
Department 412 - Aeronautics Commission Senate Bill Nos. 2006 and 2066

Executive Budget Comparison to Prior Biennium Appropriations

Excounte Bauget companied to 1 not Biominant Appropriations									
	FTE Positions	General Fund	Other Funds Total						
2017-19 Executive Budget	7.00	\$900,000	\$9,842,642	\$10,742,642					
2015-17 Adjusted Legislative Appropriations ¹	7.00	934,500	10,322,827	11,257,327					
Increase (Decrease)	0.00	(\$34,500)	(\$480,185)	(\$514,685)					
¹ The 2015-17 biennium agency appropriation a	¹ The 2015-17 biennium agency appropriation amounts reflect general fund budget reductions made in August 2016.								

Ongoing and One-Time General Fund Appropriations

	Ongoing General Fund Appropriation	One-Time General Fund Appropriation	Total General Fund Appropriation
2017-19 Executive Budget	\$900,000	\$0	\$900,000
2015-17 Adjusted Legislative Appropriations	934,500	0	934,500
Increase (Decrease)	(\$34,500)	\$0	(\$34,500)



Executive Budget Comparison to Base Level

	General Fund	Other Funds	Total
2017-19 Executive Budget	\$900,000	\$9,842,642	\$10,742,642
2017-19 Base Level	934,500	10,308,017	11,242,517
Increase (Decrease)	(\$34,500)	(\$465,375)	(\$499,875)

Attached as an appendix is a detailed comparison of the executive budget to the agency's base level appropriations.

E	(ec	utiv	ve	В	bL	ge	t H	lig	hli	gh	its
									-		

		,		
		General Fund	Other Funds	Total
1.	Adds funding for state employee salary and benefit increases, of which \$5,778 is for salary increases and \$20,035 is for health insurance increases	\$0	\$25,813	\$25,813
2.	Increases funding for operating expenses to provide a total of \$2,204,190	\$0	\$143,810	\$143,810
3.	Reduces ongoing general fund support for airport grants to provide a total of \$900,000	(\$34,500)		(\$34,500)
4.	Increases funding from other funds for airport grants to provide a total of \$5,800,000 in airport infrastructure grants		\$800,000	\$800,000
5.	Reduces funding for capital assets to provide a total of \$100,000	\$0	(\$200,000)	(\$200,000)

7.00

2017-19

Executive

Budget

7.00

6. Reduces funding for education grants to provide a total of (\$100,000) \$300,000

7. Removes funding for planning grants (\$1,100,000)

Continuing Appropriations

No continuing appropriations for this agency.

Significant Audit Findings

The operational audit of the Aeronautics Commission conducted by the State Auditor's office for the biennium ended June 30, 2015, included significant audit findings related to the following:

- The commission has not properly segregated duties and has not adequately reviewed the potential risk of fraud surrounding the handling of revenue collections.
- . The commission does not have adequate controls surrounding disposal of fixed assets.

Major Related Legislation

House Bill No. 2049 - Amends North Dakota Century Code Section 2-05-22 relating to interest received by the Aeronautics Commission special fund to identify how the fund is to be used. Amends Chapters 57-40.5 and 57-43.3 relating to aircraft excise tax and aviation fuel tax. Repeals Sections 57-43.3-04 and 57-43.3-06 relating to the aviation fuel tax.

Aeronautics Commission - Budget No. 412 Senate Bill Nos. 2006 and 2066 Base Level Funding Changes Executive Budget Recommendation

	Excount Dadget Recommendation			
	FTE Position	General Fund	Other Funds	Total
2017-19 Biennium Base Level	7.00	\$934,500	\$10,308,017	\$11,242,517
2017-19 Ongoing Funding Changes Base payroll changes Salary increase Health insurance increase Increases funding for operating expenses Reduces airport grants - general fund Reduces capital asset funding Reduces education grants Removes planning grants Increases airport grants Total ongoing funding changes	0.00	(34,500)	(\$34,998) 5,778 20,035 143,810 (200,000) (100,000) (1,100,000) 800,000 (\$465,375)	(\$34,998) 5,778 20,035 143,810 (34,500) (200,000) (100,000) (1,100,000) 800,000 (\$499,875)
One-time funding items No one-time funding items				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	(\$34,500)	(\$465,375)	(\$499,875)
2017-19 Total Funding	7.00	\$900,000	\$9,842,642	\$10,742,642

Other Sections in Aeronautics Commission - Budget No. 412

Executive Budget Recommendation

No other sections included in the executive budget recommendation.

Department 412 - Aeronautics Commission

Reductions to 2015-17 Biennium General Fund Appropriations (As a result of the August 2016 General Fund Budget Reductions)

(As a result of the August 2010 General I this Budget Reductions)						
	Ongoing	One-Time	Total			
2015-17 original general fund appropriations	\$1,000,000	\$0	\$1,000,000			
General fund reductions	(65,500)		(65,500)			
Adjusted 2015-17 appropriations	\$934,500	\$0	\$934,500			
Executive Budget changes	(34,500)	0	(34,500)			
2017-19 Executive Budget	\$900,000	\$0	\$900,000			

Summary of August 2016 General Fund Budget Reductions

	Ongoing	One-Time	Total
Reduced funding for airport grants	(\$65,500)	\$0	(\$65,500)
Total reductions	(\$65,500)	\$0	(\$65,500)
Percentage reduction to ongoing and one-time general fund appropriations	6.55%	0.00%	6.55%

2017-19 Executive Budget Changes to the Original and Adjusted Base Budgets

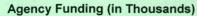
	Changes to Original Budget	Budget Reduction Adjustments	Changes to Adjusted Budget	
Reduces funding for airport grants	(\$100,000)	\$65,500	(\$34,500)	
Total	(\$100,000)	\$65,500	(\$34,500)	

Department 412 - Aeronautics Commission

Historical Appropriations Information

Total Other Funds Appropriations Since 2009-11

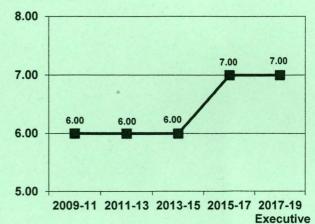
FTE Positions





2009-11 2011-13 2013-15 2015-17 2017-19 Adjusted Executive

■Ongoing General Fund Appropriations



Ongoing General Fund Appropriations						
	2009-11	2011-13	2013-15	2015-17 Adjusted	2017-19 Executive Budget	
Ongoing general fund appropriations	\$550,000	\$550,000	\$550,000	\$934,500	\$900,000	
Increase (decrease) from previous biennium	N/A	\$0	\$0	\$384,500	(\$34,500)	
Percentage increase (decrease) from previous biennium	N/A	0%	0%	69.9%	(3.7%)	
Cumulative percentage increase (decrease) from 2009-11 biennium	N/A	0%	0%	69.9%	63.6%	

Budget

Major Increases (Decreases) in Ongoing General Fund Appropriations

2011-13 Biennium

\$300 \$200 \$100

\$0

1. No major increases or decreases

2013-15 Biennium

1. No major increases or decreases

2015-17 Biennium

1. Increased funding for airport grants to provide \$1,000,000

\$384,500

Budget

2017-19 Biennium

1. Reduces funding for airport grants to provide \$900,000

(\$34,500)



NORTH DAKOTA AERONAUTICS COMMISSION

Kyle C. Wanner

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Cell: 701 425-5926 Fax: 701 328-9656

E-mail: kcwanner@nd.gov

Web: www.nd.gov/ndaero

5B 2006/5B 2066 1-13-17 #/

TESTIMONY OF

KYLE C. WANNER

EXECUTIVE DIRECTOR, NORTH DAKOTA AERONAUTICS COMMISSION

BEFORE THE

SENATE APPROPRIATIONS COMMITTEEE

JANUARY 13th, 2017

SENATE BILL 2006

Chairman Holmberg and members of the committee,

My name is Kyle Wanner and I am the Director of the North Dakota Aeronautics Commission and will be providing testimony today regarding Senate Bill 2006.

(Slide 2) The Aeronautics Commission agency was created by the Legislature in 1947 to support the aviation community in North Dakota. The agency's mission is "to serve the public by providing economic and technical assistance for the aviation community while ensuring the cost effective advancement of aviation in North Dakota."

The agency is overseen by a Governor appointed board of 5 members who appoint a director who in turn; hires and supervises the staff required to operate the agency.

(Slide 3) To introduce our commissioners: Cindy Schreiber-Beck of Wahpeton is currently the commission chairperson. Jay B. Lindquist of Hettinger, Maurice Cook of Bismarck, Kim Kenville of Grand Forks, and Warren Pietsch of Minot cumulatively comprise the full commission board. The board is geographically represented well and each commission member brings a different set of aviation expertise for the agency's utilization.

The Aeronautics Commission is also currently allowed up to 7 full time equivalent staff members which is seen as adequate for the upcoming biennium.

(Slide 4) The North Dakota Aeronautics Commission serves multiple functions. One of those functions includes providing airport infrastructure grant funding to the 89 public service airports throughout the state. The commission also offers aviation education funding and works with the Aviation Museums to encourage and promote aviation in North Dakota. The aeronautics staff visits at least 1/3 of all of the public airports in the state annually which is a great opportunity to develop a positive relationship with the airports, learn about their needs and priorities, and make recommendations on safety enhancing

projects. The staff also updates the airport information after each inspection so that pilots have the most up to date information to use as they utilize the North Dakota airport system. Additionally, the commission updates and provides aviation publications on statewide aviation studies, airport directories, and aeronautical charts.

The commission also has regulatory functions which includes the collection of aviation taxes and fees through aircraft registrations, aerial applicator registrations, aircraft dealers, aircraft excise tax, and aviation fuel taxes

Additionally, the commission and its staff represent the state in aeronautical matters before other state and federal agencies.

(Slide 5) Aviation is important to North Dakota and serves a variety of important functions from emergency transportation to aerial crop spraying. Our airports become especially critical during a time when our state is looking for ways to diversify and grow the economy. Not only is aviation a safe and efficient way to transport goods and people, but our airports act as key economic engines for their communities as documented by a recent statewide economic impact study that I will discuss with you later in this presentation.

(Slide 6) Last year, the Aeronautics Commission unveiled a new and improved website that has become a one-stop shop for aviation needs and information within North Dakota. The new website has information on the agency's programs, allows for online credit card payments of aircraft registrations, provides information from statewide aviation studies, and gives valuable information for our airport managers. The website also provides a go-to place for finding updated information regarding the unmanned aircraft industry. Since launching the new website, we have seen an incredible increase in the amount of traffic that has visited the site and we hope that continues as we work to make information easily accessible to the public.

(Slide 7) Our commercial service airports provide incredible value to our state and the graphic on this slide shows all of the routes and destinations that are currently available to the general public. Nine different direct flight destinations are available to connect North Dakota to the rest of the world. All eight commercial service airports continue to boast jet service and the state is also currently averaging approximately 70 airline flight departures per day with an estimated 4,100 available daily seats.

(Slide 8) This slide highlights the amount of airline passengers that are boarding commercial service flights in North Dakota and tells a very interesting story. Back in 2008, the state boarded 683,000 airline passengers and as shown by the yellow line - it was forecasted at that time that we would reach 1 million annual airline passenger enplanements sometime around the year 2030. In all actuality we surpassed the 1 million mark only 5 years later in 2012 and that growth continued until the state grow to over 1.2 million passengers in 2014. This resulted in a 76% growth in passenger numbers over a 6 year time period.

In 2014, and prior to the collapse in both oil and agricultural prices occurring, our state system plan forecasters had presented us with an updated forecast in the green line as shown on the slide. Now after the price collapse, here in 2017 and as shown by the red line - we expect a leveling off of passenger numbers and steady growth to pick up once again after those industries begin their recovery. This new forecast does not consider a large spike in commodity prices, but a gradual recovery.

As you can see in the graphic - the actual passenger numbers are currently not at the peak that we saw in 2014, but are still being maintained at much higher levels than what was expected prior to the oil boom taking place in the state. In fact, the 2016 passenger numbers are still over 50% higher than they were in 2008. This story helps to give a good perspective of the current condition and outlook of the state's air service.

(Slide 9) To provide some highlights from this past biennium I will start by discussing some key Infrastructure projects have been completed at our 8 commercial service airports.

- Fargo received the funding required to complete the first and second phase of its major taxiway rehabilitation project. The final phase of this project is planned to take place in 2017 at an estimated \$7 million dollars.
- Grand Forks recently began work on redeveloping a general aviation area on the east side of the airport and is also currently working through a master plan update. The airport is planning some major runway lighting improvements in the upcoming biennium.
- Devils Lake recently completed a runway safety area improvement project and is beginning the design work to rehabilitation the crosswind runway in the upcoming biennium.
- Jamestown completed a key wetland mitigation project to improve safety at the airport and is also working toward the rehabilitation of its crosswind runway.

(Slide 10)

- Minot completed the multi-year construction of its new terminal building that opened in February 2016. The airport is also working to complete a master plan process and is working towards major storm water improvements and an expansion to its aircraft rescue and firefighting building.
- Bismarck recently opened bids for Phase 1 of its Runway Reconstruction project. This
 project is the beginning of a multiple-year estimated \$70 million dollar project to
 replace 60 year old pavements on the main runway. The final phases are planned to be
 bid and constructed in the upcoming biennium.
- Dickinson improved their runway safety area and finalized work on their master plan and environmental study to move forward with land acquisition and construction of a new parallel taxiway and main runway. These major projects are expected to begin within the upcoming biennium and finish in the 2019-2021 biennium. Project costs for this critical project are approximately \$60 million.

 Ground breaking on the new Williston airport project took place this last fall and land acquisition has been completed. The airport has received approximately \$54 million dollars to date from the Federal Aviation Administration and is moving forward in the upcoming biennium with the major construction elements. The targeted opening for the new airport is currently fall of 2019.

(Slide 11) Multiple high priority projects were also able to become completed for the general aviation airports this last biennium. To mention a few:

- The new Bowman airport opened in May of 2015.
- Garrison, Hettinger, Linton, Edgeley, and Langdon all underwent major runway rehabilitation projects.
- Mohall, Stanley, and Tioga underwent major taxiway and apron construction projects.
- Kenmare, Ellendale, and Harvey received major runway lighting rehabilitations.

The state has also identified multiple high priority projects at the general aviation airports that will be a focus this next biennium which includes runway rehabilitations at Northwood, Ashley, Hillsboro, and the beginning stages of a runway shift and extension at Watford City.

(Slide 12) This last biennium, the aeronautics commission has been working to complete two statewide studies which all have a benefit to the aviation community and decision makers. The economic impact of aviation update along with a new inventory of our airport pavement condition were both completed in early 2016.

(Slide 13) To provide you with some information from our economic impact study, I need to first describe how we went about the study to ensure that the data we collected is consistent with industry standards and is reliable. It is first important to acknowledge that our state is comprised of 8 commercial service airports, 81 public-use airports, and over 150 private-use air strips that are not shown on this graphic. For the purposes of our study, we analyzed the benefits that each of our 89 public-use airports have on the state's economy.

(Slide 14) Airports essentially provide 5 sources of economic impacts. We carefully analyzed all 5 areas which are comprised of airport management jobs, airport tenant jobs and business income, capital improvement projects, and spending as it related to visitors that arrive into North Dakota either on a commercial airline or via general aviation.

(Slide 15) This slide depicts the breakdown of each of the categories that I previously mentioned. The study had concluded that airports support over 12,200 jobs with a payroll over \$500 million and a total economic output of \$1.56 billion dollars.

(Slide 16) The \$1.56 billion in economic activity is a 47% increase from the same impacts that were studied in 2010. Airport supported jobs, state and local sales tax revenues, and air visitors throughout the state have increased substantially over the same 5 year time period.

(Slide 17) This graphic shows the route of every flight plan that was filed by business or general aviation aircraft over a 1 year period. This shows how useful our airports are to our state outside of the benefits of our commercial airlines. Please feel free to review the executive summary of this study that has been provided in your packet and visit our website to view a full presentation of the results.

(Slide 18) Every three years, the aeronautics commission contracts with an experienced pavement consultant firm to inspect and take inventory of all of the airport pavements throughout the state. The recent update was finalized in 2015 and the results can be found on our interactive website. This website shows the condition of each pavement section at our airports throughout the state, along with deterioration details, photos, projected future conditions, and a recommended funding plans to ensure that the pavements are maintained in the most cost beneficial way. This study has really been a revolutionary way for our state to manage its airport pavements and has served us very well.

(Slide 19) The recent pavement study shows that there exists approximately 55 million square feet of pavement at our airports that needs to be maintained.

The graphic on this slide shows a summary of the condition of all of the airport pavement. Approximately 83% of the pavement was identified to be in fair to good condition which leaves 17% of the pavement in fair or poor condition which would require a major rehabilitation project.

(Slide 20) 72 out of the 89 public use airports in the state are paved. The breakdown includes 8 commercial service airports and 64 general aviation airports. Of those 64 general aviation airports, 45 are eligible to receive federal aid, and 19 general aviation airports rely solely upon state and local funds to stay open.

The two pie charts on the bottom of the slide show how much pavement is being utilized by function (runway, taxiway ect.) and how much pavement exists between our 8 commercial service airports and the 64 paved general aviation airports. As you can see from the graphics, most of our pavement that we need to maintain is for the function of a runway and the 8 commercials service airports actually have more pavement to maintain than the 64 general aviation airports combined.

(Slide 21) There currently exists 33 Automated Weather Observation Systems at airports across the state which greatly help to provide weather to pilots, businesses, and medical providers as they fly into and around our communities. The aeronautics commission currently covers the costs of the scheduled tri-annual inspections at these airports to help reduce the overall cost of maintenance to each community. Each local airport however, is responsible for the costs of any repair parts that will be needed as breakdowns occur, but the Aeronautics Commission grant program may be used to help with those costs as well. This program has been a great success as the state continues to support the maintenance of these weather reporting facilities.

(Slide 22) For your reference, this slide shows a map of the AWOS coverage within the state. Each of the blue shaded areas depicted on this map represents a 30 nautical mile radius of on-site weather reporting. The challenge that our state currently faces is that their currently exists approximately a half of a million dollars in deferred maintenance and technology update costs at these sites. Our agency is working with the airports throughout the state to phase these updates and ensure that the network continues to be maintained.

(Slide 23) During the fall of each year, the North Dakota Aeronautics Commission staff meets with over 50 of the public use airports in the state to review their capital improvement plan for the next 10 years. Throughout this process, projects are identified and cost estimates are submitted so that the agency can calculate the total amount of projects requests that exist within the system. The agency can then work

with the federal government and each local airport to identify and prioritize the projects. There is always the understanding that we will not be able to accommodate all identified projects as shown on this graph, but this process ensures that we find the best and most justified projects. In our most recent statewide capital improvement plan update, we have found that over \$600 million dollars of identified projects exist at our airports that could take place in the next 5 years and an additional \$350 million that exist in the following 5 years. The statewide capital improvement plan included in your packet provides a detailed breakdown of the identified projects.

(Slide 24) As we work to maintain our airport infrastructure, federal funding has and will continue to be a key part of solving the infrastructure funding challenges that our state is currently facing. 54 of our 89 airports are eligible to receive federal dollars and they compete for these funds nationally and may receive up to 90% funding if funds are available. It is very important to understand that federal funding is not guaranteed and that there have been many cases where federal grants have been provided at less than 90% due to this being the case. A recent example of funding being provided at less than 90% is the Bismarck runway project. This past year, phase 1 of the Bismarck runway reconstruction project came in at \$23 million dollars. The federal government provided approximately \$13 million in grant funding which left \$10 million in remaining funds for the state or local governments to pick up.

Nationally, the federal dollars that are made available for airport infrastructure projects has remained very similar to the levels provided since 2001, however costs for maintaining and growing airports across the country has continued to increase resulting in higher competition for those federal dollars. Federal funding is currently authorized through April of 2017 and Congress will need to pass a reauthorization bill sometime this year to ensure continued funding for airport infrastructure projects.

Knowing how important it is to leverage federal funding for much needed infrastructure projects in North Dakota, I have met multiple times with upper level FAA personnel at their national and regional offices. It is important for us to continually engage the federal government to educate on the needs of the state. By presenting high priority projects that are justified and shovel ready, we increase the chances of our ability to receive federal funds. Also, having the flexibility to access state and local funds to partner with the federal government on key projects is critical to leveraging every federal dollar.

(Slide 25) This chart shows the historical FAA funding that has been brought into North Dakota. The state's normal 10 year average of annual funding for airport infrastructure projects has been approximately 23 million dollars. You can see that over the last 5 years that we were have been successful in bringing in significantly higher than average federal funding for airport infrastructure projects. Even at a time when federal dollars are continually harder to bring into the state, we have been successful due to the justified infrastructure needs and the ability to leverage federal dollars with additional state and local dollars. We are hopeful that as we continue to educate the FAA on the needs within the state, that their level of funding and commitment to help with our infrastructure challenges continues into the future.

(Slide 26) This graphic represents the state dollars that have historically been made available for airport infrastructure grants. You may notice that the increase in state funding has occurred in the years that we also saw an increase in federal funds being brought into the state which was shown on the previous slide. The additional state dollars that have been made available for airport projects has been and will continue to be critical to leverage and maintain federal funding at a high level.

The increase in state funding from the Aeronautics Commission in previous years has been made from one-time general fund allocations and an increase in special fund revenue from aircraft fuel sales and excise tax revenue. The state also allocated \$60 million dollars in oil impact funding in the 2013-2015 biennium. In the 2015-2017 biennium, an additional \$48 million in oil impact dollars had been allocated through the oil impact fund, however the lack of revenue's to that fund has only allowed \$3 million to be allocated to airports to date, which remains to be a problem.

Due to this lack of revenue in the oil impact fund, there currently exists a remaining \$45 million dollar obligation from the state to help fund the Williston airport relocation project and critical infrastructure improvements at the Dickinson airport. The executive budget currently recommends \$20 million to the Williston airport relocation project and 4.1 million to the Dickinson airport from funds transfers from the strategic investment and improvement fund within Senate Bill 2073. Under this recommendation, there would still exist an approximately \$20 million dollar obligation to the Williston airport that would need to be made in some other form either in this biennium or the next. Failure to provide those state dollars could compromise future federal funds and the Williston airport relocation project itself.

(Slide 27) The Aeronautics Commission budget is comprised of both special fund and general fund dollars. The special fund dollars are received from multiple revenue streams such as fuel taxes, aircraft excise, and registrations taxes. We also receive funding from the federal government for conducting airport inspections.

The Aeronautics Commission is currently budgeted to receive 900,000 in general fund allocation for airport improvements in the next biennium which is a \$100,000 or 10% reduction from last biennium to meet the Governor's budget request guideline. The reduction of funds occurs in the airport grant line item.

(Slide 28) This slide provides a graphical view of the executive budget recommendations. The airport grants line item is currently the largest expenditure of our agency which is appropriate as the commission feels that it is important that the aviation tax dollars being collected goes back out to the communities for infrastructure related projects. The executive budget currently plans for a total of 7 million dollars to be made available for airport grants in the upcoming biennium.

ND Aeronautics Commission Budget

Proposed budget reductions to meet Governor's 90% budget request guidelines:

Description	2015-2017 General Fund	2017-2019 General Fund	Total Reduction
Airport Infrastructure Grants	\$1,000,000	\$900,000	\$100,000

Comparison of Optional Adjustment Requests made by Aeronautics Commission that was not included in the Governor's Budget:

Description	2017-2019 General Fund	Governor's Recommendation
Request - One time Airport Infrastructure Funding	\$9,000,000	\$0

One-time general fund appropriation of \$9 million dollars in grant funding was requested by the agency to aid the needs of the public airport infrastructure throughout the state. This funding would particularly help to fund a critically identified project need in the capital city - the Bismarck Airport primary runway reconstruction project which is currently estimated at \$70 million.

Multiple needs are present in the airport infrastructure throughout the state during the next biennium timeframe. These airport needs have been identified through multiple statewide studies and the state's current statewide airport capital improvement plan. All studies can be found at the Aeronautics Commission website at https://aero.nd.gov. The statewide capital improvement plan has identified over \$600 million in airport projects over the next 5 years.

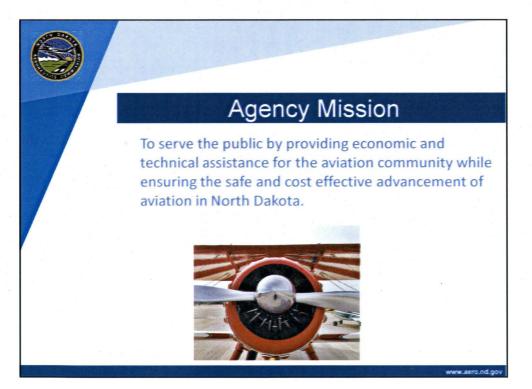
The state also conducted a pavement condition index study in 2015 where an inventory of the condition of all pavements at the public use airports were identified. This study shows that there currently exists approximately \$152 million in pavement rehabilitation and repair needs throughout the state. The Aeronautics Commission understands that not all needs can be accommodated under the current financial situation of federal, state, and local governments and that certain projects need to be prioritized. This prioritization process is exactly what the commission is able to accomplish through its annual airport grant program.

The Aeronautics Commission's base funding level currently allows for \$7 million dollars to be made available for grant funding over the next biennium. This \$7 million dollar amount includes the only general fund dollars that the agency receives at a projected \$900,000 base level. All additional grant funding, staff salaries, and agency operations are funded with special funds. The \$7 million dollar level of funding over the 2017-2019 timeframe is insufficient to match the projected federal funds that the state is expected to receive and to maintain the infrastructure of the 89 public use airports. It is also important to note that 36 of the public airports that exist in the system are ineligible to receive federal funding and rely solely upon state and local funding to be maintained.



5B 2006/5B 2066 1-13-17 #1







Aeronautics Commission Members

5 Member Board Appointed by the Governor



Cindy Schreiber-Beck, Wahpeton



Jay B. Lindquist, Hettinger



Dr. Kim Kenville, Grand Forks



Maurice Cook, Bismarck



Warren Pietsch, Minot

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North Dakota Aeronautics Commission Functions

Airport Infrastructure Grant Funding

Aviation Education Promotion and Funding

Airport Safety Inspections

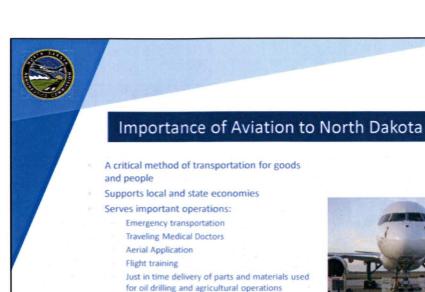
Update Aviation Publications and Planning Documents

Regulatory Functions to include:

Aircraft Registrations
Aerial Applicator Licensing
Aircraft Dealers
Aircraft Excise and Fuel Tax

Represent the state in aeronautical matters before state and federal agencies





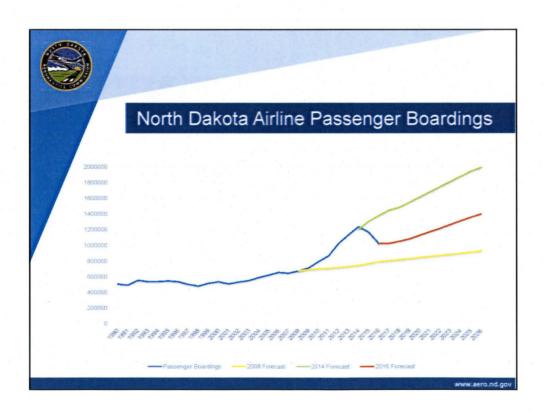


US border protection Testing of Unmanned Aerial Vehicles (UAVs) ...and many others

Weather research and modification

Updated Website www.aero.nd.gov THE 2015 ECONOMIC IMPACT STUDY







Project Highlights

Key Airport Infrastructure Projects

- Commercial Service Airports
 - Fargo
 - Parallel Taxiway Rehabilitation Phase 1 and 2
 - Final Phase to be completed in 2017
 - **Grand Forks**
 - Eastside General Aviation Area Redevelopment
 - Master Plan Update
 - Runway Lighting Improvements planned in 2017
 - Devils Lake
 - Runway Safety Area Improvements
 - Crosswind Runway Rehabilitation planned in 2017
 - Jamestown
 - Completion of Key Wetland Mitigation Project
 - Jet bridge and terminal improvements
 - Crosswind Runway Rehabilitation planned in 2018

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Project Highlights

Key Airport Infrastructure Projects

Commercial Service Airports

- Minot
 - Terminal Building, Parking Lot, Access Roads, Commercial Terminal Apron completed in February 2016 and is now open for the public
 - Completing Airport Master Plan Process
 - Planning major storm water improvements and ARFF building expansion
- Bismarck
 - Runway Reconstruction Phase 1 was Bid in 2016
 - Phase 2 and 3 are planned in 2017 and 2018
- Dickinson
 - Runway Safety Area Improvements, environmental/planning work
 - Land Acquisition and Taxiway improvements planned for 2017/2018
 - Primary Runway Reconstruction planned for 2019/2020
- Williston
 - Acquired Land for new airport development and ground breaking held Fall of 2016.
 - Targeted opening for new airport is Fall 2019
 - FAA Funding to date on new airport \$54.5 million

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Project Highlights

- Key Airport Infrastructure Projects
 - General Aviation Airports
 - New Bowman airport opened in May of 2015
 - Garrison, Hettinger, Linton, Edgeley, Langdon Runway Rehabilitation
 - Mohall, Stanley, and Tioga Taxiway and apron construction
 - Kenmare, Ellendale and Harvey New runway lighting
 - **Upcoming Runway Rehabilitations**
 - Northwood
 - Ashley
 - Hillsboro
 - Watford City
 - Includes proposed Runway Extension

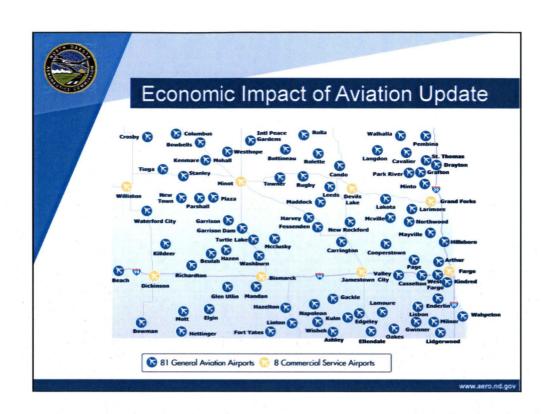
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Statewide Aviation Studies

- **Economic Impact of Aviation Update**
 - Deliverables were made available Spring 2016
- Statewide Pavement Condition Index Study
 - Online website is now available and final paper deliverables were made available Spring 2016



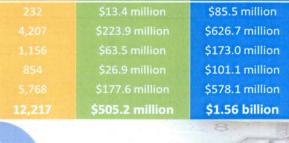






Total Economic Impacts

Total Airport Management		\$
Total Airport Tenants		\$1
Total Capital Investments		
Total General Aviation Visitors		\$
Total Commercial Visitors		
Total Statewide Annual Impacts	12,217	\$5







Total Output

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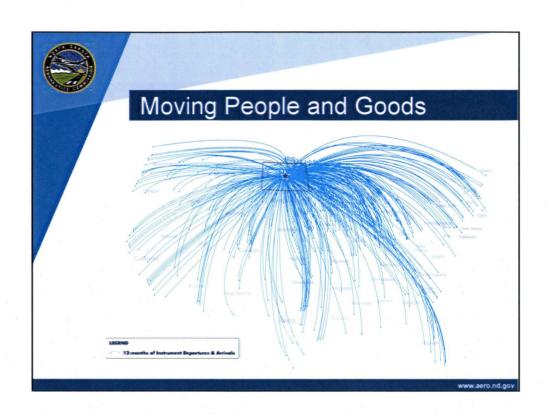
Economic Impact of Aviation

Key Findings

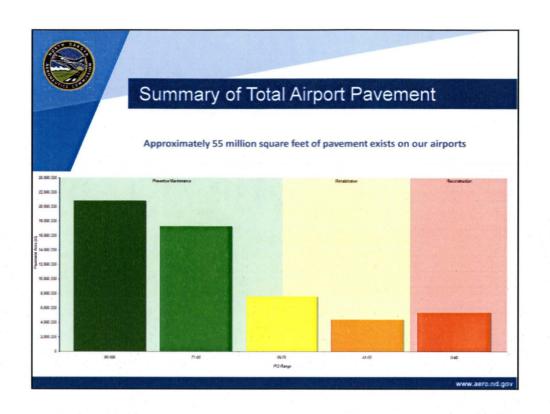
- Airports support \$1.56 billion in annual economic activity
- Annual economic impacts for public-use airports up 47% since 2010
- Airport supported jobs have grown from 8,872 to 12,217, an increase of 3,345 jobs
- State and local aviation sales tax revenues have increased from \$31.1 million to over \$60 million
- Air visitors to North Dakota have grown from 545,300 to 915,290

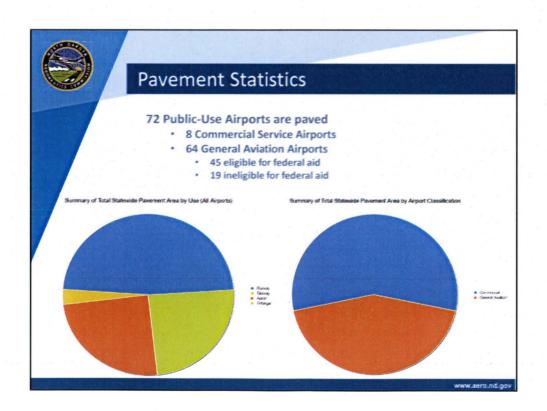




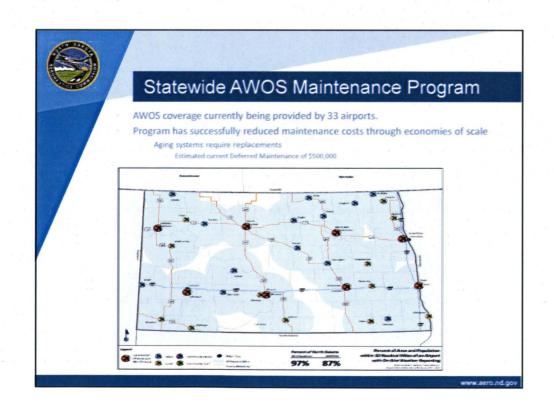














Statewide Airport Infrastructure Needs

- Statewide Capital Improvement Plan is updated on an annual basis.
 - 1-5 year project costs: \$600 million
 - 6-10 year project costs: \$350 million
 - Total 10 year project costs: \$950 million

Airport Infastructure - Identified Projects

\$600,000,000 \$600,000,000 \$400,000,000 \$300,000,000 \$200,000,000 \$100,000,000



Commercial Service Airports

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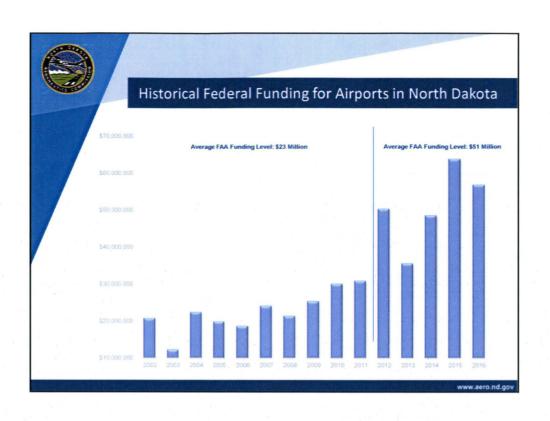
Federal Funding Outlook

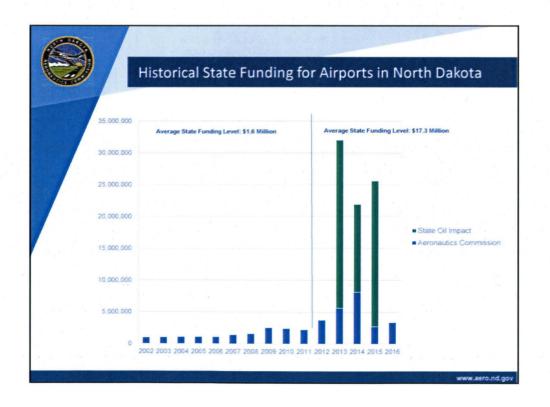
North Dakota airports compete nationally for federal dollars

- FAA may provide funding of up to 90% for high priority projects <u>if funding is available.</u>
- Many projects receive less than 90% in federal aid.
- Federal dollars available nationally for airport infrastructure projects has remained at similar levels provided since 2001.
- Funding is currently authorized through April 2017.

Recommendations to increase Federal funding

- Continually educate the FAA on the needs of the state
- Present high priority projects that are justified
- Ability to have shovel ready projects
- Ability to partner on funding projects through state and local funds



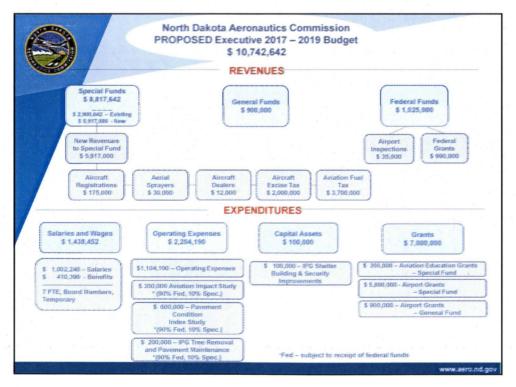


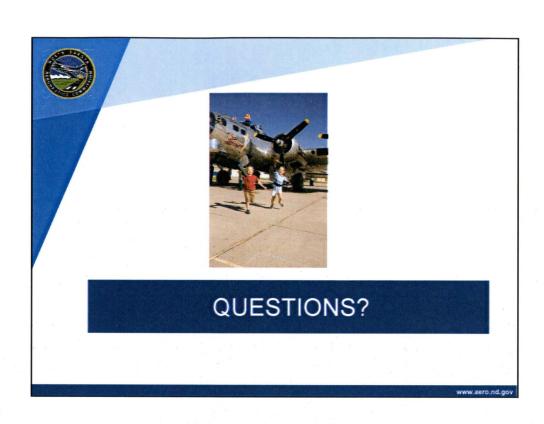


Aeronautics Commission Funding

- Main Sources of Revenue
 - Special Fund
 - Aviation Fuel Tax
 - Aircraft Excise Tax
 - Aircraft Registrations
 - Airport Inspections
 - Aerial Applicator Licensing
 - Aircraft Dealer Registrations
 - General Fund
 - The upcoming biennium budget currently calls for \$900,000 in general fund dollars.

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5B 2006/5B 2066 1-13-17 #3

2017 - 2019 CIP / NPIAS PLANNING REPORT

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

This report reflects a snapshot of the State Wide Capital Improvement Program (CIP) for Public Airports in North Dakota as of January 3rd, 2017. The actual CIP data changes continually as projects come under contract, change scope, or are abandoned.

NDAC Priority - The higher the number, the higher the priority on a scale of: 10 - 57

FAA Priority - The higher the number, the higher the priority on a scale of: 0 - 97

Identified
Infrastructure
Projects (Thousands)

		The state of the s	NDAC	FAA	1 to 5	6 to 10
	AIRPORT	PROJECT	Priority	Priority	Yrs.	Yrs.
1	Fargo	Taxiway A Reconstruction (Twy C to Rwy 18)	45	64	7150	T
1	FAR	SRE Building Expansion ('18) / SRE Equipment	32	36	1450	750
- 1		Rwy 18/36 CL/TDZ Lighting	56	45	1350	
1		Cargo Apron Expansion	44	38	2250	
		Pavement Rehabilitation	56	66	450	1000
		Terminal Building Expan. (Gate 6)	31	93	4500	
- 1		Terminal Apron Reconstruction	54	47		8000
- 1		Rwy 18L/36R EA, Design, Construction	26	49		8350
		Rwy 9/27 Ext./Widening / Par. Txy EA, Design,Construc.	46	51		21350
		North GA Taxilane Extensions / East GA Expansion	45	38		3000
		Parking Lot Expansion	23	27		2000
		Twy D Reconstruction	45	38		3500
2	Bismarck	Wetland Mitigation - Phase 5- 6 / Drainage Improv.	31	59	3000	1
	BIS	GA Apron Expansion	44	64	2000	2000
1		Rehabilitate Rwy 13/31 / Phase II Grant App - '17	56	70	60000	1
- 1		Rehabilitate Rwy 03/21	56	66	5000	1
- 1		Rehabilitate Taxiway D	56	64	4000	
		Relocate Yegen Road	32	50	1000	5000
- 1		EA / RPZ Land Purchase	41	44	2000	- 5555
- 1		Expand SRE & ARFF Building	31	46	3000	
- 1		Commercial Terminal Building Update/Expansion	31	93	1500	4000
- 1		Snow Removal / ARFF Equipment	32	70	2000	1000
3	Grand Forks	Rwy 17R/35L, Txy A Light. Rehab.(Design '17, Const. '18)	56	45	3200	
1	GFK	Master Plan/ALP Update, Exhibit A, Reimbursem. 2015 Grant	31	42	60	1
- 1	0	Twy U Reconstruction (Design and Construct. '17)	45	64	1400	1
- 1		Rwy 17R/35L Reconstruct (EA "19, Design "20, Const. "21)	56	54	38550	
- 1		West GA Taxiway/Taxilane Construction	45	38	1300	1
- 1		Terminal Apron Expan. Design and Construct.	44	38	1,000	8750
		ARFF Truck	32	36		850
- 1		Taxiway/Taxilanes Old Terminal Area, Design	45	38		150
- 1		Rwy 9L/27R Exten. Design and Construct	46	56		41100
4	Minot	ARFF Station Rehab (Design '17)	12	36	2800	1
	MOT	Wildlife Hazard Mitigation (EA '18)	31	66	300	_
		Storm Water Pond - (EA '17)	31	66	3700	1
		GA Apron Rehap (North - 18, South 19 & 20)	54	55	3000	
		Purchase SRE Equipment	32	36	3300	500
	A	Purchase ARFF Truck	52	36	850	300
		Taxiway B Rehab	45	38	5200	
		Replace/Upgrade Airfield Security Fence	31	83	3000	
		Pavement Maintenance (RTA,RCF, Seal), Remarking	.56	68	500	1000
		Runway 8/26 Reconstruction (Design 21')	56	66		20000

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
5	Jamestown	Pavement Maintenance (RTA,RCF, Seal), Remarking	56	66	350	400
	JMS	Rwy 4/22 Rehabilitation (Design '17, Const. '18)	56	66	3550	
1		West Taxilane Reconstruction	45	64	250	
1		Purchase SRE Plow Truck	32	36	375	
ı		Parking Lot Expansion	23	27	125	
1		Taxiway A, B, C, D, E Rehabilita. (Design '20, Const. '21)	45	64	3200	
- 1		Terminal Apron Rehabilitation	44	55		1000
- 1		W. Industrial Park Infrastr. Improv. (D. '23, C. '24-'25)	11			3025
6	Williston	Design Airport Infastructure	41	52	15000	1
	ISN / XWA	Construct Terminal Building	33	40	60000	
1		Construct SRE/ARFF/Parking Lot/Access Rd	32	48	30000	
		WHA / Navaid Reimbursable	41	64	3000	
		Construct Security Fence	31	57	2000	
ı		Construct Airport Pavement, Lighting	56	65	90000	5000
ı		Construct Roadway/Infastructure to Airport	31	23	10000	
		Construct Airport Security System	31	31	1000	
1		SRE	32	45	1200	800
ı		FBO & Hangars/Fuel Facilities	33	21	1000	2000
7	Devils Lake	Rwy 3/21, Taxiway A1/A2 Rehabilitation, Apron Reconfig.	56	66	1500	1
1	DVL	SRE Equipment	32	36	150	300
-		Land Acquisition (Relocate Building)	41	42	500	
1		Apron Reconstruction ('21 Design, '22 Construction)	44	55	100	1500
ı		Rwy 13/31 Rehabilitation	56	66		2000
1		Security Upgrades/Access Control System	42	1 111		300
- 1		Emergency Generator	32			200
ı		GA Apron Lighting	31			100
ı		GA Hangar	12	29		500
1		Deicing Containment Facility	22			200
3	Dickinson	Terminal Design and Construction	33	45	30000	
	DIK	Land Acq./Design/Reconstruct Runway 14/32	56	68	45000	_
ı		Construct Parallel Taxiway/Taxiway B Improvements	45	64	17000	1
ı		EA & Runway Maintenance	56	68	4000	300
- 1		Terminal Access and Parking Lot	31	40		9000
١		Install Wildlife Fence	31	57	600	
١		ARFF Truck / ARFF Building Expansion	32	41		2500
- 1	V ,	Construct Commercial Service Apron	44	47		9000
- 1		Construct txy for hangars / Access Road	55	66		5000
		Crosswind Parallel Taxiway	45	61		3000
		Onsite Water Tank and Sanitary System	31	1		3000
		SRE/SRE Building Expansion	32	45	1000	3000
		TOTAL COMMERCIAL SERVICE AIRPORT NEEDS	1		487,710	184,725

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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FAA Priority - The higher the number, the higher the priority on a scale of: 0 - 97

Identified
Infrastructure
Projects (Thousands

				_		
	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		Rwy 14/32,Txwy, Apron Rehab/Overlay Construction	56	66	1400	
9	Ashley	RSA , Land Acquisition	41	42	25	
	ASY	Install LED MIRL's,PAPI, Beacon, Windcone	56	45	500	
-		Instrument Approach Procedure	37	50	150	
		AWOS III	32	38		250
- 1		SRE	32	36		200
		SRE Building	32	36		150
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
		Pave SRE/Terminal Access Rd, Apron, CS (Phase II)	33	50	500	
10	Beach	ALP/MP Update with AGIS and Exhibit A	31	42	250	
	2OU	Construct Hangar (Design '20)	12	29	550	
		Pavement Maintenance (RTA,RCF, Seat)	56	66	40	100
		Rehab Rwy 12-30, Txwy and Apron (Design '24)	46	66		3100
		Construct X-Wind Runway	46	59		1500
		Construct Fence and Signage	31	38		2000
		Construct Parallel Txwy	45	64		700
		Construct Apron Expansion	54	38		400
		Construct Fuel System	22	17	300	
11	Bottineau	Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
	DO9	Construct Taxiway	56	68	300	
	500	Construct X-Wind Runway	45	46	500	
		Hangar Demo / Construct New Hangar	12	29	800	
		Rehab Rwy 13-31, Txwy and Apron (Design '21)	56	66		2100
		Construct Fence and Signage	31	38		2500
		ALP/MP Update with AGIS and Exhibit A	31	42		250
		Construct Parallel Txwy Extension Phase I (Design 17)	45	48	3400	_
12	Bowman	Purchase SRE Equipment	32	45	250	+-
12	BWW	Construct Crosswind Runway	46	59	300	8000
	0,,,,,	Construct Taxilane	45	47		1000
		Construct Hangar (Design '19)	12	36	1200	1000
		Pavement Maintenance	56	66	100	200
		Rwy16/34, Taxiway, Apron Rehabilitat. ('18 Design, '19 Constr.)	56	66	1,100	200
13	Cando	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
13	9D7	Fuel System	22	17	30	250
	907	Wildlife Assessment/WHMP	31	55	II	50
			31	38	H	1500
		Wildlife Fence and Signage		-	4500	1500
	Couringto	Rwy 13/31, Taxiway, Apron Rehab. ('18 Design, '19-'20 Constr.)	56	66	1500	200
14	Carrington	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
	46D	Airfield Lighting Improvements Design and Construction	56	45		500
		New Hangar '26 Design and '27 Construction	12	29		830
		Wildlife Assessment/WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1500

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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FAA Priority - The higher the number, the higher the priority on a scale of: 0 - 97

	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		NW and SE Apron Rehabilitation (*17 Design, *18 Construc.)	44	55	300	1
15	Casselton	Taxiway A Rehabilitation ('20 Design, '21 Construction)	45	64	300	
	5N8	Rwy 13/31 and MIRL Reconstruction ('22 Design, '23 Constr.)	56	66		5700
		NW and SE Apron Reconstruction	44	. 55	2900	
		T-Hangar ('30 Design, '31 Construction)	12	29		675
ı		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
16	Cavalier	Parallel Taxiway Construction	45	64	800	1
	2C8	SRE Equipment	32	36		200
- 1	200	Pavement Maintenance (RTA, RCF, Microsurface)	56	66	150	300
1		PAPI and Flight Check	56	45	150	
		New Hangar Taxilane	45	38		550
1		Rwy 16/34 Rehabilitation, Overlay	46	66		550
- 1		New Hangar	12	29		650
- 1		Wildlife Assessment/WHMP	31	55	100	
		Wildlife Fence and Signage	31	38	1500	
		Land Acquisition RPZ/Transitional Surfaces (70 Acres)	41	42	350	1
17	Cooperstown	ALP/MP Update with AGIS and Exhibit A	31	42		100
	S32	Pavement Maintenance (RTA, RCF, Seal)	56	66		200
		Rwy 13/31, Taxiway, Apron Rehabilitation	56	66	1000	
		Pave Access Road	33	20		250
ı		Parallel Taxiway Construction	45	64		500
		Apron Expansion	44	38		500
		Crosswind Rwy Construction	26	49		900
_		Extend TxIn and Rehab, Demo Building, Construct Txwy	45	52	430	
18	Crosby	EA for Rwy Extension	46	48	130	
	D50	Rwy Extension Land Acquisition and Wetland Delineation	46	51	300	
	200	Construct Hangar (Design '24)	12	29		700
	1 2 1	ALP/MP Update with AGIS and Exhibit A	31	42		150
		Rwy and Txwy Rehab (Design *21)	56	66	2200	100
- 1		SRE Building Construction / SRE	32	36		500
1	N -1 - 1 - 1	Construct Jet A Fuel System	12	17	150	- 500
1		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
19	D			50	100	200
19	Dunseith - IPG	Obstacle Removal	57			
1	S28	ALP/MP Update with AGIS and Exhibit A	51	42	250	
- 1		Instrument Approach Development (3rd Party - Hughes)	5.7	42	50	
1		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	-
- 1		Construct Terminal Shelter and Security Upgrades	21	- :	50	
- 1		Land Acquisition - Rwy 28 RPZ	56	42	500	
1		Rehabilitation of Pavement Surfaces (Design '23)	56	66 .		1100
		Wildlife Fence and Signage	51	38		2000
		Fuel System (Jet - A)	22	17	250	
20	Edgeley	ALP/MP Update with AGIS and Exhibit A	31	42	150	
	51D	Snow Removal Equipment (SRE)	32	36	200	
		Wildlife Hazard Assessment/WHMP	31	55	200	
		Upgrade Windcone and Beacon	42	44		100
		Wildlife Fence and Signage	31	38	800	800
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		New 100LL Fuel System	22	17	225	
21	Ellendale	Access Road Improvements	33	20	325	
	4E7	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	50
		Rwy 17/35 Rehabilitation	56	66	200	
		Rwy 13/31 Rehabilitation	56	66		600
		Wildlife Assessment/WHMP	31	55	100	
		Wildlife Fence and Signage	31	38	1500	
		Apron Rehabilitation	44	38		500
		Construct New Terminal Building & Misc Improvements	32	36	600	
22	Ft. Yates	Aeronautical Survey / IAP Development	37	50	100	
	Y27	New PAPIs and Threshold Lights	56	45	200	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
		Construct Hangar	12	29		600
		Construct SRE Building	32	36		700
		Access Road Improvements	33	20		600
		Install AWOS	32	38		200
		Construct NE Taxilane (Design '19)	45	38	600	
23	Garrison	Construct New Terminal Building (Design '21)	21	29	500	
	D05	Rehab Taxilane (Design '24)	45	38		600
		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
		Install AWOS	32	48		300
		Land Acquisition (EA '29) / RPZ	41	41		600
		SRE Equipment	32	36		300
		Construct Fence and Signage	31	38		2000
		Update ALP/MP with AGIS and Exhibit A	31	42		200
		Pavement Maintenance (RTA, RCF, Seal)	56	66	300	300
24	Glen Ullin	Rehab Runway, MIRL and Taxiway (Design 19)	56	66	100	1500
	D57	Rehab Apron (Design '26)	54	56		2000
		Taxilane Extension	45	38	500	
		Construct Hangar	12	29		400
		Construct X-wind Rwy, EA, RPZ Land Acquisition	46	59		700
		TRANSFER TO UNKNOWN	46	59		
25	Grafton	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	300
	GAF	Rwy 17/35 Lighting Rehabilitation/ PAPI Replacement	56	45	270	
	-	Hangar Taxilane/ Apron Rehabilita. (Phase 1-'18, Phas. 2-'19)	45	38	250	1
		New Hangar ('19 Design, '20 Construction)	12	29	750	
		Rwy 17/35 Rehabilitation/Rejuvenator	56	66		1000
		Road Relocation/Obstruction Removal	47	57		250
		Wildlife Assessment/WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1000

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
26	Gwinner	Snow Removal Equipment (SRE)	32	36	275	
	GWR	New Hangar ('17 Design, '19 Construction)	12	29	650	
		East Access Road Improvements	. 33	20	450	
		Land Acquisition, 17 Acres (Wildlife Fence)	41	42		275
		Wildlife Hazard Assessment (WHA), WHMP	31	55	100	100
		Wildlife Fence and Signage	31	38	1500	
		SRE Building	32	36		800
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
27	Harvey	Pavement Maintenance (RTA, RCF, Slurry Seal)	56	66	300	
	5H4	Land Acquisition and EA	41	42	500	
		Rwy 11/29, Taxiway, Apron Rehabilitation, Mill and Overlay	46	66		1500
		New Crosswind Rwy	46	59		800
		Update ALP/MP with AGIS and Exhibit A	31	42		150
		Parallel Taxiway	45	64		500
		Apron Expansion	44	38		300
		Wildlife Fence and Signage	31	38	1000	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
28	Hazen	Rehabilitate Runway 14-32	56	66		2100
	HZE	Wildlife Hazard Site Visit / Signage / Fence	31	62		2500
		Construct Hangar	12	29	600	
		ALP/MP Update with AGIS and Exhibit A	31	62		200
		Construct Crosswind Runway	46	49		500
-		Construct Fueling System	12	17		150
		Windcone Replacement and New Taxilane Widening	45	39	300	
		Install MIRLS and Signage	56	45		500
		Construct Parallel Taxiway	45	46		600
		Rehab Txy A South (Phase I) / Txy C and A North (Phase II)	-55	58	2200	
29	Hettinger	Construct New Taxilane	45	38		500
	HEI	Rehab Apron	54	55		1100
		Install MITL System	54	44		300
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100
		Rwy 16/34 Reconstruction	56	66	4500	
30	Hillsboro	Partial Parallel Taxiway and Hangar Taxilane	45	64	2300	
	3H4	Full Parallel Taxiway	45	38	3000	
		Land Acquisition / EA (Rwy Extension)	41	42	450	
		Rwy 16/34 Extension	46	51		6500
		New Hangar	12	29		1000
		AWOS	32	38		150
		Reconstruct Service Road	33	20		500
		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Slurry Seal)	56	66	25	100

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
	1	Reconstruct Airport Access Road / Expansion (Design '17)	33	. 20	300	
31	Kenmare	East Hangar Area Expansion (EA '19)	45	47	800	1100
1	7K5	Relocate Fuel System	22	17		80
- 1		Runway 16-34 Expansion (EA '26)	46	42		300
1		Construct GA Terminal Building	21	35		500
		Pavement Maintenance (RTA, RCF, Seal)	56	68	100	300
	A Section	Install AWOS	32	47		200
32	Kindred	Drainage Improv./Turf Rwy/Wdcon./Seg. Cir. ('17 D, '19 C)	56	56	1250	
	K74	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	400
1		Land Acquisition/Survey (Hangar Area, 4.9 Acres)	41	42	175	
1		Wetland Mitigation (6 Acres)	36	54	150	
- 1		Taxiway Rehabilitation	45	64		500
- 1		EA Fuel Facility Concrete Pads (30' X 20')	12	46		75
		Rwy 11/29 Extension, Parallel Taxiway Construction, EA	46	51		1800
		Wildlife Assessment (WHA), WHMP	31	55		100
1		New Hangar	12	29		600
		Wildlife Fence and Signage	31	38		1000
33	Lakota	Hangar Taxilane, Park. Lot, Fuel Acc. Road ('17 D, '18 C)	45	64	500	
	5LO	Rwy 11/29 and Turnaround Rehab. ('20 Design, '21 Constr.)	56	66	1650	1
-		Parking Lot Design and Construct	23	27		150
1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Wildlife Assessment (WHA), WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1000
_		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	150
34	LaMoure	Replace Rwy 16/34 Lights	56	45	250	700
0.4	4F9	Twy Reconstruction	45	64	200	1-
		Apron Reconstruction	44	38	500	1
		Acquire Land (Protective Surfaces)	41	42		300
1		Wetland Mitigation	36	38	I	200
		Wildlife Assessment (WHA), WHMP	31	55		150
		GA Terminal	21	29	200	100
		New Hangar	12	29		500
		Fuel System	22	17		200
_		Rwy 14/32 Lighting and Signage Rehabilitation	56	45	250	100
35	Langdon	ALP/MP Update with AGIS and Exhibit A	31	42	250	1
00	D55	SRE Equipment	32	36	350	1
	200	Hangar Taxilane Reconstruction	45	64	600	-
		Parallel Taxiway ('21 Desgin, '22 Construction)	45	64	150	850
		New Hangar	12	29	11	1000
		GA Terminal Rehabilitation	21	29		150
		Rwy 8/26 Rehabilitation (Crosswind)	56	66	11	600
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	1.00

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		Install MIRLS, Windcone, Beacon and Vault	56	51	500	
36	Linton	Runway 9/27 Extension (EA '20)	46	51	200	1000
	7L2	ALP/MP Update & AGIS and Exhibit A	31	42		200
		Construct Parallel Taxiway	45	64		1500
		Construct Hangar / SRE Building	12	36		400
- 1		Access Road Improvements	33	20	500	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	
		Helipad Apron Expansion	44	38	120	
37	Lisbon	Apron Expansion	44	38	400	1200
- 1	6L3	Update ALP/MP with AGIS and Exhibit A	31	42	150	
		Parallel Taxiway	45	64		400
1		Rwy 14/32, Taxiway Rehabilitation	56	66		600
- 1		Rwy 3/21 Expansion	46	51		200
- 1		Rwy 14/32 Light Rehabitation (LED)	56	45		250
		SRE/Terminal Building	32	36		200
1		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100
		Wildlife Fence (Design '17) / Wetland Mitigation/ Drainage	31	38	3200	
38	Mandan	Reconstruct Hangar Taxilane	45	46	2000	
1	Y19	Construct Taxilane	45	46	400	400
1		Pavement Maintenance (RTA, RCF, Seal)	56	70	160	400
		Construct Runway Expansion (EA '18)	46	48		4200
1		AGIS Update / Aeronautical Survey and Exhibit A	31	42	120	
ı		Construct Corporate Apron	31	41		600
1		Construct Terminal Building Expansion	21	29	500	
		Relocate County Road and Powerlines	46	48	2000	
		Construct Hangar	12	29	1000	
		Reconstruct Apron	45	46		600
		Construct Runway 13 Extension and Widening (EA '17)	46	51	2200	
39	Mohall	Land Acquisition for Runway 13 Extension (45 acres)	46	48	250	
1	HBC	Wetland Mitigation	31	55	200	
1		Pavement Maintenance (RTA, RCF, Seal)	56	.66	100	300
- 1		Wildlife Assessment Study	31	55		50
- 1		Construct Wildlife Fence	31	38		2500
		Taxiway Widening and Realignment	45	46		650
1		Instrument Approach Development - Rwy 13	37	50		250
		Construct SRE Building	32	44		450
		ALP/MP Update / AGIS/Exhibit A for Instrument Procedure	51	62	180	
40	Mott	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
	3P3	Construct Partial Parallel Taxiway	41	42	200	
- 1		Construct Wildlife Fence / WHSV	31	64	50	2000
		Construct Hangar Taxilane	45	46		300
1		Install AWOS	32	42		200
- 1		Construct Hangar	12	29	400	
		Construct Runway Extension	46	56		1000

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		Rwy 8/26, Taxiway, Apron Reconstruction (Overlay)	56	66	2050	
41	Northwood	Taxilane and Apron Expansion ('19 EA, '20 D, '21 C)	45	46	550	
- 1	4V4	Fueling System	22	17		350
		GA Terminal	21	29		600
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	400
		New Rwy (14/32)	46	59		5200
		SRE/Terminal Building	32	36	450	
42	Oakes	Wildlife Hazard Assessment / WHMP	31	55	60	
	2D5	Wildlife Fence and Signage ('19 Design, '20 Construct)	.31	38	1000	
		Parallel Taxiway	45	64	100	1000
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Update ALP/MP with AGIS and Exhibit A	31	42	225	T
43	Park River	Terminal Parking Lot	23	27	100	
	Y37	Enviromental Assessment (EA)	46	48	125	
		Land Acquisition Rwy 13/31 Shift/Extension	46	52	250	
		Rwy 13/31 Shift Extension and Update Lighting	46	51		1000
		AWOS	32	42		280
		Wildlife Assessment/WHMP	31	55	50	
		Wildlife Fence and Signage	31	38	1000	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Construct Hangar	12	29	520	T
44	Parshall	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
	Y74	ALP/MP Update / AGIS/Exhibit A with WHSV	31	62	300	
- 1		Construct Runway Extension (EA '23)	46	56		1300
		Land Acquisition for Rwy Extension	46	52		600
		Install AWOS	32	42		300
		Construct Apron	44	38		300
		Construct Fence and Signage	31	38	2000	
		Construct Fuel System	22	17	200	
		Apron / Access Road Reconst. / Taxilane Const. ('17 D / '18 C)	45	64	1000	
45	Pembina	Flood Protection (Design '18, Construction '21)	54		300	
	PMB	SRE Building Construction (Design '21, Construction '23)	32	36	1500	
		Parking Area with Secruity Fence	23	27		150
		Rwy 15/33 and Taxiway Rehabilitate	56	66		1250
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Wildlife Assessment/WHMP	31	55		50
		Wildlife Fence and Signage	31	38		1000
		Airfield Electrical Project and CS	56	66	450	
46	Rolla	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
	06D	ALP Update / AGIS and Exhibit A	32	55	250	
		Land Acquisition (RPZ)	41	44	300	1
		Construct Fence and Signage	31	64		2000
		Construct Hangar	12	29		600

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		Airfield Electrical Project, CS and Sfc Treatment	56	66	550		
47	Rugby	Pavement Maintenance (RTA, RCF, Seal)	56	. 66	50	100	
	RUG	Construct SRE Building	32	36	500		
		Runway 12-30, Taxiway and Taxilane Rehabilitation	56	66		3000	
		ALP Update / AGIS and Exhibit A	32	55		250	
		WHA, Construct Fence and Signage	31	64		2200	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	150	
48	Stanley	Construct Jet Fuel System	22	17	100		
	08D	Land Acquisition (16.7 Acres)	41	42	300		
		Hangar/Parking Lot Improvements	12	27	800	800	
		Construct SRE Building	32	36		400	
		AGIS Survey	31	42		100	
		Construct Hangar	12	27		800	
		Pavement Maintenance (RTA, RCF, Seal)	56	68	300		
49	Tioga	WHSV and WHMP Study	45	62	50		
	D60	Construct Fence and Signage	31	64	1500		
		Runway 12-30 Rehabilitation	56	66		1300	
		Construct Full Length Parallel Taxiway (EA '27)	41	42		2400	
		Construct Terminal Building	21	40	500		
		Fuel System Relocation - Design and Construction	22	17	400		
		Wildlife Fence, Hangar Park., Cultur. Inv. (D "17, C'18 / "20)	31	38	1000	1	
50	Valley City	Rwy 13/31 Rehabilitation and Marking	56	66		450	
	BAC	Rwy 5/23 Construction (EA '23, Design '26, Construc. '27)	46	59		1300	
		Apron Reconstruction (Design *25, Construction *26)	44	38		1100	
		Land Acquisition (95 Acres)	41	42	475	475	
		Update ALP/MP with AGIS and Exhibit A	31	42		250	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100	
		Main Taxiway Reconstruction (Rwy 15 End)	41	64	410		
51	Wahpeton	Apron Rehabilitation (Design '19, Phase 1-'21, Phase2-'22)	44	38	2600	2500	
	BWP	Land Acquisition (Rwy 33 End-House)	56			200	
		Rwy 3/21 Paving (Crosswind)	46	59		1000	
		Wildlife Fence and Signage	31	38		1000	
		Pavement Maintenance (RTA, RCF, Seal)	.56	66	50	100	
		New Hangar	12	29	650		
52	Walhalla	Update Lighting (MIRL)	56	45	50	300	
	96D	Parallel Taxiway Rejuvinate	45	64	250		
		Update ALP/MP with AGIS and Exhibit A	31	42		150	
		Need \$ Transfer Out to Another Airport 2017				1	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100	
		Rwy 15/33 Rehabilitation (Seal Coat)	56	66		250	
		Wildlife Fence and Signage	31	38	1000		

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Identified Infrastructure Projects (Thousands)

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		ALP/MP Update, AGIS/Exhibit A, Environmental and WHSV	32	55	300	
53	Washburn	Construct Apron Expansion (Phase II - EA 18)	47	50	100	
	5C8	Construct Fueling System (Design '20)	22	59	600	
		Pavement Maintenance (RTA, RCF, Seal)	56	66		800
- 1		Construct Hangar Taxilane	45	46	5	500
- 1		Construct Fence and Signage	31	64		1400
		Construct Access Road	33	20		150
		Land Acquisition	41	42	700	
54	Watford City	Runway Realignment (Design '18)	46	48	18200	
	S25	Construct Fence and Signage	31	64		3200
- 1		New Airport Beacon	41	42	50	
		Pave Access Road / Parking	33	21		400
		Pavement Maintenance (RTA, RCF, Seal)	56	68	100	100
55	State PCI		51	56	1000	1000
56	State Av-Impact		51	64		600
57	State System Plan Update		51	64		600
			GA T	otals:	121,865	163,190
			CAT	otals:	487,710	184,725
	Total Based AC:		CA & G.	A Totals:	606,775	347,915

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In addition the availability of State and Federal funding varies. Although listing a project in the CIP is the first step toward funding, that funding is not guaranteed for the projects listed.





Facts on the Economic Impact of Airports in North Dakota

Airport Economic Impacts

North Dakota's 8 commercial and 81 general aviation airports provide and support significant annual economic impacts. Airport related benefits come from activities associated with airport management, airport tenants, capital investment, and spending by visitors to North Dakota who arrive on commercial airlines and general aviation aircraft. Economic impacts for the 89 airports are measured using employment, annual payroll and annual economic output.

A 2015 study completed by the North Dakota Aeronautics Commission shows there are significant positive economic impacts associated with the state's public-use airports. As shown below, there has been a notable increase in impacts between 2010 and 2015:

Annual economic impacts from public-use airports have increased from \$1.06 billion to \$1.56 billion, a 47% increase.

Jobs supported by North Dakota airports have grown from **8,872** to **12,217**, a **38%** increase.

Annual state and local sales tax revenues from airport supported activities have increased from \$31.1 million to over \$60 million, a 93% increase.

The significant annual economic impact from North Dakota's 8 commercial and 81 general aviation airports comes from **five** centers of economic activity.

Airport Management Activities undertaken by airport employees to operate the airport on a daily basis.

Airport Tenants Aviation related businesses that provide airport, aircraft, or customer services.

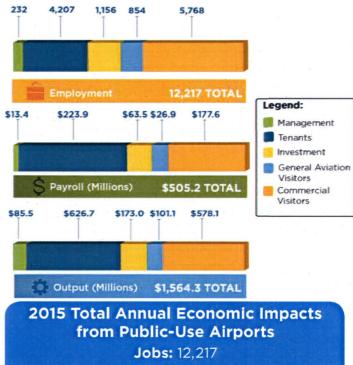
Capital Improvement Spending

Average annual investment made to maintain, improve, or expand an airport.

General Aviation Visitors Spending by general aviation visitors to North Dakota that support hotels, restaurants, and other visitor related activities.

Commercial Visitors Spending by commercial visitors to North Dakota that support hotels, restaurants, and other visitor related activities.

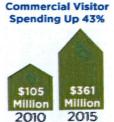
Economic impacts for North Dakota airports are measured using three indicators: employment, annual payroll, and annual economic output. For airport management and airport tenants, output is equal to their cost for purchasing goods and services to run the airport or their business. For capital investment, commercial visitors, and general aviation visitors, output is equal to average annual spending for airport improvements or annual spending by air visitors while they are in North Dakota.



Payroll: \$505.2 million
Output: \$1.56 billion

Air Visitors to North Dakota

Since 2010, all air visitors to
North Dakota have increased
from **543,300** to **915,290**, an
increase of 68%. Business
travel to North Dakota has
increased exponentially, leading
to significant increases in visitor
spending for both visitors
arriving on general aviation
aircraft and on commercial
airline flights. Study surveys
show business travelers are
staying longer and spending more.



General Aviation Visitor Spending Up 93%



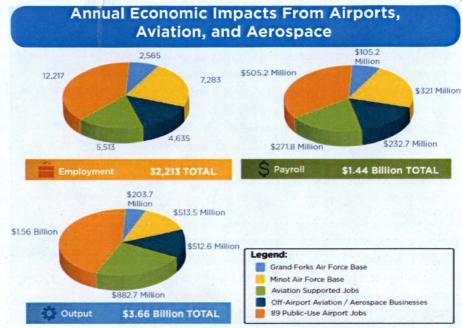


Other Economic Benefits from Aviation and Aerospace

Aside from economic benefits from North Dakota's public-use airports, there are other off-airport aviation and aerospace activities in North Dakota that provide additional economic benefits. These include benefits from:

- · Grand Forks Air Force Base
- · Minot Air Force Base
- Off-Airport Aviation and Aerospace Businesses (including aerial applicators)
- Jobs with Improved Efficiency from Aviation

When airport, military, and off-airport aerospace and aviation activities in North Dakota are combined, they provide the annual economic impact shown to the right. Included in the aviation supported jobs are over 100 aviation and aerospace related jobs at the University of North Dakota; these jobs are in addition to University jobs located at Grand Forks International Airport.



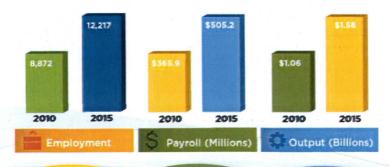
TOTAL FOR ALL AIRPORT / AVIATION / AEROSPACE IMPACTS

Total Employment: 32,213

Total Payroll: \$1.44 billion Total
Output:
\$3.66 billion

Increasing Economic Benefits

Economic impacts for North Dakota's airports were previously estimated in 2010. Information presented here shows how economic impacts from the commercial and general aviation airports in North Dakota have increased over the past five years.



38% INCREASE

47% INCREASE

The North Dakota Statewide Economic Impact Study shows that when all airport, aviation, military, and aerospace activities in North Dakota are considered:

- 32,200 jobs for all airport/aviation/aerospace related activities account for an estimated 8% of North Dakota's total employment which is estimated at 413,000.
- The \$3.7 billion in total annual output for all airport/ aviation/aerospace related activities accounts for an estimated 7% of North Dakota's Real Gross State Product estimated at \$48.2 billion.





ND Aeronautics Commission Members



Cindy Schreiber-Beck, Chair, Wahpeton

Currently Cindy serves as the Executive Director of the North Dakota Agricultural Aviation Association (NDAAA), is the owner of Tri-State Aviation, an FBO with a concentration on WWII aircraft restoration, and manages the Wahpeton Harry Stern Airport. She is active in the local business community and has served on the Commission since 1997.



Dr. Kim Kenville, Vice-Chair, Grand Forks

Kim began teaching for the University of North Dakota's John D. Odegard School of Aerospace Sciences in the fall of 1999 where she currently teaches airport management. Since 2008, Kim has been the director of the graduate program for the Department of Aviation and holds the rank of full professor. Dr. Kenville received her Ph.D. in 2005 from Capella University in Organization and Management. Prior to returning to UND, Kim worked in airport operations for Detroit Metropolitan and Milwaukee County airports. She is a certified member

(C.M.) of the American Association of Airport Executives and holds a private pilot's license. Kim was appointed to the Aeronautics Commission in September of 2011.



Maurice E. Cook, Member, Bismarck

Maurice retired from active legal practice at the end of 2010. During his legal career he served as a State's Attorney, City Attorney, Airport Authority Attorney, Assistant Attorney General as General Counsel for the Bank of North Dakota, as a member and Chairman of the Board of Directors of Prairie Public Broadcasting, ND Civil Air Patrol Wing Commander and ten years as Civil Air Patrol's National Legal Officer. He served as Bond Counsel to numerous ND political subdivisions

and various agencies of the State of North Dakota in the issuance of municipal bonds for thirty years. He holds a multi engine instrument pilot's license and started flying in Hettinger, ND, in 1952. He has been a member of the ND Aeronautics Commission since 1999.



Jay B. Lindquist, Member, Hettinger

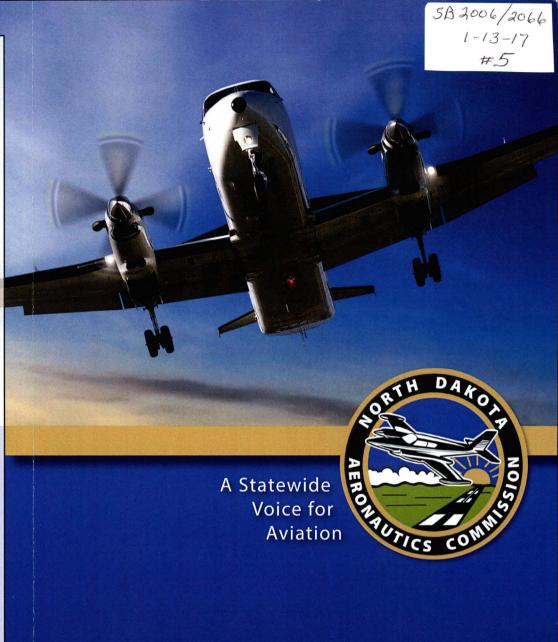
Jay is president of Air Dakota Flite, a full service, fixed base operator (FBO). J.B. has a strong aerial applicator background and has been crop spraying for 50 years. He has been a Certified Flight Instructor and has served as the Manager of the Adams County Municipal Airport, Hettinger, ND for 40 years. His other interests are in retail and farming. J.B. was inducted into the North Dakota Aviation Hall of Fame in 2012. He has been a member of the Commission since 1993.



Warren A. Pietsch, Member, Minot

Warren is president of Pietsch Aircraft Restoration & Repair and Minot Aero Center at the Minot International Airport. Warren soloed at the age of 16 and has continued in aviation. He began chartering for the family business, ventured into airshows in 1981, and worked for ATA Airlines 1989-2008 serving as a captain for L-1011, B-727, B-737. Warren is a current and founding board member of the Dakota Territory Air Museum and the Chief pilot for the Texas

Flying Legends Museum, Houston TX. Holding a single & multi-engine ATP, SeaPlane rating, Commercial glider CFIG & CFIs and is an Aerobatic Evaluator for ICAS, Warren was appointed to the Commission in May of 2012.



Agency Mission

To serve the public by providing economic and technical assistance for the aviation community while ensuring the safe and cost effective advancement of aviation in North Dakota.



2301 University Drive, Bldg. 1652-22 PO Box 5020, Bismarck, ND 58502-5020 (701) 328-9650 • Email: ndaero@nd.gov

Agency History

The North Dakota Aeronautics Commission was established in 1947 by the State Legislature assigning responsibility for the state aviation functions. The Governor appoints the five members of the Aeronautics Commission to the board, for five year terms. The Commission staff is composed of the Director and four support staff. The office location is at the general aviation pilot terminal on the Bismarck Municipal Airport, Bismarck, ND.

Agency Purpose

The North Dakota Aeronautics Commission supports aviation activities in the state through communication with state and local organizations, Federal Aviation Administration (FAA), congressional offices, local airports and national aviation groups. The commission is largely funded through aviation fuel taxes, aircraft excise taxes, and aircraft registrations. This small and efficient state agency is able to leverage its financial efforts by teaming with the FAA, and staying involved with aviation activities across the state through a strong network of communication. The North Dakota Aeronautics Commission appreciates those that assist with airport operations, promote the aviation industry and utilize the airport system that the state has developed.

Public Airports in North Dakota



Agency Activities

ND Passport Program: a booklet stamping program that rewards pilots who fly to North Dakota's publicly-owned airports, visits North Dakota's aviation museums and attend FAA safety seminars.

Flight Training Assistance Program: a program that helps defray additional student pilot costs as a result of direct transportation costs incurred by commuting flight instructors.

Agricultural Operator Alert Map: a map of alert areas (towers, organic farms, ect.) can be found on the aeronautics commission website.

The International Aviation Art Contest: an annual event encouraging students ages six through 17 to express their creativity while celebrating aviation.

North Dakota Aviation Publications and Planning Documents: Aviation Economic Impact Studies, Aeronautical Charts, Airport Directories, State Aviation System Plan, Pavement Condition Index Study for ND Airports.

Regulatory Function: the office is responsible for administering North Dakota's laws in regards to registration of aircraft, aircraft dealers, aerial applicators, and the collection of aircraft excise tax.

Airport Intern Program: Encourages commercial service airports in ND to hire a management intern by providing a stipend to help defray the labor costs.

Aviation Education Grant Funding: The aeronautics commission provides grant funding for aviation education programs. Applications are accepted at any time from aviation enthusiasts, airports, or aviation organizations.

Airport Grant Funding: The aeronautics commission disperses approximately \$2.5 million annually to airports across the state for airport improvement projects. These funds are derived from aviation fuel taxes, aircraft excise taxes, and aircraft registrations.

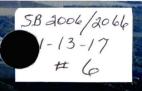
Airport Inspections & Chart Supplement Updates: Each public airport is inspected at least once every three years and safety recommendations are made at the time of each inspection. North Dakota airport information that is used in the FAA Chart Supplement is also updated by the aeronautics commission staff.

Aviation Facts about North Dakota

- On and off-airport aviation related activity in North Dakota creates 32,200 jobs.
- \$1.6 billion in economic output activity is created each year by North Dakota Airports.
- Approximately 4.5 million acres of crops are sprayed annually by aerial applicators.
- More than 2.4 million airline passengers traveled through North Dakota's commercial airports in 2015.
- Approximately 3,600 people hold FAA pilot certificates in North Dakota
- Approximately 2,000 aircraft are registered with the state of North Dakota.

North Dakota Aeronautics Commission Staff Kyle Wanner – Director
Gaye Niemiller – Administrative Officer
Sheila Doll – Licensing Specialist
Jared Wingo – Airport Planner
Benjamin West – Airport Planner
Mike McHugh – Aviation Education Coordinator



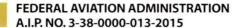


2015 PAVEMENT CONDITION INDEX (PCI) STUDY EXECUTIVE SUMMARY WWW.aero.nd.gov



NORTH DAKOTA______AERONAUTICS COMMISSION

A STATEWIDE VOICE FOR AVIATION





NORTH DAKOTA AERONAUTICS COMMISSION

A STATEWIDE VOICE FOR AVIATION

This document was prepared under the guidance of

North Dakota Aeronautics Commission Kyle C. Wanner, Executive Director Phone: 701-328-9650 www.aero.nd.gov Prepared by:



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applied pavement

TECHNOLOGY

115 W Main Street, Suite 400 Urbana, Illinois 61801 217-398-3977 www.appliedpavement.com



10025 Valley View Road, Suite 140 Eden Prairie, Minnesota 55344 952-646-0236 www.evs-eng.com

Overview



The Airport Pavement Management System (APMS) was developed by the Federal Aviation Administration (FAA) and is intended to provide a consistent and systematic approach to identifying pavement that is in need of maintenance or rehabilitation. The North Dakota Aeronautics Commission (NDAC) developed a customized APMS in accordance with FAA requirements.

An APMS evaluates both the current condition of the pavement as well as predicts a future condition based on the Pavement Condition Index (PCI). This in turn allows the individual airports, the NDAC and the FAA to monitor the condition of the airport pavements and budget for required maintenance to avoid excessive deterioration. The timing of this maintenance or rehabilitation is vital as airport pavement conditions play a crucial role in ensuring the safety of all airport users.

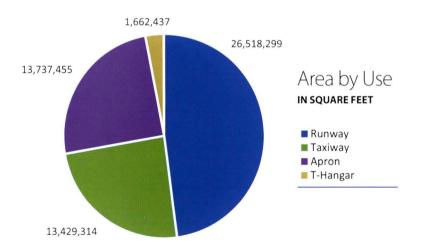
This system is updated every three years to accurately reflect current pavement conditions across the state's airports. In 2012, the APMS was updated to an electronic format to allow the data to be readily available to the airports, the FAA and the NDAC.

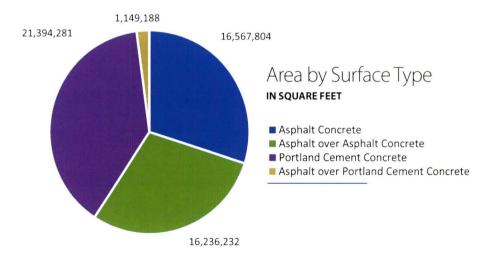
In 2015, Mead & Hunt along with Applied Pavement Technology and EVS conducted the update to the APMS. During the 2015 update, record information collected in the previous three-year cycle has been added to the database. Pavement inspections have been completed, and additional airports have been added that were not part of the previous study. Functionality changes also have been made to the website itself. The findings and recommendations of the APMS update are included in this report. Full results can be found online on the NDAC website, www.aero.nd.gov.

Pavement Inventory

In 2015, a total of 71 airports were assessed for the current project. Of these, 52 were part of the National Plan of Integrated Airport Systems (NPIAS) and 19 were non-NPIAS. NPIAS airports qualify for federal funding. Non-NPIAS airports do not qualify for federal funding and must be funded solely by state and local contributions. Therefore, the FAA only provided funding for pavement inspections and reports for the NPIAS airports as part of this study. NPIAS airports inspected included 7 commercial service airports and 45 general aviation airports. Williston was not inspected as part of the 2015 study due to future relocation of the existing airport. However, Williston's 2012 pavement inventory data was used in the 2015 data analysis and is included as part of the 2015 results. Pavement inventory data includes area, age and condition. Projected costs for Williston were excluded from the funding assessment needs. A PCI of 100 was assumed for all newly constructed pavement or pavement programmed to be reconstructed in the next year. The map on page 5 identifies all of the airports in North Dakota that were included as part of the 2015 APMS update.

These airports represent 55.3 million square feet of pavement – 26.5 million square feet of runway pavement, 13.4 million square feet of taxiway pavement, 13.7 million square feet of apron pavement, and 1.7 million square feet of T-hangar pavement, comprised of both concrete and asphalt, as shown in the *Area by Use* and *Area by Surface Type* pie charts below. Pavement at the airports in the state have an average age of 17 years for commercial service airports and 10 years for general aviation airports. Throughout the years, the airports have performed preventive maintenance and carried out a series of rehabilitation/reconstruction projects to sustain and extend the pavement life. The charts shown on the next page, *Pavement Area by Use* and *Area-Weighted Average Age by Use*, summarize the total square footage of pavements found in the state and the average age of those pavements based on use.





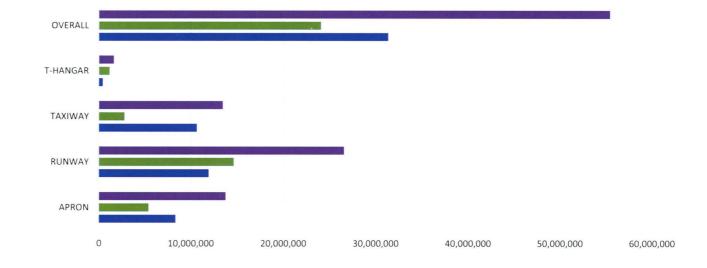
Pavement Area by Use

IN SQUARE FEET

■ Overall State System

■ General Aviation

■ Commercial Service



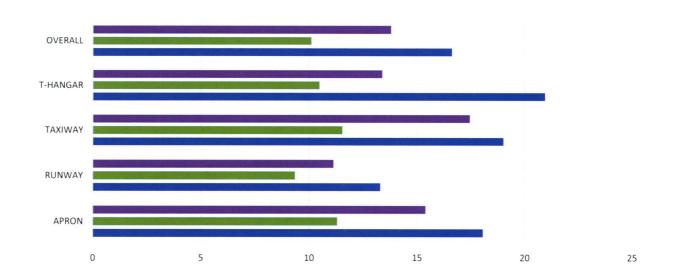
Area-Weighted Average Age by Use

IN YEARS

■ Overall State System

■ General Aviation

■ Commercial Service



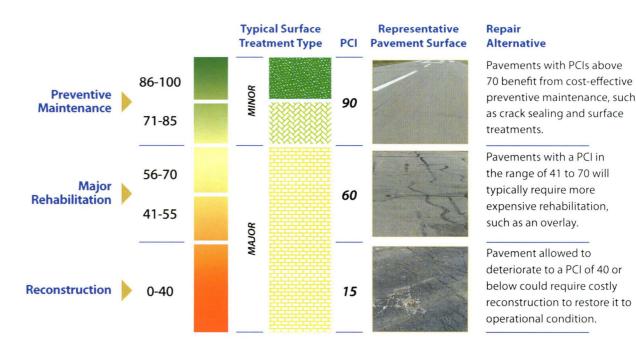
Pavement Evaluation

Pavement Evaluation Procedure

A PCI survey was conducted in accordance with the procedures outlined in American Society for Testing and Materials (ASTM) Standard D5340, Standard Test Method for Airport Pavement Condition Index Surveys and the FAA's Advisory Circular 150/5380-6B, Guidelines and Procedures for Maintenance of Airport Pavements. A PCI survey consists of dividing pavement into a series of sections, selecting random sections for sampling, and inspecting a given portion of each sample section to determine overall pavement deterioration. Pavement deterioration is based on the quantification of the different types, the severity and the number of distresses present in the sample section. This information is then used to formulate a composite index numerical value that represents the overall pavement condition. This value will range from 0 (failed) to 100 (excellent).

As part of the APMS, the PCI will be used to determine current pavement conditions, predict future conditions, develop a maintenance program and identify the most cost-effective time frame to perform major rehabilitation.

The PCI will also aid in tracking and determining causes of deterioration on a pavement. The correlation between a PCI number and a recommended repair is shown in the illustration to the right. Preventive maintenance consists of patching, crack sealing and joint sealing. Pavement rehabilitation includes surface treatments and thin overlays. Pavement reconstruction refers to fulldepth reconstruction and thick overlays. Minor surface treatments are used to address weathering and low-severity raveling. Major surface treatments are used to address medium- and highseverity raveling.

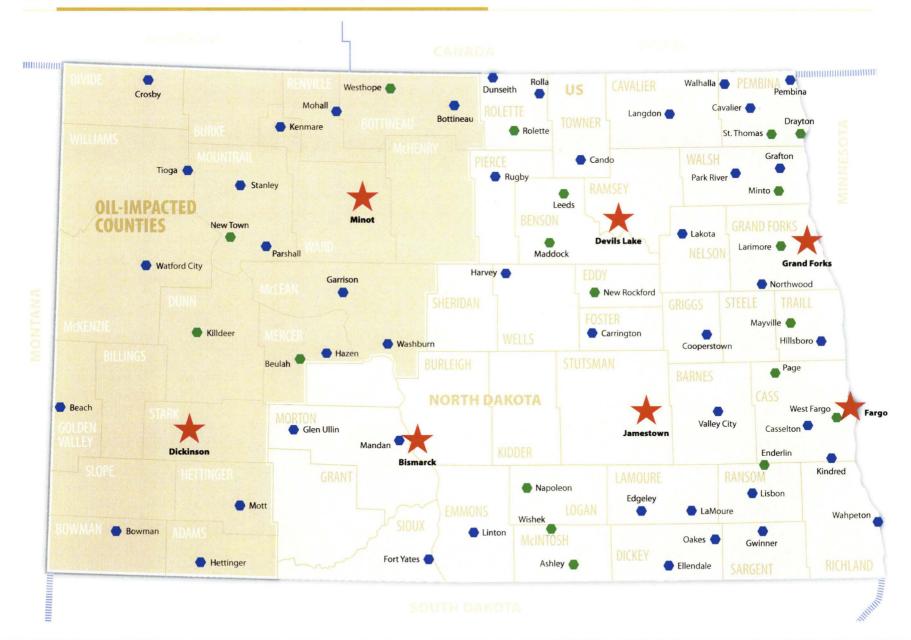




North Dakota Airports included in the 2015 Airport Pavement Management System Update



- General Aviation NPIAS (Federal Funding)
- General Aviation Non-NPIAS (State & Local Funding)



Typical Distress Types

The FAA Advisory Circular provides a list of specific distresses to be analyzed and recorded when inspecting pavement. Airports in North Dakota are a combination of asphalt concrete (AC) pavement and Portland cement concrete (PCC) pavement with there being slightly more AC pavement than PCC pavement. These two pavement types have unique pavement distresses and repairs. The following is a brief description of commonly observed pavement distresses at North Dakota airports.



ALLIGATOR (**FATIGUE**) **CRACKING.** Alligator (fatigue) cracking is a load-related distress. Alligator cracking is caused by excessive tensile strains at the bottom of the AC layer or stabilized asphalt base layer from repeated aircraft loadings. Alligator cracking typically shows up on the surface as a series of parallel cracks, which eventually interconnect to form a pattern resembling the skin of an alligator.



Joint seal Damage. Joint sealant damage is any condition that enables soil or rocks to accumulate in the joints or allows significant infiltration of water. Accumulation of incompressible materials prevents the slabs from expanding and may result in buckling, shattering, or spalling. A pliable joint filler bonded to the edges of the slabs protects the joints from accumulation of materials and also prevents water from seeping down and softening the foundation supporting the slab. Typical types of joint seal damage are: (1) stripping of joint sealant, (2) extrusion of joint sealant, (3) weed growth, (4) hardening of the filler (oxidation), (5) loss of bond to the slab edges, and (6) absence of sealant in the joint.



LONGITUDINAL AND TRANSVERSE CRACKING. The predominant distress type found on asphalt pavements at North Dakota airports is longitudinal and transverse (L&T) cracking. This distress can be caused by any of the following: (1) separation of pavement at paving lane joints, (2) shrinkage of AC pavement due to temperature differentials in older or brittle pavements, or (3) reflection cracking from underlying faults in supportive layers of pavement or subgrade. Cracking is also a common distress type for PCC pavement. This distress is caused by a combination of load repetition, curling stresses, and shrinkage stresses.



RAVELING. As pavements age and are exposed to oxidation and other environmental stresses, they may experience a loss in the material making up the pavement matrix. Raveling is the dislodging and loss of coarse aggregate in the surface of a pavement. The pavement may be showing signs of aging and hardening and may result in the production of FOD.



SPALLING. Spalling, in PCC pavement, is the breakdown of the slab edges in close proximity to the slab joint. Spalling is identified as occurring in the corner or along the joint of a PCC slab. Spalling is typically caused by the introduction of incompressible material in the joint, weaker pavement at the joint caused by overworking of the pavement during construction, traffic loading or a combination of these.



WEATHERING. As pavements age and are exposed to oxidation and other environmental stresses, they may experience a loss in the material making up the pavement matrix. Weathering is the loss of asphalt binder and fine aggregate in the surface of the pavement. The loss of fine matrix material in the surface may eventually lead to the exposure and dislodging of coarse aggregate, leading to raveling and FOD.

Pavement Classification Number (PCN)

A PCN is a value that indicates the strength of a pavement as it relates to aircraft classification numbers, which are assigned to each type of aircraft. Aircraft traffic information as well as subgrade and pavement strengths are critical inputs in determining this value. Pavements at the commercial service airports were analyzed in 2012 to provide a PCN value as detailed in FAA Advisory Circular 150/5335-5B, Standardized Methods of Reporting Airport Pavement Strength – PCN. The PCN is expressed as a five-part code. The first part of the PCN is a numerical value indicating the load-carrying capacity of the pavement. This numerical value is followed by four codes representing the following categories:

PAVEMENT TYPE

R = Rigid

F = Flexible

SUBGRADE STRENGTH

A = High (k-value ≥ 442 psi/in or CBR ≥ 13)

B = Medium (221 psi/in < k-value < 442 psi/in or 8 < CBR < 13)

C = Low (92 psi/in < k-value \leq 221 psi/in or 4 < CBR \leq 8)

 $D = Ultra Low (k-value \le 92 psi/in or CBR \le 4)$

MAXIMUM ALLOWABLE TIRE PRESSURE

W = High (no pressure limit)

X = Medium (146 to 218 psi)

Y = Low (74 to 145 psi)

Z = **Ultra Low** (pressure limited to 73 psi)

PAVEMENT EVALUATION METHOD

T = Technical Evaluation

U = Using Aircraft Evaluation

PCN results were not calculated as part of the 2015 study. The 2012 PCN results for the state are listed in the table below. A detailed PCN report for each airport can be found online on the NDAC website, www.aero.nd.gov.

2012 PCN Results

AIRPORT	BRANCH ID	PCN
Bismarck Municipal	Runway 13-31	42 F/A/W/T
	Runway 3-21	26 F/A/W/T
Devils Lake Regional	Runway 13-31	27 F/D/W/T
	Runway 3-21	26 F/D/W/T
Dickinson Theodore Roosevelt	Runway 14-32	20 F/D/W/T
Regional	Runway 7-25	6 F/D/W/T
Fargo - Hector International	Runway 18-36	95 R/C/W/T
	Runway 9-27	25 R/C/W/T
	Runway 13-31	17 R/D/W/T
Grand Forks International	Runway 17L-35R	9 R/C/W/T
	Runway 17R-35L	35 R/C/W/T
	Runway 9L-27R	24 R/B/W/T
	Runway 9R-27L	10 R/C/W/T
Jamestown Regional	Runway 13-31	79 F/C/W/T
	Runway 4-22	25 F/D/W/T
Minot International	Runway 13-31	43 R/C/W/T
	Runway 8-26	34 F/D/W/T

Analysis of Results

Critical PCI Values

For each year of the analysis, the future condition of each of the pavements was estimated and a determination was made as to whether preventive maintenance or major rehabilitation/reconstruction was the appropriate and most cost-effective method of maintaining pavement life. If a pavement was projected to be above the critical PCI values listed below, the pavement was recommended for preventive maintenance. Major rehabilitation/reconstruction was recommended for any PCI value below the PCI critical thresholds. Surface treatments were identified for viable candidates that exhibited weathering and/or raveling. These were identified separate from the critical value analysis.

- 60 for general aviation taxiways and aprons
- 65 for commercial service taxiways and aprons
- 70 for general aviation runways
- 75 for commercial service runways



Interested in a Particular Airport's Pavement Condition & History?

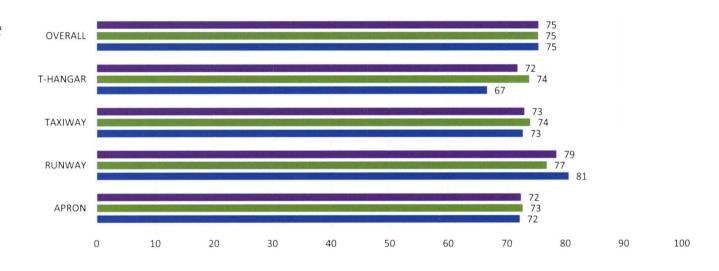
For information on pavement distresses for a specific airport, visit the Interactive Data Exchange Application (IDEA) website by going to www.aero.nd.gov and navigating to "Studies" then "Pavement Condition Index" then "Click Here." Once there, you can view a list of the distresses that were identified as well as a maintenance and rehabilitation plan for each airport. The IDEA site also contains photos of each airport along with an interactive version of the airport's PCI map.

Overall Pavement Condition

Each airport was inspected and an overall area-weighted pavement condition is assigned to each. The information collected at each airport is used to provide greater detail on the uses of pavements and the correlating PCI value associated with each use. The overall area-weighted PCI of all the airports included in this study is 75. The chart below, *Area-Weighted Average PCI Value by Use*, shows the 2015 condition of the pavement broken out by use and airport classification. The *Overall Area-Weighted PCI* table on the next page provides the overall area-weighted PCI for each airport.

Area-Weighted Average PCI Value by Use

- Overall State System
- General Aviation
- Commercial Service



Overall Area-Weighted PCI

AIRPORT NAME	AREA- WEIGHTED PCI
Ashley Municipal	59
Beach	79
Beulah Municipal	84
Bismarck Municipal	69
Bottineau Municipal	82
Bowman Regional	100
Cando Municipal	63
Carrington Municipal	72
Casselton Robert Miller Regional	70
Cavalier Municipal	81
Cooperstown Municipal	53
Crosby Municipal	78
Devils Lake Regional	76
Dickinson Theodore Roosevelt Regional	72
Drayton Municipal	67
Dunseith - International Peace Garden	79
Edgeley Municipal	43
Ellendale Municipal	91
Enderlin - Sky Haven	80
Fargo - Hector International	77
Fort Yates - Standing Rock	82
Garrison Municipal	71
Glen Ullin Regional	80
Grafton - Hutson Field	76
Grand Forks International	80
Gwinner - Roger Melroe Field	96
Harvey Municipal	79

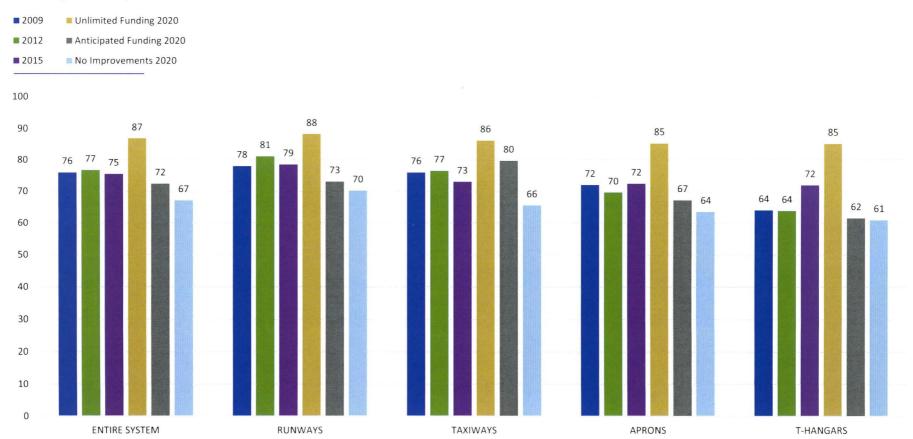
AIRPORT NAME	AREA- WEIGHTED PCI
Hazen - Mercer County Regional	77
Hettinger Municipal	58
Hillsboro Regional	55
Jamestown Regional	62
Kenmare Municipal	93
Killdeer - Dunn County	93
Kindred - Robert Odegaard Field	71
Lakota Municipal	71
LaMoure Rott Municipal	29
Langdon - Robertson Field	46
Larimore Municipal	77
Leeds Municipal	44
Linton Municipal	41
Lisbon Municipal	47
Maddock Municipal	100
Mandan Municipal	85
Mayville Municipal	91
Minot International	82
Minto Municipal	71
Mohall Municipal	85
Mott Municipal	71
Napoleon Municipal	69
New Rockford - Tomlinson Field	63
New Town Municipal	100
Northwood Municipal - Vince Field	43
Oakes Municipal	91
Page Regional	18

	AREA-
	WEIGHTED
AIRPORT NAME	PCI
Park River - W C Skjerven Field	83
Parshall-Hankins	93
Pembina Municipal - Thomas Nord Field	65
Rolette	82
Rolla Municipal	93
Rugby Municipal	76
St. Thomas Municipal	69
Stanley Municipal	80
Tioga Municipal	71
Valley City - Barnes County Municipal	91
Wahpeton - Harry Stern	81
Walhalla Municipal	88
Washburn Municipal	99
Watford City Municipal	77
West Fargo Municipal	83
Westhope Municipal	78
Wishek Municipal	40

Historic Pavement Condition

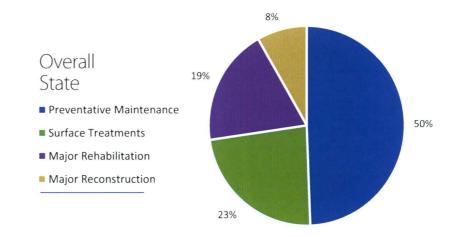
The APMS is updated every three years and it is important to show how the system as a whole is performing from update to update. The *Area-Weighted Average PCI by Use* chart below provides a summary of the 2009 and 2012 historic PCI values; current 2015 PCI values; projected PCI values in 2020 if unlimited funding were available; projected PCI values in 2020 if only the anticipated state budget funding were available; and the projected PCI values in 2020 if no improvements were completed on the existing system.

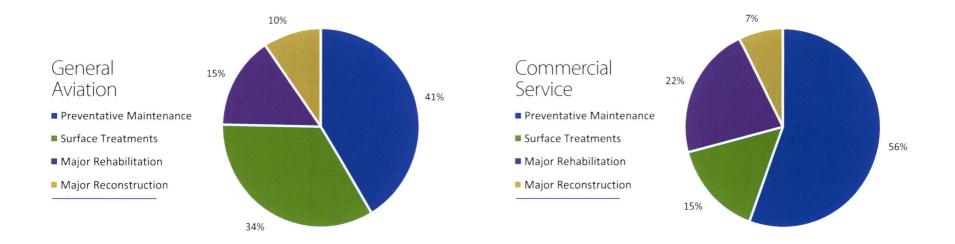
Area-Weighted Average PCI by Use



Pavement Condition Distribution

Approximately 50 percent of the airports included in the 2015 APMS are at the condition level where they will benefit from preventive maintenance actions, such as crack sealing, joint sealing, and patching. Roughly 23 percent would benefit from applying a surface treatment. Approximately 19 percent of the pavement infrastructure is in need of more extensive rehabilitation, while 8 percent is in need of reconstruction to restore the pavement. The following pie charts show the level of work that is needed in the system.





Pavement Funding Assessment

Funding for aviation projects within the state is crucial in order to maintain a steady pavement condition and ensure safety of all aviation users. If no funding is provided for pavement maintenance and repair, North Dakota's pavement system will experience a slow and steady decline in condition. This decline would result in a need for more major rehabilitation or reconstruction projects, which in turn significantly increases future cost.

Using the information collected during the pavement inspection, a rehabilitation program for 2016 through 2020 was developed for every airport in the state. A five-year program was prepared with the goal of maintaining the pavement above the established critical PCI values listed earlier in this report. This program generates a major rehabilitation recommendation for pavement in the year they drop below their critical PCI.

If all projects identified in the PCI study were funded, an approximate total of \$181 million would be needed during the next five years – \$105.1 million for commercial service airports and \$75.9 million for general aviation airports. The unlimited budget funding for individual airport needs through 2020 are summarized in the table shown to the right, *Five-Year Funding Plan*. This analysis is for 2016 through 2020 with an inflation factor of four percent when calculating future cost of work. The unit costs used to estimate overall project costs are based on averages of recent projects completed throughout the state. These costs are averages and are not intended to be used for specific project planning purposes. Money identified in an unlimited budget scenario is to maintain or rehabilitate existing infrastructure and does not include any additional needs or improvements made.

Five-Year Funding Plan

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
Commercial Service	Bismarck Municipal	\$20,141,319
	Devils Lake Regional	\$5,168,798
	Dickinson Theodore Roosevelt Regional	\$8,443,856
	Fargo - Hector International	\$26,825,163
	Grand Forks International	\$16,429,217
	Jamestown Regional	\$13,353,434
	Minot International	\$14,764,949
Five-Year Commerci	al Service Funding Total	\$105,126,736
General Aviation	Beach	\$833,072
(NPIAS)	Bottineau Municipal	\$384,900
	Bowman Regional*	\$0
	Cando Municipal	\$1,866,699
	Carrington Municipal	\$1,741,238
	Casselton Robert Miller Regional	\$4,275,086
	Cavalier Municipal	\$1,114,929
	Cooperstown Municipal	\$1,933,878
	Crosby Municipal	\$1,320,059
	Dunseith - International Peace Garden	\$95,764
	Edgeley Municipal	\$2,599,711
	Ellendale Municipal	\$350,709
	Fort Yates - Standing Rock	\$232,100
	Garrison Municipal	\$1,643,969
	Glen Ullin Regional	\$1,361,368
	Grafton - Hutson Field	\$1,153,065
	Gwinner - Roger Melroe Field	\$127,003
	Harvey Municipal	\$383,986
	Hazen - Mercer County Regional	\$2,085,064

^{*} No or minimal five-year funding needed because airport was recently constructed or reconstructed.

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
General Aviation	Hettinger Municipal	\$4,236,058
(NPIAS)	Hillsboro Regional	\$2,900,094
	Kenmare Municipal	\$187,004
	Kindred - Robert Odegaard Field	\$2,548,473
	Lakota Municipal	\$1,755,477
	LaMoure Rott Municipal	\$2,495,926
	Langdon - Robertson Field	\$2,780,281
	Linton Municipal	\$2,788,554
	Lisbon Municipal	\$2,362,470
	Mandan Municipal	\$1,692,069
	Mohall Municipal	\$372,430
	Mott Municipal	\$284,808
	Northwood Municipal - Vince Field	\$2,831,781
	Oakes Municipal	\$327,941
	Park River - W C Skjerven Field	\$234,257
	Parshall-Hankins	\$203,261
	Pembina Municipal - Thomas Nord Field	\$1,943,878
	Rolla Municipal	\$404,465
	Rugby Municipal	\$461,607
	Stanley Municipal	\$1,080,600
	Tioga Municipal	\$2,033,820
	Valley City - Barnes County Municipal	\$196,511
	Wahpeton - Harry Stern	\$1,921,626
	Walhalla Municipal	\$288,251
	Washburn Municipal	\$10,096
	Watford City Municipal	\$1,517,867
Five-Year General Av	iation NPIAS Funding Total	\$61,362,205

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
General Aviation	Ashley Municipal	\$2,403,220
(Non-NPIAS)	Beulah Municipal	\$297,012
	Drayton Municipal	\$459,907
	Enderlin - Sky Haven	\$379,776
	Killdeer - Dunn County*	\$35
	Larimore Municipal	\$594,863
	Leeds Municipal	\$1,872,596
	Maddock Municipal*	\$0
	Mayville Municipal	\$574,093
	Minto Municipal	\$327,389
	Napoleon Municipal	\$231,099
	New Rockford - Tomlinson Field	\$1,685,344
	New Town Municipal*	\$0
	Page Regional	\$1,097,942
	Rolette	\$412,820
	St. Thomas Municipal	\$862,280
	West Fargo Municipal	\$725,030
	Westhope Municipal	\$77,601
	Wishek Municipal	\$2,534,289
Five-Year General Avi	ation Non-NPIAS Funding Total	\$14,535,296
Five-Year Statewide	Funding Total	\$181,024,237

 $^{{}^{*}}$ No or minimal five-year funding needed because airport was recently constructed or reconstructed.

Summary



This report summarizes the results of the pavement evaluation conducted in North Dakota as part of the state APMS database update for airports. This includes 7* NPIAS commercial service airports, 45 NPIAS general aviation airports and 19 non-NPIAS general aviation airports. The system currently has 55.3 million square feet of pavement – 31.3 million square feet at commercial service airports and 24 million square feet at general aviation airports. In 2012, the PCI value for the state was 77. During a visual inspection of the pavements in 2015, it was found that the current weighted PCI of the pavement network is 75. If no funding is provided, this PCI value will steadily fall to 67 by the end of 2020. If the state budget anticipated funding is provided, the 2020 overall PCI value of the system is anticipated to be 72. If all work identified were to be completed, the 2020 overall PCI of the system is anticipated to increase to a value of 87.

Approximately \$181 million in funding would be needed over the next five years to complete all work that has been identified in the unlimited budget scenario. This includes approximately \$105.1 million for commercial service airports and \$75.9 million for general aviation airports. Additional information can be found by visiting the NDAC website, www.aero.nd.gov.

^{*} Williston was not inspected as part of the 2015 study. The 2012 Williston pavement inventory data used as part of the analysis includes area, age and condition but does not include the cost.





NORTH DAKOTA_____AERONAUTICS COMMISSION A STATEWIDE VOICE FOR AVIATION

SB 2006/2066 1-13-17 #1





STATEWIDE ECONOMIC IMPACT OF AVIATION IN NORTH DAKOTA



2015
Executive Summary



INTRODUCTION

North Dakota's economy has recently undergone significant growth, driven primarily by energy exploration, production, and transportation. Airports in North Dakota are essential to supporting the state's economy. The state's economic growth has resulted in increased activity at many North Dakota airports. This increased activity has resulted in the growth of economic benefits that airports provide to the communities they serve.

North Dakota airports have responded to increased aviation activity generated by recent economic growth. More visitors flying for business are using commercial airports and are flying to the state on general aviation planes. Visitors to North Dakota are staying longer and spending more. Flights by larger and more demanding general aviation business jets have increased at many airports. General aviation planes connect North Dakota to business centers throughout the country.

Since statewide economic impacts were last measured in 2010:

- Annual economic benefits from public-use airports in North Dakota and the activities they support have increased 47%.
- Jobs supported by North Dakota airports have grown from 8,872 to 12,217, an increase of 3,345 jobs.
- Annual state and local sales tax revenues for airports and airport supported activities have increased from \$31.1 million to over \$60 million.
- Visitors coming to North Dakota each year on general aviation aircraft or commercial airline flights have grown from 545,300 to 915,290.



Airports Have Expanded Existing Facilities

Minot International is constructing a new passenger terminal.

Passenger boardings have increased from 90,820 (2010) to 222,144 (2014), a 145% increase.

Airports Have Built New Facilities

Bowman recently constructed a new airport with a runway of 5,700 feet. This length enables larger business jets to reach the community.

Additional Aviation Businesses Have Been Attracted

Increased activity at the Tiago Municipal Airport attracted Tioga Aero Center in 2014. This aircraft service provider offers fuel, storage, maintenance, and ground transportation.

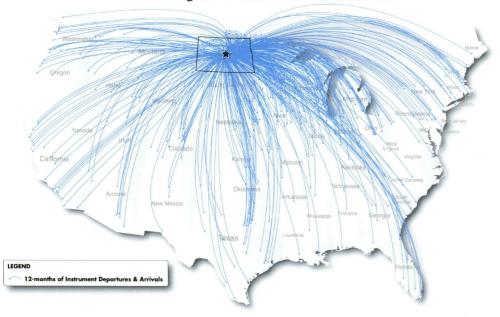


North Dakota Public-Use Airports



Business Connections

Direct Flights To and From North Dakota

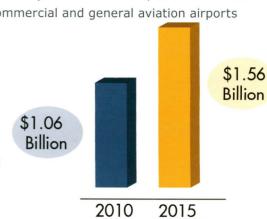


This report, authorized by the North Dakota Aeronautics Commission (NDAC), summarizes how growth at North Dakota's eight commercial service and 81 general aviation airports translates into higher annual economic impacts for the communities these airports serve and for the state. More detailed information on the study is available from the NDAC.

Change in Annual Airport Related Economic Impacts

When the economic impact of North Dakota's airport system was last measured in a study released in 2010, the total annual economic impact of commercial and general aviation airports was measured at

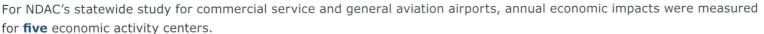
\$1.06 billion. Just five years later, the total annual economic impact for the commercial and general aviation airports has increased to \$1.56 billion—a 47% increase.



North Dakota airports connect the state to business centers throughout the U.S. This map shows recorded instrument flight rule (IFR) arrivals and departures to the state over the last 12 months—most of these flights were on general aviation aircraft. According to FAA data, non-stop flights represent only 3% of all aircraft arrivals and departures to North Dakota airports over the past 12 months. This map clearly shows the important role that airports play in providing the transportation infrastructure that has supported the state's recent economic growth.



SOURCES OF AIRPORT ECONOMIC IMPACTS





Economic Activity Centers

Learner Meriting Certificial				
Airport Management	Activities undertaken by airport employees to operate the airport on a daily basis.			
Airport Tenants	Aviation-related businesses that provide airport, aircraft, or customer services.			
Capital Improvement Spending	Average annual investment made to maintain, improve, or expand an airport.			
Commercial Visitor Spending General Aviation Visitor Spending	Spending by visitors to North Dakota who arrive by air that supports hotels, restaurants, and other visitor-related activities.			

5 Sources of Economic Impacts

On-Airport

- 1 Airport Management
- 2 Aviation-Related Tenants / Businesses
- 3 Investment for Capital Improvements

Off-Airport

- 4 Visitors Arriving on Commercial Airlines
- 5 Visitors Arriving on General Aviation Aircraft



Measurements of Economic Impacts



For each of these five categories, annual economic impacts were measured for jobs, payroll, and output. While employment and payroll measures are easy to understand, output is more complex. Output for airport management and airport tenants is generally equal to the purchase of goods and services needed by these two groups to support their operations or to run their businesses.

Output for capital improvement investment is equal to the average annual amount actually spent by federal, state, local, and private contributors to maintain and improve the airports. The annual spending of visitors in North Dakota is equal to direct output in the visitor category.



2015 TOTAL STATEWIDE ECONOMIC IMPACTS

NDAC's statewide economic impact study estimated annual economic impacts for each of the five activity centers. It is important to understand that impacts shown in this report represent a "snapshot in time," reflecting conditions at North Dakota airports when the study was prepared in the 2014/2015 time frame. While economic impacts from airport management, airport tenants, and visitor spending can change year-to-year, economic impacts from capital investment have a higher propensity to change between reporting periods.

Remaining portions of the summary provide more detail on economic impacts for each category and a general overview of the methodology used to complete the economic impact analysis. Other economic benefits associated with aviation and aerospace in North Dakota are also presented.

	TOTAL EMPLOYMENT	TOTAL PAYROLL	TOTAL OUTPUT
Total Airport Management	232	\$13.4 million	\$85.5 million
Total Airport Tenants	4,207	\$223.9 million	\$626.7 million
Total Capital Investments	1,156	\$63.5 million	\$173.0 million
Total General Aviation Visitors	854	\$26.9 million	\$101.1 million
Total Commercial Visitors	5,768	\$177.6 million	\$578.1 million
Total Statewide Annual Impacts	12,217	\$505.2 million	\$1.56 billion

Estimates Include Total Statewide Direct and Indirect Impacts







ECONOMIC IMPACT METHODOLOGY

Airport-related economic impacts measured in this study came from five sources: airport management, airport tenants, capital improvement spending, spending from visitors arriving on commercial airlines, and spending from visitors arriving on general aviation aircraft. For each of these five categories, economic impacts are estimated for jobs, annual payroll, and annual output.

For each impact category and each measurement, the process to estimate total economic impacts starts with estimating "direct" impacts. Once direct impacts for jobs, payroll, or output enter the North Dakota economy, other successive waves of economic impact occur. These additional impacts are "indirect impacts" but are sometimes more commonly referred to as "multiplier" impacts. Together, direct and indirect impacts equal total annual economic impact for individual airports and the state. The following pages discuss economic impacts for the five activity centers.



Indirect Impact Example

Sam is employed by the airport. This week when Sam receives his pay from the airport, he takes his "direct" salary and pays a baby sitter, takes the family dog to the vet and pays for their services, and pays a teacher for his daughter's piano lesson. Direct payroll that started at the airport has now entered the economy of the community where Sam lives. As this example shows, Sam's "direct" airport job and pay help to support other "indirect" jobs, payroll, and output for the babysitter, the vet, and the piano teacher. In this study, the IMPLAN model*, with data sets specific to North Dakota, was used to estimate all indirect economic impacts in the employment, payroll, and output categories.

* Intormation on the IMPLAN model is available in the study's technical report

Impact Measures

For this report, economic impacts are expressed in terms of jobs, payroll, and total annual economic output. Each of these measures include the direct, indirect, and total impacts.







ANNUAL ECONOMIC IMPACTS FROM AIRPORT MANAGEMENT

Throughout North Dakota people are employed to manage, operate, and maintain the eight large commercial service airports and the 81 general aviation airports. These employees can be full-time, part-time, or seasonal. Interviews conducted for this study show that most often employees in the airport management function are located at the airport, but sometimes the airport management employees work in off-airport locations.

To translate part-time and seasonal jobs into full-time positions, each airport furnished information on the number of hours part-time employees work specifically to support the airport. This information provides a more accurate means to estimate how the part-time and seasonal workforce contributes to the full-time employment at each airport.

As part of this study, extensive outreach with airport managers throughout North Dakota was completed to gather information on direct employment, payroll, and annual purchases for goods and services (output) needed to run each airport. Many times, airport managers were interviewed in person, especially at the commercial service airports and larger general aviation airports. Airport managers also played an important role in this study, verifying direct economic impacts for their airport for all five impact categories. Airport Management statewide annual economic impacts, which include the direct and indirect impacts for all study airports, are shown in the accompanying table.

Total Annual Statewide Economic Impact Airport Management

EMPLOY	MENT	PAYROLL		OL	JTPUT
• Direct	154	• Direct	\$9.6 million	• Direct	\$56.2 millio
• Indirect	<i>7</i> 8	• Indirect	\$3.8 million	• Indirect	\$29.3 millio
• Total	232	• Total	\$13.4 million	• Total	\$85.5 millio

Airport Management 232 jobs \$ Annual Payroll \$13.4 million Annual Output \$85.5 million





ANNUAL ECONOMIC IMPACTS FROM AIRPORT TENANTS

There are many types of aviation-related businesses that operate at study airports. These businesses provide various types of aviation-related services to support aircraft and airport customers. Examples of airport tenants include, but are not limited to: Fixed Based Operators (FBOs); aircraft maintenance providers; aircraft charter, rental, and sales companies; air ambulance operators; aerial applicators; military units located at civilian airports; air cargo companies; ground transportation providers; flight schools; airlines; and corporate flight departments. Airport tenants who are not aviation-related are not included in this analysis.

For this study, all airport managers provided contact information for their aviation-related tenants. All tenants were contacted directly to obtain information on their full-time, part-time, and seasonal employment; annual payroll; and annual operating expenses (output). Tenants at North Dakota's airports were the primary source of direct impacts reported in this category. Indirect impacts (multiplier) for all airport tenant employment, payroll, and output were estimated using the IMPLAN model. Total statewide annual economic impacts for airport tenants are shown below.

Airport Tenants 4,207 jobs \$ Annual Payroll \$223.9 million Annual Output \$626.7 million

Total Annual Statewide Economic Impact Airport Tenants

EMPLOYMENT
 Direct 2,738
 Indirect 1,469
 Total 4,207

PAYROLL

• Direct \$150.5 million

• Indirect \$73.4 million

• Total \$223.9 million

OUTPUT

• Direct \$408.3 million

• Indirect \$218.4 million

• Total \$626.7 million

Source: North Dakota Airport Tenants





ANNUAL ECONOMIC IMPACTS FROM CAPITAL INVESTMENT

Each year, federal, state, local, and private funds are invested to maintain, improve, and expand public-use airports in North Dakota. For each of the last three years, this combined investment has reach almost \$100 million per year. Recently, the North Dakota Legislature, FAA, and some local communities responded to growing airport infrastructure needs by allocating additional funds to help North Dakota's airports keep pace with the state's surging economy. Direct output in the capital investment category supports additional jobs and the payroll associated with those jobs, which were estimated with IMPLAN.

Economic impacts related to capital investment only exist when actual spending is taking place. Once a project is finished, employment, payroll, and output impacts in this category cease. When capital investment at an airport changes significantly, economic impacts stemming from this activity center also change.

To estimate economic impacts related to capital investment, a three-year average for annual capital investment at each study airport was developed. Information for airport-specific capital investment was provided by NDAC, FAA, study airports, and tenants at various airports. For this economic activity center, annual capital investment for each study airport is equal to its direct annual output. Based on estimated average annual investment, IMPLAN provides ratios which are used to estimate "direct" jobs and payroll supported by direct output, in this case average annual capital investment. IMPLAN also estimates "indirect" impacts associated with each capital investment impact measure: employment, payroll, and output provided by NDAC, FAA, airports, and tenants.

Total Annual Statewide Economic Impact Capital Investments

	Suprem in testinents							
EMPLOYMENT PAYROLL			OL	ITPUT				
• Direct	534	• Direct	\$39.8 million	Direct	\$99.4 million			
• Indirect	622	• Indirect	\$23.7 million	• Indirect	\$73.6 million			
• Total	1,156	• Total	\$63.5 million	• Total	\$173.0 million			

Average Annual Capital Investment 1,156 jobs \$ Annual Payroll \$63.5 million Annual Output \$173.0 million





ANNUAL ECONOMIC IMPACTS FROM COMMERCIAL AND GENERAL AVIATION VISITOR SPENDING

North Dakota's economic growth has resulted in more visitors, particularly business-related visitors, arriving to the state by air. These visitors are staying longer and spending more. Estimates of visitors arriving in North Dakota on a commercial airline were developed using each airport's annual enplaned passengers and information from USDOT on the portion of these enplanements that are residents versus visitors.

The process to develop estimates of visitors arriving on general aviation aircraft was much more complex and involved several rounds of input from study airports and NDAC staff. Estimates developed in this study of visitors arriving on general aviation aircraft were individualized for each commercial and general aviation airport.

According to airport and USDOT information, an estimated 533,112 visitors arrive annually in North Dakota on commercial airline flights, and 382,177 visitors arrive on general aviation aircraft. Once in North Dakota, visitors have expenditures for items such as lodging, food, entertainment, retail, and ground transportation services. To capture specific visitor spending patterns on a per trip basis, visitors completed more than 4,000 surveys. These surveys were completed with assistance from airports throughout North Dakota. Using survey information, airport-specific estimates for spending per visitor trip were developed. It is important to note that a high percentage of visitors who come to North Dakota on general aviation aircraft do not spend the night. Some business visitors specifically use general aviation aircraft for travel so that they can shorten the length of their trip.

Similar to capital investment, annual "direct output" for the visitor category is equal to annual visitor spending. Once direct visitor spending was estimated, IMPLAN was used to estimate the number of direct jobs and payroll that direct visitor spending supports. The following table shows estimated annual economic impacts for the general aviation visitor category. It is important to note that visitors traveling to North Dakota on general aviation aircraft arrive at both commercial and general aviation airports.

General Aviation Visitor Spending **EMPLOYMENT PAYROLL** OUTPUT \$16.3 million Direct 619 Direct \$64.0 million Direct 235 Indirect \$10.5 million \$37.1 million Indirect Indirect • Total 8.54 • Total \$26.9 million \$101.1 million Total Source: Airport Managers, Surveys, and IMPLAN





North Dakota's economic growth has attracted a growing number of visitors. These visitors arrive on commercial airline flights and on general aviation aircraft.

Not only are more visitors coming to North Dakota—these visitors are staying longer and spending more. The Annual and Average Spending Per Trip graphic shows, on a per trip basis, the average spending of visitors arriving on general aviation aircraft and on commercial airlines. It also shows how spending on a per trip basis for both types of visitors has increased since 2010.



Commercial Visitor Spending

EMPLOYMENT PAYROLL			, OL	JTPUT	
• Direct	4,151	• Direct	\$105.4 million	• Direct	\$360.9 million
• Indirect	1,617	• Indirect	\$72.2 million	• Indirect	\$217.2 million
• Total	<i>5,7</i> 68	• Total	\$177.6 million	• Total	\$578.1 million

Spending per Commercial Visitor Trip

	ANNUAL COMMERCIAL VISITORS	TOTAL VISITOR SPENDING	SPENDING PER TRIP
Bismarck	110,342	\$68.8 million	\$624
Devils Lake	1,890	\$0.70 million	\$374
Dickinson	25,891	\$15.80 million	\$612
Fargo	179,539	\$96.10 million	\$535
Grand Forks	62,824	\$35.10 million	\$558
Jamestown	3,542	\$1.40 million	\$400
Minot	95,669	\$80.90 million	\$846
Williston	53,415	\$61.90 million	\$1,160

Residents and visitors comprise the annual passenger boardings; this table shows only visitor related boardings for each commercial airport.

Increase in North Dakota Air Visitors

	2010	2015	Increase
General Aviation Visitors	222,318	382,177	72%
Commercial Visitors	322,983	533,112	65%

Annual and Average Spending Per Trip





INDIVIDUAL AIRPORT ECONOMIC IMPACTS

This table presents current total annual economic impacts for each study airport. These estimates reflect total impacts, both direct and indirect, for airport management, airport tenants, capital investment, and all visitor-related spending. More information on impacts for individual airports is available in the study's technical report.

For the employment category, the table also shows how direct and indirect jobs contribute to total employment for each airport. **It is important to**remember that direct jobs presented here come from as many as five activity centers. Indirect employment shown for each airport was

estimated using the IMPLAN model. Together, direct and indirect impacts represent the total employment impacts reported for each airport.

	EMPLOYMENT		TOTAL	TOTAL		
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Bismarck	Bismarck Municipal	1,301	825	2,126	\$86,510,312	\$279,744,887
Devils Lake	Devils Lake Regional	59	30	89	\$4,013,851	\$11,811,488
Dickinson	Dickinson-Theodore Roosevelt Regional	314	161	475	\$20,322,935	\$76,618,095
Fargo	Hector International	2,391	962	3,353	\$142,166,337	\$387,465,584
Grand Forks	Grand Forks International	1,147	522	1,669	\$73,622,396	\$199,368,171
Jamestown	Jamestown Regional	65	55	120	\$4,797,458	\$24,425,703
Minot	Minot International	1,357	628	1,985	\$74,678,827	\$254,598,258
Williston	Sloulin Field International	1,004	470	1,474	\$57,256,315	\$209,047,988
Total Comme	ercial Airports Impacts	7,638	3,653	11,291	\$463,368,431	\$1,443,080,174
Arthur	Arthur	0	0	0	\$0	\$23,250
Ashley	Ashley Municipal	13	4	17	\$806,986	\$2,382,031
Beach	Beach	6	7	13	\$283,851	\$656,324
Beulah	Beulah	10	3	13	\$625,781	\$1,708,123
Bottineau	Bottineau Municipal	7	3	10	\$522,677	\$1,546,789
Bowbells	Bowbells Municipal	0	0	0	\$0	\$8,200
Bowman	Bowman Regional	40	44	84	\$4,546,230	\$11,879,439
Cando	Cando Municipal	6	8	14	\$448,730	\$1,821,461
Carrington	Carrington Municipal	9	5	14	\$471,458	\$1,586,478
Casselton	Casselton Robert Miller Regional	32	23	55	\$2,192,020	\$5,610,341
Cavalier	Cavalier Municipal	10	4	14	\$573,265	\$1,933,077
Columbus	Columbus Municipal	0	0	0	\$0	\$3,000
Cooperstown	Cooperstown Municipal	2	1	3	\$129,618	\$431,535

1 1 1 1 1 1			MPLOYME	NT	TOTAL	TOTAL
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Crosby	Crosby Municipal	6	7	13	\$452,141	\$1,473,286
Drayton	Drayton Municipal	1	0	1	\$64,809	\$185,378
Dunseith	International Peace Garden	<1	0	<1	\$0	\$69,753
Edgeley	Edgeley Municipal	5	4	9	\$408,353	\$1,261,884
Elgin	Elgin Municipal	0	0	0	\$0	\$3,625
Ellendale	Ellendale Municipal	4	5	9	\$246,800	\$1,031,194
Enderlin	Sky Haven	0	0	0	\$0	\$72,892
Fessenden	Fessenden-Streibel Municipal	5	2	7	\$336,038	\$874,424
Fort Yates	Standing Rock	<1	0	<1	\$0	\$7,133
Gackle	Gackle Municipal	<1	0	<1	\$0	\$7,686
Garrison	Garrison Municipal	4	2	6	\$302,006	\$819,976
Glen Ullin	Glen Ullin Regional	1	1	2	\$123,212	\$353,985
Grafton	Hutson Field	12	7	19	\$846,433	\$2,337,041
Gwinner	Gwinner-Roger Melroe Field	13	14	27	\$1,168,122	\$3,701,214
Harvey	Harvey Municipal	4	1	5	\$236,927	\$702,922
Hazelton	Hazelton Municipal	0	0	0	\$0	\$23,250
Hazen	Mercer County Regional	3	1	4	\$145,456	\$557,298
Hettinger	Hettinger Municipal	13	7	20	\$955,530	\$2,693,237
Hillsboro	Hillsboro Regional	18	6	24	\$887,146	\$2,922,895
Kenmare	Kenmare Municipal	17	9	26	\$1,301,723	\$3,034,219
Killdeer	Dunn County Airport - Weydahl Field	11	13	24	\$1,564,863	\$3,065,201
Kindred	Robert Odegaard Field	7	2	9	\$340,767	\$3,626,376
Kulm	Kulm Municipal	2	1	3	\$150,192	\$270,422



		E/	EMPLOYMENT		TOTAL	TOTAL
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Lakota	Lakota Municipal	0	0	0	\$0	\$131,082
LaMoure	LaMoure Rott Municipal	2	1	3	\$129,618	\$361,906
Langdon	Robertson Field	5	4	9	\$289,506	\$1,053,010
Larimore	Larimore Municipal	9	3	12	\$507,389	\$1,886,989
Leeds	Leeds Municipal	1	1	2	\$70,700	\$225,343
Lidgerwood	Lidgerwood Municipal	0	0	0	\$0	\$9,443
Linton	Linton Municipal	9	3	12	\$508,504	\$1,589,613
Lisbon	Lisbon Municipal	3	2	5	\$311,872	\$699,239
Maddock	Maddock Municipal	7	5	12	\$1,230,638	\$2,012,105
Mandan	Mandan Municipal	38	29	67	\$3,149,158	\$8,950,629
Mayville	Mayville Municipal	11	9	20	\$778,094	\$2,436,563
McClusky	McClusky Municipal	<1	. 0	<1	\$0	\$7,117
McVille	McVille Municipal	0	0	0	\$0	\$23,450
Milnor	Milnor Municipal	0	0	0	\$0	\$38,448
Minto	Minto Municipal	5	1	6	\$301,736	\$806,069
Mohall	Mohall Municipal	12	7	19	\$631,793	\$2,180,976
Mott	Mott Municipal	3	1	4	\$195,633	\$493,806
Napoleon	Napoleon Municipal	2	1	3	\$129,618	\$372,540
New Rockford	Tomlinson Field	1	0	1	\$64,809	\$217,776
New Town	New Town Municipal	10	12	22	\$1,315,808	\$3,217,102
Northwood	Northwood Municipal- Vince Field	5	1	6	\$254,467	\$877,356
Oakes	Oakes Municipal	9	10	19	\$637,092	\$2,337,630
Page	Page Regional	9	4	13	\$498,619	\$2,085,675
Park River	Park River-WC Skjerven Field	6	2	8	\$388,854	\$1,108,549
Parshall	Parshall-Hankins	4	3	7	\$440,805	\$1,106,385
Pembina	Pembina Municipal	7	3	10	\$405,928	\$1,400,955
Plaza	Trulson Field	0	0	0	\$0	\$3,000
Richardton	Richardton	0	0	0	\$0	\$6,033
Riverdale	Garrison Dam	<1	0	. <1	\$1,800	\$17,369
Riverdale	Recreational					

		E	APLOYME	NT	TOTAL	TOTAL
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Rolla	Rolla Municipal	12	9	21	\$866,159	\$2,680,203
Rugby	Rugby Municipal	5	4	9	\$380,677	\$1,040,119
St. Thomas	St. Thomas Municipal	2	1	3	\$129,618	\$357,925
Stanley	Stanley Municipal	11	9	20	\$928,496	\$2,442,100
Tioga	Tioga Municipal	23	11	34	\$1,492,413	\$3,878,182
Towner	Towner Municipal	0	0	0	\$0	\$24,050
Turtle Lake	Turtle Lake Municipal	0	0	0	\$0	\$51,241
Valley City	Barnes County	14	8	22	\$901,786	\$2,803,132
	Municipal					
Wahpeton	Harry Stern	25	11	36	\$1,446,088	\$4,397,025
Walhalla	Walhalla Municipal	7	5	12	\$580,058	\$1,559,947
Washburn	Washburn Municipal	0	0	0	\$0	\$138,429
Watford City	Watford City Municipal	28	16	44	\$2,063,056	\$5,205,805
West Fargo	West Fargo Municipal	8	4	12	\$374,063	\$1,262,928
Westhope	Westhope Municipal	2	1	3	\$129,618	\$355,215
Wishek	Wishek Municipal	0	0	0	\$0	\$85,259
Total General	Aviation Airports Impacts	558	368	926	\$41,879,078	\$121,272,197
Total All Airpo	rts Impacts	8,196	4,021	12,217	\$505,247,509	\$1,564,352,371

Source: Airport Managers, Tenants, Surveys, NDAC, USDOT, IMPLAN, Dun & Bradstreet, and Manta









OTHER AVIATION / AEROSPACE ECONOMIC AND BENEFITS OF NORTH DAKOTA AIRPORTS

Aside from the 12,217 jobs, the \$505.2 million in annual payroll, and the \$1.56 billion in annual output, there are many, yet sometimes less visible activities that airports in North Dakota support. These activities include healthcare, emergency services, energy inspections, environmental patrols, research, and other vital services that help to improve the health, welfare, and safety of residents and business throughout the state. Having a general understanding of these additional benefits helps provide a better understanding of all of the different ways North Dakota airports support the communities they serve.



- **Healthcare** This study identified approximately 40 clinics and/or hospitals in North Dakota that rely on public-use airports. Several have doctors using general aviation aircraft to reach patients in small communities throughout the state. Small hospitals and clinics do not have a local patient base sufficient to support specialty doctors—flying doctors in North Dakota fill this void. Airports in North Dakota play an important role in providing both routine and advanced healthcare services.
- Emergency Services Fixed-wing aircraft and helicopters use North Dakota airports to transport North Dakota residents requiring time-sensitive care to larger medical facilities, both within and beyond the state. These lifesaving services cannot be assigned a dollar value, and essentially any airport in the state is a candidate for supporting emergency medical services.
- Education The University of North Dakota (UND) is home to one of the nation's leading aviation and aerospace programs, the John D. Odegard School of Aerospace Sciences. UND is educating tomorrow's airport managers, pilots, and air traffic controllers. Other colleges and universities in North Dakota also report that airports are essential to their ability to expand their market areas for attracting students, both domestic and international. Air access is import to helping North Dakota's centers of higher learning attract and retain the most qualified teaching and research staff.
- Research North Dakota was successful in being one of six states selected by the FAA as a test site for Unmanned Aerial Systems (UAS) research. There are many potential practical private and public applications for UAS technology. Grand Sky, located in Grand Forks, is a multi-faceted center for advancing UAS applications and technology. Companies in North Dakota are leading the way in exploring uses for this emerging technology. Some estimates indicate that as many as 3,000 new jobs could be supported by UAS in North Dakota by 2025.
- Taxes Activities at airports and activities supported by airports make significant contributions to state and local tax revenues. A significant portion of these tax revenues are collected as a result of spending by visitors who come to North Dakota on general aviation aircraft and scheduled commercial aircraft. The NDAC study estimates that, on an annual basis, approximately \$64 million in local and state tax revenues are generated by the 89 study airports and the activities they support.



There are other non-airport-specific aviation and aerospace activities in North Dakota that make direct contributions to the state's economy. A listing of these additional activities is provided below, and more information on each these additional economic contributors is provided in the study's technical report:

- Activities associated with the mission of the 319th Air Wing Base in Grand Forks.
- Jobs, payroll, and output associated with the operation and mission of Minot Air Force Base.
- Aviation and aerospace companies, including aerial applicators, doing business in North Dakota, but not located at a study airport.
- North Dakota companies with employees whose jobs have improved efficiency from using commercial and general aviation and air cargo services.

The statewide total annual economic impacts of these activities, as identified or estimated in this NDAC study, are shown in the table below. It is important to re-state that these benefits are in addition to those estimated for the 89 study airports.

Economic Impacts from Airports, Aviation,

and Aerospace in North Dakota

	TOTAL EMPLOYMENT	TOTAL PAYROLL	TOTAL OUTPUT
Grand Forks AFB	2,565	\$105.2 million	\$203.7 million
Minot AFB	7,283	\$321 million	\$513.5 million
Off-Airport Aviation / Aerospace Businesses	4,635	\$232.7 million	\$512.6 million
Aviation Supported Jobs	5,513	\$271.8 million	\$882.7 million
Sub-Total	19,996	\$930.7 million	\$2.1 billion
Total for 89 Study Airports	12,217	\$505.2 million	\$1.56 billion
Total for All Airport / Aviation / Aerospace Impacts	s 32,213	\$1.44 billion	\$3.66 billion

North Dakota Jobs Supported by or Benefiting from Aviation, Airports, or Aerospace



Aviation-Related Jobs in North Dakota: 32,213

The statewide economic impact study estimated economic impacts for 89 public airports, Grand Forks and Minot AFBs, off-airport aviation/ aerospace businesses in the state, and other businesses in the state with employees who gain efficiency by using aviation. When combined, all sources support approximately 32,200 direct and indirect jobs in North Dakota. These jobs account for almost 8% of North Dakota's total employment which was estimated at 413,000 in 2014.

As this report clearly shows, aviation, aerospace, and North Dakota's system of public-use airports are essential underpinnings to the present and future success of North Dakota's economy.

When combined, all aviation- and aerospace-related contributors discussed in this study (airports, the military, aviation/aerospace companies, and aviation-reliant businesses) provide annual economic benefits to North Dakota that approach \$3.7 billion. The 2014 Real Gross State Product of North Dakota is estimated at \$48.2 billion. All airport, aviation, and aerospace activities in North Dakota account for 7.6% of the state's total annual economic activity.



North Dakota Aeronautics Commission P.O. Box 5020 Bismarck, ND 58502

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http://www.aero.nd.gov

Input for this study was obtained from: airlines. passengers, North Dakota businesses, airport representatives, the North Dakota Aeronautics Commission (NDAC), the Federal Aviation Administration (FAA), and other private and government sources. Analysis completed in the study was based on data collected in 2014 and 2015, with the final report released November 2015. Preparation of this report was financed in part through a planning grant from the FAA as approved under the Airport and Airway Improvement Act of 1982. The contents of this report reflect the views of the Consultant, which is responsible for the facts and the accuracy of the data depicted herein, and do not necessarily reflect the official views or policy of the FAA. Acceptance of this report by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein, nor does it indicate that the proposed development is environmentally acceptable in accordance with applicable public laws.

NOITAIVL

Increasing Economic Impacts for North Dakota Airports

One objective the NDAC had for the 2015 update to their Statewide Aviation Economic Impact Study was to determine how economic contributions from the 89 public-use airports have changed since it was measured in 2010. The graphic below provides a comparison of findings from the 2010 and 2015 studies. The comparison shows direct, indirect, and total statewide economic impacts for employment, payroll, and output. The 2015 study took a conservative approach to estimate indirect impacts; as a result, 2015 indirect impacts represent a smaller percentage of total impacts than they did in the 2010 study.

As shown, direct statewide economic impacts for the 89 public-use airports increased between 2010 and 2015 for employment, payroll, and output. Increases in direct impacts contributed to the overall increase for total impacts for all three categories as shown here.





Airport Association of North Dakota

5B 2006/5B2066

Matthew Remynse - President Anthony Dudas - Vice President
Samuel Seafeldt - Sec. / Treasurer
PO Box 1560 Jamestown, North Dakota 58402-1560

0 Jamestown, North Dakota 58402-1560 (701) 355-1808

January 13, 2017

RE: Testimony to Senate Appropriations Committee on SB 2006 (Aeronautics Budget)

Chairman Holmberg and members of the committee,

I am Matthew Remynse, the President of the Airport Association of North Dakota (AAND). I want to thank you for the opportunity to speak here today and thank you for the past support of airports. I'm here today to speak in support of SB 2006 and would respectfully request the Committee consider an additional one-time appropriation of \$9 million in grants for the North Dakota Aeronautics Commission (NDAC). AAND is the professional organization for North Dakota Airports and it serves to promote airports, aviation, and safety across North Dakota. Among its members are all eight commercial service airports, 70 of 81 general aviation airports and aviation engineering and planning firms.

Airports are a valuable asset for North Dakota's economy. North Dakota's 89 airports generate an economic impact of \$1.56 billion annually. This is an impressive 47% increase from 2010 when airports generated \$1.06 billion annually. Airports play a vital role in the state and touch all major industries, including agriculture, manufacturing, healthcare, tourism, energy, and technology. A great example I like to share is that many rural communities receive the same type of healthcare that is in the major cities because doctors fly to the rural communities. Driving is not economically feasible for the doctors, but flying is because of the time savings. This eases the burden for rural North Dakota to get great health care in their communities, and it's because of aviation and airports.

North Dakota's airports grew at an unprecedented rate in the first part of this decade surpassing many of the forecasted estimates. Unfortunately, airports were affected by the economic downturn just as many North Dakota industries were, but I see this as a positive. Airports have leveled off to an extent, and are now growing at a rate more manageable than the rate seen during the boom years. Although airports are growing at a gentler rate, the needs are still there and higher than ever because the activity never returned to pre boom levels. Many of the western ND airports are still not built for the traffic that the boom brought, and that traffic continues. Regional jets at the Dickinson and Williston airports are a great example.

Currently the North Dakota Aeronautic Commission's ability to meet the needs of airports is underfunded. Without additional funding airport infrastructure projects will be delayed. Delaying vital projects will hinder a vital driver of the state's economic development, and quality of life. Additional funding is needed not only to support anticipated growth but also to repair facilities that deteriorated at a much faster rate than expected due to the economic surge.

The Aeronautics Commission works hand in hand with the Federal Aviation

Administration (FAA), and airports regarding grant funding. Federal funding normally covers

90% of eligible projects, but with such a high demand of large projects in the state the FAA is

not always able to fulfill those requirements. With the lack of both state and federal funding,

airports are making the difficult decision of going into debt to complete their projects. Additional

state funding for airport grants would assure that crucial projects are being completed on time

and would reduce the amount of debt airports would have to take on. Also, when additional state

funding is appropriated it typically generates more federal dollars.

In the upcoming biennium there are several airports with large projects that would benefit greatly if additional funding was approved. Bismarck Airport has a main runway reconstruction project that will total \$70 million when complete. The City of Bismarck is funding \$30 million of this project because of the lack of Federal funding. Williston's new airport broke ground last fall and is scheduled to be completed in 2018. Dickinson Airport is starting to develop their

2

runway project, as is the Grand Forks Airport. Several general aviation airports are preparing large projects too. Northwood, Ashely, Hillsboro, and Watford City will have major runway projects this biennium. In addition to these major projects, airports must maintain their capital investments, and there are several projects that are not included on the capital improvement plan because they are ineligible for grant funding and must be funded solely by the airport.

I want to point out that AAND and airports are also working to create other funding resources for airports this session to allow for more flexibility when developing budgets for capital projects. AAND is working with Legislators to insert new language into the Century Code that would allow the eight commercial service airports to utilize the Bank of North Dakota Infrastructure Loan Program. AAND is working with another Legislator to create language that would allow airports and airport authorities to be eligible to receive mills from a city or county's capital projects levy.

I have focused mainly on the NDAC's grant funding program and how that is vital to airports but I would also like to highlight the other services the NDAC provides to support airports and the aviation community. The NDAC has a fantastic education program that is drawing young adults into aviation. The NDAC helps general aviation airports with developing their capital improvement plans and conducting safety inspections. The studies that the NDAC completes are an extremely useful tools for airports. A Pavement Condition Index Study is a federal requirement for each airport to receive federal funding. The NDAC puts this study together for all airports. This a is large undertaking and Kyle and his staff do an amazing job managing that study and assuring that there is a useful end product for airports. Overall, the NDAC provide an enormous amount of support to airports and aviation and that should not be overlooked when considering their budget.

In, conclusion, AAND fully understands that the priority of the Legislature and Governor is to reduce spending and that there will be several industries vying for the funding available. I

ask that you please do not look at airport infrastructure as spending but rather a sound investment in a vital driver of the State's economy. As you work through the State's budget AAND would greatly appreciate your consideration for an additional one-time funding of \$9 million for airport grants. Thank you for allowing me the opportunity to testify on SB 2006 and want to thank you for your service to the State. I will take any questions at this time.

Respectfully,

Matthew Remynse President, AAND

5B 2006/2066 1-13-17 # 9

Testimony of Gregory B. Haug Airport Director, Bismarck Airport Senate Bill 2006, Senate Appropriations Committee 65th North Dakota Legislative Assembly January 13, 2017

Chairman Holmberg and Members of the committee,

My Name is Greg Haug and I am the director of the Bismarck Airport and I will be providing testimony regarding Senate Bill 2006 on behalf of the Bismarck Airport and the City of Bismarck.

First I would like to say a few words about the Bismarck Airport and provide the committee a brief update on some recent activities and milestones.

Bismarck works hard to make improvements to the air service offered and our newest and 5th airline to enter the market was American Airlines in October of 2014. American provides daily service to Dallas/Fort Worth and Chicago and has done well in their first two years of service. We have also been fortunate to retain Frontier Airlines and are

now the only location in ND that Frontier still provides their ultra-low cost service to.

Bismarck Airports passenger traffic has set a new record every year for the last eight (8) years, including 2016. Yes, even with the downturn in the oil activity the Bismarck Airport is still booming with passenger traffic! No doubt the oil activity out west impacted the Bismarck Airport over the last several years but Bismarck's economy is continuing to do well which continues to add more passenger demand at the airport.

The Airport has had to make some incremental improvements over the last several years in order to accommodate the needs of our passengers and the increase in demand. A few of these improvements include parking lot expansions, an additional passenger boarding bridge, a car rental wash facility and expansion of the security checkpoint, not only once, but twice, and we now have three (3) x-ray lanes to speed up passenger throughput. These have all been good projects, they have helped us keep pace with the passenger demand and they have been financially doable. But now we have an 800 Lb. gorilla on our back, it's called the runway 13/31 reconstruction project. This is by far the most expensive and complex project I have been involved with in my 30 year career in airport management. When it's done we will get a nice smooth strip of concrete nearly two (2) miles long that people forget about. It's not as sexy as building a shiny new terminal that people can admire. It's just expected that every airport will have a safe runway for aircraft to use. In Bismarck's case, it just happens to be the primary runway, the longest, widest and strongest one and the most expensive one.

Here's a quick update on Bismarck's main runway reconstruction project:

2

- Our runway pavement dates back to the 1950's, 60's, & 70's.
- The pavement is rapidly deteriorating according to the state sponsored pavement condition study.
- We have spent the last 3 years preparing for the start of this project.
- o Our engineer's current estimated construction costs are 70 million dollars.
- Construction is planned over the next 3 years.
- We have awarded \$24 million dollars in bids for phase one.
- Construction starts in May 2017.

On the funding side FAA has the ability to fund up to 90% of the cost but has only committed 53% or 37 million. That leaves 33 million to the state and local levels. The NDAC generally funds up to 5% of regular airport projects so that would leave approximately 30 million to the City & Airport.

The airport plans to use all its cash reserves plus issue a 10 to 15-million-dollar bond and then lean on the City of Bismarck's cash reserves for the remainder.

We have no choice the work must be done!

On behalf of the City of Bismarck and the Bismarck Airport, we support Senate Bill 2006 and the Aeronautics Commission and all their programs.

On behalf of the City of Bismarck, the Bismarck Airport, and the hundreds of thousands of North Dakota Passengers, Business folks, & Visitors that use the Airport annually, we also request that this committee review the Aeronautics Commission's original Budget Request and reconsider the 9 million dollars of the one-time funding that was originally requested by the Aeronautics Commission. If allocated by the legislature, a portion of

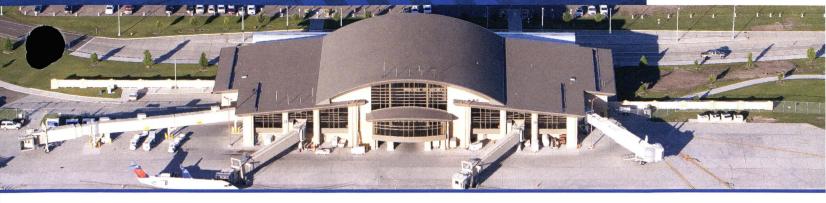
those funds could be used by the Aeronautics Commission to help Bismarck fund this enormous and very important project at the capital city airport.

Thank you for allowing me to address the committee, I would be happy to answer any questions.

BISMARCK AIRPORT (BIS)

BISMARCK, ND

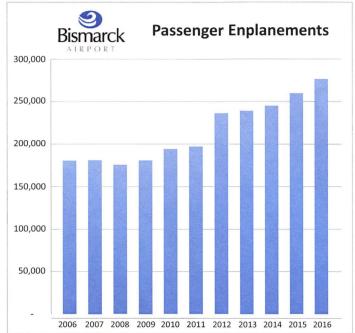




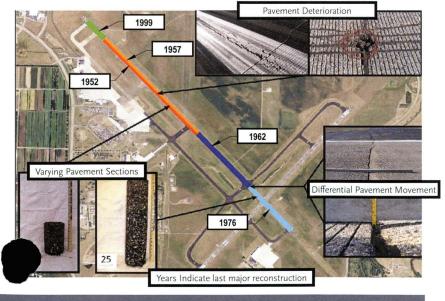
BISMARCK AIRPORT (BIS)

The Bismarck Airport plays a vital economic role for the City of Bismarck and the surrounding region. The 2015 Economic Impact Study for North Dakota Airports, conducted by the North Dakota Aeronautics Commission, indicates the Bismarck Airport brings 110,342 visitors to North Dakota annually, which contributes an estimated \$68,838,160 each year to the city of Bismarck and surrounding region on items such as food, local ground transportation, hotels, shopping and entertainment. In addition to contributing to local economy, the Bismarck Airport supports 2,216 jobs and contributes more than \$10 million in annual state and local tax revenues.

The economic impact of the Bismarck Airport continues to grow s existing airlines have expanded service and new airlines have een added in recent years. Expansions include new service from Frontier Airlines in May 2012 and Allegiant adding a new route to Orlando, FL in November 2013. American Airlines became the newest airline to serve the Bismarck area when they began offering service to Dallas/Fort Worth and Chicago in October 2014. The Bismarck Airport recorded a 4.4 percent increase in enplanements in 2016.



The Bismarck Airport has experienced steady growth in enplanements over the last 8 years. Despite oil market volatility, Bismarck Airport experienced 4.4 percent growth in enplanements in 2016.



Key Issues:

- · Portions of the runway are more than 60 years old
- · Varying pavement sections
- · Differential pavement movements
- Declining pavement condition index ratings (2016 NDAC PCI Study)

AIRPORT NEEDS

Due to the age and increased utilization, primary Runway 13-31 pavement has been deteriorating at an increased rate over the past several years. Runway 13-31 pavement is showing significant distress and in many areas the pavement is popping out causing foreign object debris (FOD) and maintenance issues. Runway 13-31 does not meet current design standards and preliminary work shows the runway profile elevation needs to be raised by more than four feet in areas to meet Federal Aviation Administration (FAA) standards. The existing runway areas drain poorly and are highly susceptible to frost heaves. Airfield drainage improvements are necessary to improve both surface flow and eliminate subsurface moisture under the pavement. Bismarck Airport's primary runway was constructed and reconstructed over a number of years ranging from 1952 to 1999. Sections of the existing runway have been in existence for more than 64 years with the support of rehabilitation projects. The map to the left highlights key issues.

BISMARCK AIRPORT (BIS)

BISMARCK, ND



FUNDING NEEDS

To sustain air carrier operations, it is necessary to reconstruct Runway 13-31 at an estimated cost of \$70 million. Due to the significant cost to complete the project, financial assistance from the FAA and state of North Dakota is critical to complete improvements.



- * Estimated federal participation
- ** Local participation contingent on state participation

ESTIMATED RECONSTRUCTION PROJECT TIMELINE



FORTHCOMING AIRPORT NEEDS

In addition to reconstruction of the primary runway, the Bismarck Airport has two additional critical projects to complete immediately after the primary runway reconstruction project. The projects include rehabilitating Runway 3-21 and removing known wildlife attractants at the airport. Total costs are estimated to be in excess of \$41 million.



SB 2006/2066 13 January 2017

#10

Subject: SB 2006 13 January 2017

To: Appropriation Committee Members

From: Rodney Schaaf, Bowman Regional Airport Board Chairman

Subject: Proposed North Dakota Aeronautics Commission Budget

Representation: North Dakota General Aviation airports

You will hear a lot about the "Willistons, Bismarcks, Dickinsons, Minots" concerning their airport projects. Rightfully so, but I am here today to represent the small general aviation airports, (the little guys), and to show our support for the Aeronautics Commission's proposed budget.

- 1- Bowman Regional is 1 of 81 small airports in North Dakota. Our new airport opened in May, 2015. It was a 10 year project from scratch to dedication. The last totally new constructed airport was in 1985 at West Fargo.
- 2- Primary services provided include MediVac ops, visiting Doctors to satellite clinics, Eye in the Sky for rural firefighter ops, Game and Fish Department aerial surveys, Weather Modification ops, oil and gas company ops, predator control, and weather radar ops. Similar services, as with other small airports, include fuel and maintenance, flight instruction, seasonal bird and big game hunting ops, crop spraying, corporate, transient and local flight operations.
- 3- In the "perfect world" of airport construction projects, upgrades, and funding resources, the FAA cost shares 90%- the State 5%- and local 5%.

- 4- The Bowman Regional Airport project costs= see attached Costs page 17.7 m total, FAA 68%- 12 m, State 18%- 3.1 m, Local 14%- 2.5m
- 5- In conclusion, our project, along with other small airports, could NOT be completed without the State Aeronautics Commissions assistance (above and beyond). We urge you to consider and support the Aeronautics Commission proposed budget and if additional funds may be available, please consider the aviation project needs for the 89 North Dakota airports

THANK YOU

Costs - New Airport 8-15-16							
2012/2013 Improvements Grading & dirt work)	<u>Total</u> \$ 4,443,794.00	Federal \$ 3,998,627.00	<u>State</u> \$ 221,839.00	<u>Local</u> \$ 223,327.00			
2013/2014 Improvements (Surfacing & Electrical)	\$ 8,904,289.00	\$ 5,749,226.00	\$2,589,523.00	\$ 565,540.00			
2014/2015 Improvements (Terminal/SRE & Fencing)	\$ 2,777,036.00	\$ 2,294,368.00	\$ 124,709.00	\$ 357,959.00			
2014/2015 Improvements (Fueling Facility)	\$ 425,144.00	\$ -	\$ 212,141.00	\$ 213,003.00			
2014/2015 Improvements (T-Hangars)	\$ 755,033.00	\$ -	\$ -	\$ 755,033.00			
2015 Improvements	\$ 437,299.00	\$ -	\$ -	\$ 437,299.00			
Totals	\$17,742,595.00	\$12,042,221.00 = 687 ₀	\$3,148,212.00(\$2,5\$2,161.00			



Aeronautics Commission - Budget No. 412 Senate Bill No. 2006 Base Level Funding Changes

Other Sections in Aeronautics Commission - Budget No. 412

5B 2006 2-7-17

_acc _cross assumed committee	Burgu	ım Executive B	udget Recomm	endation								
	(Ch	anges to Dalry	mple Budget in	Bold)	Senate Version			Senate Changes to Revised Executive Budget				
											se) - Executive Bu	dget
	FTE	General			FTE	General			FTE	General		
	Position	Fund	Other Funds	Total	Position	Fund	Other Funds	Total	Positions	Fund	Other Funds	Total
2017-19 Biennium Base Level	7.00	\$934,500	\$10,308,017	\$11,242,517	7.00	\$934,500	\$10,308,017	\$11,242,517	0.00	\$0	\$0	\$0
2017-19 Ongoing Funding Changes												
Base payroll changes			(\$34,998)	(\$34,998)				\$0			\$34,998	\$34,998
Salary increase				0				0				0
Health insurance increase			20,035	20,035			20,035	20,035				0
Employee portion of health insurance			(10,495)	(10,495)				0			10,495	10,495
Increases funding for operating expenses			143,810	143,810				0			(143,810)	(143,810)
Reduces airport grants - general fund		(34,500)		(34,500)				0		34,500		34,500
Reduces capital asset funding			(200,000)	(200,000)				0			200,000	200,000
Reduces education grants			(100,000)	(100,000)				0			100,000	100,000
Removes planning grants			(1,100,000)	(1,100,000)				0			1,100,000	1,100,000
Increases airport grants			800,000	800,000				0			(800,000)	(800,000)
Total ongoing funding changes	0.00	(\$34,500)	(\$481,648)	(\$516,148)	0.00	\$0	\$20,035	\$20,035	0.00	\$34,500	\$501,683	\$536,183
One-time funding items												
No one-time funding items				\$0				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	(\$34,500)	(\$481,648)	(\$516,148)	0.00	\$0	\$20,035	\$20,035	0.00	\$34,500	\$501,683	\$536,183
2017-19 Total Funding	7.00	\$900,000	\$9,826,369	\$10,726,369	7.00	\$934,500	\$10,328,052	\$11,262,552	0.00	\$34,500	\$501,683	\$536,183
2017 To Total Fullating	7.00	ψ500,000	ψ0,020,000	Ψ10,720,000	1 7.00	Ψ00-1,000	\$10,020,002	Ψ11,202,002	0.50	3.8%	5.1%	5.0%
										3.070	5.170	3.076

No other sections included in the executive budget recommendation.

Burgum Executive Budget Recommendation (Changes to Dalrymple Budget in Bold)

No other sections included in the Senate version.

Senate Version

1

February 8, 2017

PROPOSED AMENDMENTS TO SENATE BILL NO. 2006

Page 1, replace lines 12 through 19 with:

"Salaries and wages	\$1,447,637	(\$14,963)	\$1,432,674
Operating expenses	2,060,380	143,810	2,204,190
Capital assets	300,000	(200,000)	100,000
Grants	7,434,500	(434,500)	7,000,000
Total all funds	\$11,242,517	(\$505,653)	\$10,736,864
Less estimated income	<u>10,308,017</u>	(471,153)	9,836,864
Total general fund	\$934,500	(\$34,500)	\$900,000
Full-time equivalent positions	7.00	0.00	7.00"

Renumber accordingly

STATEMENT OF PURPOSE OF AMENDMENT:

Senate Bill No. 2006 - Aeronautics Commission - Senate Action

	Base Budget	Senate Changes	Senate Version
Salaries and wages	\$1,447,637	(\$14,963)	\$1,432,674
Operating expenses Capital assets	2,060,380 300,000	143,810 (200,000)	2,204,190 100,000
Grants	7,434,500	(434,500)	7,000,000
Total all funds	\$11,242,517	(\$505,653)	\$10,736,864
Less estimated income	10,308,017	(471,153)	9,836,864
General fund	\$934,500	(\$34,500)	\$900,000
FTE	7.00	0.00	7.00

Department No. 412 - Aeronautics Commission - Detail of Senate Changes

	Adjusts Funding for Base Payroll Changes ¹	Adds Funding for Health Insurance Increase ²	Adjusts Base Level Funding ³	Total Senate Changes
Salaries and wages Operating expenses Capital assets Grants	(\$34,998)	\$20,035	143,810 (200,000) (434,500)	(\$14,963) 143,810 (200,000) (434,500)
Total all funds Less estimated income	(\$34,998) (34,998)	\$20,035 20,035	(\$490,690) (456,190)	(\$505,653) (471,153)
General fund	\$0	\$0	(\$34,500)	(\$34,500)
FTE	0.00	0.00	0.00	0.00

¹ Funding is adjusted for cost-to-continue 2015-17 biennium salaries and benefit increases and for other base payroll changes.

² Funding is added for increases in health insurance premiums from \$1,130 to \$1,249 per month.

³ Base level funding is adjusted as follows:

	General Fund	Other Funds	Total
Adds funding for operating expenses		\$143,810	\$143,810
Adjusts funding for airport grants	(34,500)	800,000	765,500
Reduces capital asset funding		(200,000)	(200,000)
Reduces education grants		(100,000)	(100,000)
Removes planning grants		(1,100,000)	(1,100,000)
Total	(\$34,500)	(\$456,190)	(\$490,690)

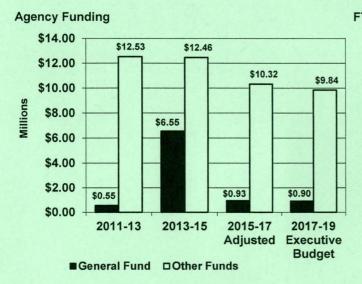
Department 412 - Aeronautics Commission Senate Bill No. 2006

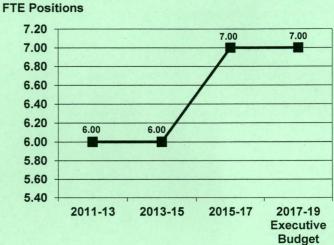
Dalrymple Executive Budget Comparison to Prior Biennium Appropriations

	FTE Positions	General Fund	Other Funds	Total		
2017-19 Dalrymple Executive Budget	7.00	\$900,000	\$9,842,642	\$10,742,642		
2015-17 Adjusted Legislative Appropriations ¹	7.00	934,500	10,322,827	11,257,327		
Increase (Decrease)	0.00	(\$34,500)	(\$480,185)	(\$514,685)		
¹ The 2015-17 biennium agency appropriation amounts reflect general fund budget reductions made in August 2016.						

Ongoing and One-Time General Fund Appropriations

	Ongoing General Fund Appropriation	One-Time General Fund Appropriation	Total General Fund Appropriation
2017-19 Dalrymple Executive Budget	\$900,000	\$0	\$900,000
2015-17 Adjusted Legislative Appropriations	934,500	0	934,500
Increase (Decrease)	(\$34,500)	\$0	(\$34,500)





Dalrymple Executive Budget Comparison to Base Level

	General Fund	Other Funds	Total
2017-19 Executive Budget	\$900,000	\$9,842,642	\$10,742,642
2017-19 Base Level	934,500	10,308,017	11,242,517
Increase (Decrease)	(\$34,500)	(\$465,375)	(\$499,875)

First House Action

Attached is a comparison worksheet detailing first house changes to base level funding and the executive budget.

Dalrymple and Burgum Executive Budget Highlights (With First House Changes in Bold)

	General Fund	Other Funds	lotal
1. Adds funding for state employee salary and benefit increases, of which \$5,778 is for salary increases and \$20,035 is for health	\$0	\$25,813	\$25,813
insurance increases. (The Burgum budget removed funding for salary increases and provided for employees to pay for a portion of health insurance.) The Senate removed funding for the salary increases.			
2. Increases funding for operating expenses to provide a total of \$2,204,190	\$0	\$143,810	\$143,810
3. Reduces ongoing general fund support for airport grants to provide a total of \$900,000	(\$34,500)		(\$34,500)

 Increases funding from other funds for airport grants to provide a total of \$5,800,000 in airport infrastructure grants 	\$0	\$800,000	\$800,000
5. Reduces funding for capital assets to provide a total of \$100,000	\$0	(\$200,000)	(\$200,000)
6. Reduces funding for education grants to provide a total of \$300,000	\$0	(\$100,000)	(\$100,000)
7. Removes funding for planning grants	\$0	(\$1,100,000)	(\$1,100,000)

Continuing Appropriations

No continuing appropriations for this agency.

Significant Audit Findings

The operational audit of the Aeronautics Commission conducted by the State Auditor's office for the biennium ended June 30, 2015, included significant audit findings related to the following:

- The commission has not properly segregated duties and has not adequately reviewed the potential risk of fraud surrounding the handling of revenue collections.
- · The commission does not have adequate controls surrounding disposal of fixed assets.

Major Related Legislation

House Bill No. 1217 - Amends North Dakota Century Code Section 2-05-11 relating to aircraft registration. This bill removes the reduction in aircraft registration fees for aircraft 1 year old or older and increases the permanent registration fee from \$85 to \$125.

Senate Bill No. 2049 - Amends Section 2-05-22 relating to interest received by the Aeronautics Commission special fund to identify how the fund is to be used. Amends Chapters 57-40.5 and 57-43.3 relating to aircraft excise tax and aviation fuel tax. Repeals Sections 57-43.3-04 and 57-43.3-06 relating to the aviation fuel tax, to be effective for taxable purchases made after June 30, 2017.

Senate Bill No. 2200 - Amends Sections 57-15-06.6 and 57-15-38 relating to capital project levies. This bill authorizes counties and cities to levy taxes for the purpose of financing projects for county and city airports or airport authorities.

Aeronautics Commission - Budget No. 412 Senate Bill No. 2006 Base Level Funding Changes

Duos 201011 unumg changes	Burgum Executive Budget Recommendation (Changes to Dalrymple Budget in Bold)				Senate Version			
	FTE Position	General Fund	Other Funds	Total	FTE Position	General Fund	Other Funds	Total
2017-19 Biennium Base Level	7.00	\$934,500	\$10,308,017	\$11,242,517	7.00	\$934,500	\$10,308,017	\$11,242,517
2017-19 Ongoing Funding Changes								
Base payroll changes			(\$34,998)	(\$34,998)			(\$34,998)	(\$34,998)
Salary increase				0				0
Health insurance increase			20,035	20,035			20,035	20,035
Employee portion of health insurance			(10,495)	(10,495)				0
Increases funding for operating expenses			143,810	143,810			143,810	143,810
Reduces airport grants - general fund		(34,500)		(34,500)		(34,500)		(34,500)
Reduces capital asset funding			(200,000)	(200,000)			(200,000)	(200,000)
Reduces education grants			(100,000)	(100,000)			(100,000)	(100,000)
Removes planning grants			(1,100,000)	(1,100,000)			(1,100,000)	(1,100,000)
Increases airport grants		(004 500)	800,000	800,000		(004 500)	800,000	800,000
Total ongoing funding changes	0.00	(\$34,500)	(\$481,648)	(\$516,148)	0.00	(\$34,500)	(\$471,153)	(\$505,653)
One-time funding items								
No one-time funding items				\$0				\$0
Total one-time funding changes	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0
Total Changes to Base Level Funding	0.00	(\$34,500)	(\$481,648)	(\$516,148)	0.00	(\$34,500)	(\$471,153)	(\$505,653)
2017-19 Total Funding	7.00	\$900,000	\$9,826,369	\$10,726,369	7.00	\$900,000	\$9,836,864	\$10,736,864

Other Sections in Aeronautics Commission - Budget No. 412

Burgum Executive Budget Recommendation (Changes to Dalrymple Budget in Bold)

No other sections included in the executive budget recommendation.

Senate Version

No other sections included in the Senate version.

Department 412 - Aeronautics Commission

Appropriations Comparisons to the Original and Adjusted Base Budgets

General Fund Appropriations Adjustments
(As a result of the August 2016 General Fund Budget Reductions)

	Ongoing	One-Time	Total
2015-17 original general fund appropriations	\$1,000,000	\$0	\$1,000,000
General fund reductions	(65,500)		(65,500)
Adjusted 2015-17 appropriations	\$934,500	\$0	\$934,500
Dalrymple Executive Budget changes	(34,500)	0	(34,500)
2017-19 Dalrymple Executive Budget	\$900,000	\$0	\$900,000

Summary of August 2016 General Fund Budget Reductions

	Ongoing	One-Time	Total
Reduced funding for airport grants	(\$65,500)	\$0	(\$65,500)
Total reductions	(\$65,500)	\$0	(\$65,500)
Percentage reduction to ongoing and one-time general fund appropriations	6.55%	0.00%	6.55%

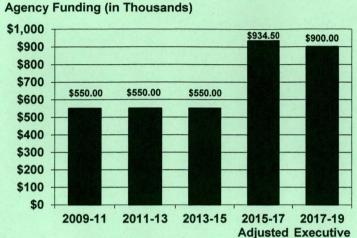
2017-19 Dalrymple Executive Budget Changes to the Original and Adjusted Base Budgets

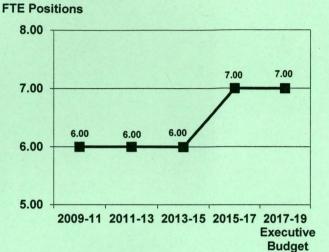
2017 To Dum Jimpio Excountre Duaget em	Changes to Original Budget	Budget Reduction Adjustments	Changes to Adjusted Budget
Reduces funding for airport grants	(\$100,000)	\$65,500	(\$34,500)
Total	(\$100,000)	\$65,500	(\$34,500)

Department 412 - Aeronautics Commission

Historical Appropriations Information

Total Other Funds Appropriations Since 2009-11





■Ongoing General Fund Appropriations

Ongoi	ng General Fu	nd Appropriati	ons		
	2009-11	2011-13	2013-15	2015-17 Adjusted	2017-19 Dalrymple Executive Budget
Ongoing general fund appropriations	\$550,000	\$550,000	\$550,000	\$934,500	\$900,000
Increase (decrease) from previous biennium	N/A	\$0	\$0	\$384,500	(\$34,500)
Percentage increase (decrease) from previous biennium	N/A	0%	0%	69.9%	(3.7%)
Cumulative percentage increase (decrease) from 2009-11 biennium	N/A	0%	0%	69.9%	63.6%

Budget

Major Increases (Decreases) in Ongoing General Fund Appropriations

2011-13 Biennium

1. No major increases or decreases

2013-15 Biennium

1. No major increases or decreases

2015-17 Biennium

1. Increased funding for airport grants to provide \$1,000,000

\$384,500

2017-19 Biennium (Dalrymple and Burgum Executive Budget Recommendations)

1. Reduces funding for airport grants to provide \$900,000

(\$34,500)

ND Aeronautics Commission

March 3, 2017 SB2006 actachment A



NORTH DAKOTA AERONAUTICS COMMISSION

Kyle C. Wanner

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"A Statewide Voice for Aviation"

TESTIMONY OF

KYLE C. WANNER

EXECUTIVE DIRECTOR, NORTH DAKOTA AERONAUTICS COMMISSION

BEFORE THE

HOUSE APPROPRIATIONS – GOVERNMENT OPERATIONS DIVISION, COMMITTEEE

March 3rd, 2017

SENATE BILL 2006

Chairman Brandenburg and members of the committee,

My name is Kyle Wanner and I am the Director of the North Dakota Aeronautics Commission and will be providing testimony today regarding Senate Bill 2006.

(Slide 2) The Aeronautics Commission agency was created by the Legislature in 1947 to support the aviation community in North Dakota. The agency's mission is "to serve the public by providing economic and technical assistance for the aviation community while ensuring the cost effective advancement of aviation in North Dakota."

The agency is overseen by a Governor appointed board of 5 members who appoint a director who in turn; hires and supervises the staff required to operate the agency.

(Slide 3) To introduce our commissioners: Cindy Schreiber-Beck of Wahpeton is currently the commission chairperson. Jay B. Lindquist of Hettinger, Maurice Cook of Bismarck, Kim Kenville of Grand Forks, and Warren Pietsch of Minot cumulatively comprise the full commission board. The board is geographically represented well and each commission member brings a different set of aviation expertise for the agency's utilization.

The Aeronautics Commission is also currently allowed up to 7 full time equivalent staff members which is seen as adequate for the upcoming biennium.

(Slide 4) The North Dakota Aeronautics Commission serves multiple functions. One of those functions includes providing airport infrastructure grant funding to the 89 public service airports throughout the state. The commission also offers aviation education funding and works with the Aviation Museums to encourage and promote aviation in North Dakota. The aeronautics staff visits at least 1/3 of all of the public airports in the state annually which is a great opportunity to develop a positive relationship with the airports, learn about their needs and priorities, and make recommendations on safety enhancing projects. The staff also updates the airport information after each inspection so that pilots have the



most up to date information to use as they utilize the North Dakota airport system. Additionally, the commission updates and provides aviation publications on statewide aviation studies, airport directories, and aeronautical charts.

The commission also has regulatory functions which includes the collection of aviation taxes and fees through aircraft registrations, aerial applicator registrations, aircraft dealers, aircraft excise tax, and aviation fuel taxes

Additionally, the commission and its staff represent the state in aeronautical matters before other state and federal agencies.

(Slide 5) Aviation is important to North Dakota and serves a variety of critical functions from emergency transportation to aerial crop spraying. Our airports become especially important during a time when our state is looking for ways to diversify and grow the economy. Not only is aviation a safe and efficient way to transport goods and people, but our airports act as key economic engines for their communities as documented by a recent statewide economic impact study that I will discuss with you later in this presentation.

(Slide 6) Last year, the Aeronautics Commission unveiled a new and improved website that has become a one-stop shop for aviation needs and information within North Dakota. The new website has information on the agency's programs, allows for online credit card payments of aircraft registrations, provides information from statewide aviation studies, and gives valuable information for our airport managers. The website also provides a go-to place for finding updated information regarding the unmanned aircraft industry. Since launching the new website, we have seen an incredible increase in the amount of traffic that has visited the site and we hope that continues as we work to make information easily accessible to the public.

(Slide 7) Our commercial service airports provide incredible value to our state and the graphic on this slide shows all of the routes and destinations that are currently available to the general public. Nine different direct flight destinations are available to connect North Dakota to the rest of the world. All eight commercial service airports continue to boast jet service and the state is also currently averaging approximately 70 airline flight departures per day with an estimated 4,100 available daily seats.

(Slide 8) This slide highlights the amount of airline passengers that are boarding commercial service flights in North Dakota and tells a very interesting story. Back in 2008, the state boarded 683,000 airline passengers and as shown by the yellow line - it was forecasted at that time that we would reach 1 million annual airline passenger enplanements sometime around the year 2030. In all actuality we surpassed the 1 million mark only 5 years later in 2012 and that growth continued until the state grow to over 1.2 million passengers in 2014. This resulted in a 76% growth in passenger numbers over a 6 year time period.

In 2014, and prior to the collapse in both oil and agricultural prices occurring, our state system plan forecasters had presented us with an updated forecast in the green line as shown on the slide. Now after the price collapse, here in 2017 and as shown by the red line - we expect a leveling off of passenger numbers and steady growth to pick up once again after those industries begin their recovery. This new forecast does not consider a large spike in commodity prices, but a gradual recovery.

As you can see in the graphic - the actual passenger numbers are currently not at the peak that we saw in 2014, but are still being maintained at much higher levels than what was expected prior to the oil boom taking place in the state. In fact, the 2016 passenger numbers are still over 50% higher than they were in 2008. This story helps to give a good perspective of the current condition and outlook of the state's air service.

(Slide 9) To provide some highlights from this past biennium I will start by discussing some key Infrastructure projects have been completed at our 8 commercial service airports.

- Fargo received the funding required to complete the first and second phase of its major taxiway rehabilitation project. The final phase of this project is planned to take place in 2017 at an estimated \$7 million dollars.
- Grand Forks recently began work on redeveloping a general aviation area on the east side of the airport and is also currently working through a master plan update. The airport is planning some major runway lighting improvements in the upcoming biennium.
- Devils Lake recently completed a runway safety area improvement project and is beginning the design work to rehabilitation the crosswind runway in the upcoming biennium.
- Jamestown completed a key wetland mitigation project to improve safety at the airport and is also working toward the rehabilitation of its crosswind runway.

(Slide 10)

- Minot completed the multi-year construction of its new terminal building that opened in February 2016. The airport is also working to complete a master plan process and is working towards major storm water improvements and an expansion to its aircraft rescue and firefighting building.
- Bismarck recently opened bids for Phase 1 of its Runway Reconstruction project. This
 project is the beginning of a multiple-year estimated \$70 million dollar project to
 replace 60 year old pavements on the main runway. The final phases are planned to be
 bid and constructed in the upcoming biennium.
- Dickinson improved their runway safety area and finalized work on their master plan
 and environmental study to move forward with land acquisition and construction of a
 new parallel taxiway and main runway. These major projects are expected to begin
 within the upcoming biennium and finish in the 2019-2021 biennium. Project costs for
 this critical project are approximately \$60 million.

Ground breaking on the new Williston airport project took place this last fall and land acquisition has been completed. The airport has received approximately \$54 million dollars to date from the Federal Aviation Administration and is moving forward in the upcoming biennium with the major construction elements. The targeted opening for the new airport is currently fall of 2019.

(Slide 11) Multiple high priority projects were also able to become completed for the general aviation airports this last biennium. To mention a few:

- The new Bowman airport opened in May of 2015.
- Garrison, Hettinger, Linton, Edgeley, and Langdon all underwent major runway rehabilitation projects.
- Mohall, Stanley, and Tioga underwent major taxiway and apron construction projects.
- Kenmare, Ellendale, and Harvey received major runway lighting rehabilitations.

The state has also identified multiple high priority projects at the general aviation airports that will be a focus this next biennium which includes runway rehabilitations at Northwood, Ashley, Hillsboro, and the beginning stages of a runway shift and extension at Watford City.

(Slide 12) This last biennium, the aeronautics commission has been working to complete two statewide studies which all have a benefit to the aviation community and decision makers. The economic impact of aviation update along with a new inventory of our airport pavement condition were both completed in early 2016.

(Slide 13) To provide you with some information from our economic impact study, I need to first describe how we went about the study to ensure that the data we collected is consistent with industry standards and is reliable. It is first important to acknowledge that our state is comprised of 8 commercial service airports, 81 public-use airports, and over 150 private-use air strips that are not shown on this graphic. For the purposes of our study, we analyzed the benefits that each of our 89 public-use airports have on the state's economy.

(Slide 14) Airports essentially provide 5 sources of economic impacts. We carefully analyzed all 5 areas which are comprised of airport management jobs, airport tenant jobs and business income, capital improvement projects, and spending as it related to visitors that arrive into North Dakota either on a commercial airline or via general aviation.

(Slide 15) This slide depicts the breakdown of each of the categories that I previously mentioned. The study had concluded that airports support over 12,200 jobs with a payroll over \$500 million and a total economic output of \$1.56 billion dollars.

(Slide 16) The \$1.56 billion in economic activity is a 47% increase from the same impacts that were studied in 2010. Airport supported jobs, state and local sales tax revenues, and air visitors throughout the state have increased substantially over the same 5 year time period.

(Slide 17) This graphic shows the route of every flight plan that was filed by business or general aviation aircraft over a 1 year period. This shows how useful our airports are to our state outside of the benefits of our commercial airlines. Please feel free to review the executive summary of this study that has been provided in your packet and visit our website to view a full presentation of the results.

(Slide 18) Every three years, the aeronautics commission contracts with an experienced pavement consultant firm to inspect and take inventory of all of the airport pavements throughout the state. The recent update was finalized in 2015 and the results can be found on our interactive website. This website shows the condition of each pavement section at our airports throughout the state, along with deterioration details, photos, projected future conditions, and a recommended funding plans to ensure that the pavements are maintained in the most cost beneficial way. This study has really been a revolutionary way for our state to manage its airport pavements and has served us very well.

(Slide 19) The recent pavement study shows that there exists approximately 55 million square feet of pavement at our airports that needs to be maintained.

The graphic on this slide shows a summary of the condition of all of the airport pavement. Approximately 83% of the pavement was identified to be in fair to good condition which leaves 17% of the pavement in fair or poor condition which would require a major rehabilitation project.

(Slide 20) 72 out of the 89 public use airports in the state are paved. The breakdown includes 8 commercial service airports and 64 general aviation airports. Of those 64 general aviation airports, 45 are eligible to receive federal aid, and 19 general aviation airports rely solely upon state and local funds to stay open.

The two pie charts on the bottom of the slide show how much pavement is being utilized by function (runway, taxiway ect.) and how much pavement exists between our 8 commercial service airports and the 64 paved general aviation airports. As you can see from the graphics, most of our pavement that we need to maintain is for the function of a runway and the 8 commercials service airports actually have more pavement to maintain than the 64 general aviation airports combined.

(Slide 21) There currently exists 33 Automated Weather Observation Systems at airports across the state which greatly help to provide weather to pilots, businesses, and medical providers as they fly into and around our communities. The aeronautics commission currently covers the costs of the scheduled tri-annual inspections at these airports to help reduce the overall cost of maintenance to each community. Each local airport however, is responsible for the costs of any repair parts that will be needed as breakdowns occur, but the Aeronautics Commission grant program may be used to help with those costs as well. This program has been a great success as the state continues to support the maintenance of these weather reporting facilities.

(Slide 22) For your reference, this slide shows a map of the AWOS coverage within the state. Each of the blue shaded areas depicted on this map represents a 30 nautical mile radius of on-site weather reporting. The challenge that our state currently faces is that their currently exists approximately a half of a million dollars in deferred maintenance and technology update costs at these sites. Our agency is working with the airports throughout the state to phase these updates and ensure that the network continues to be maintained.

(Slide 23) During the fall of each year, the North Dakota Aeronautics Commission staff meets with over 50 of the public use airports in the state to review their capital improvement plan for the next 10 years. Throughout this process, projects are identified and cost estimates are submitted so that the agency can calculate the total amount of projects requests that exist within the system. The agency can then work

with the federal government and each local airport to identify and prioritize the projects. There is always the understanding that we will not be able to accommodate all identified projects as shown on this graph, but this process ensures that we find the best and most justified projects. In our most recent statewide capital improvement plan update, we have found that over \$600 million dollars of identified projects exist at our airports that could take place in the next 5 years and an additional \$350 million that exist in the following 5 years. The statewide capital improvement plan included in your packet provides a detailed breakdown of the identified projects.

(Slide 24) As we work to maintain our airport infrastructure, federal funding has and will continue to be a key part of solving the infrastructure funding challenges that our state is currently facing. 54 of our 89 airports are eligible to receive federal dollars and they compete for these funds nationally and may receive up to 90% funding if funds are available. It is very important to understand that federal funding is not guaranteed and that there have been many cases where federal grants have been provided at less than 90% due to this being the case. A recent example of funding being provided at less than 90% is the Bismarck runway project. This past year, phase 1 of the Bismarck runway reconstruction project came in at \$23 million dollars. The federal government provided approximately \$13 million in grant funding which left \$10 million in remaining funds for the state or local governments to pick up.

Nationally, the federal dollars that are made available for airport infrastructure projects has remained very similar to the levels provided since 2001, however costs for maintaining and growing airports across the country has continued to increase resulting in higher competition for those federal dollars. Federal funding is currently authorized through April of 2017 and Congress will need to pass a reauthorization bill sometime this year to ensure continued funding for airport infrastructure projects.

Knowing how important it is to leverage federal funding for much needed infrastructure projects in North Dakota, I have met multiple times with upper level FAA personnel at their national and regional offices. It is important for us to continually engage the federal government to educate on the needs of the state. By presenting high priority projects that are justified and shovel ready, we increase the chances of our ability to receive federal funds. Also, having the flexibility to access state and local funds to partner with the federal government on key projects is critical to leveraging every federal dollar.

(Slide 25) This chart shows the historical FAA funding that has been brought into North Dakota. The state's normal 10 year average of annual funding for airport infrastructure projects has been approximately 23 million dollars. You can see that over the last 5 years that we were have been successful in bringing in significantly higher than average federal funding for airport infrastructure projects. Even at a time when federal dollars are continually harder to bring into the state, we have been successful due to the justified infrastructure needs and the ability to leverage federal dollars with additional state and local dollars. We are hopeful that as we continue to educate the FAA on the needs within the state, that their level of funding and commitment to help with our infrastructure challenges continues into the future.

(Slide 26) This graphic represents the state dollars that have historically been made available for airport infrastructure grants. You may notice that the increase in state funding has occurred in the years that we also saw an increase in federal funds being brought into the state which was shown on the previous slide. The additional state dollars that have been made available for airport projects has been and will continue to be critical to leverage and maintain federal funding at a high level.

The increase in state funding from the Aeronautics Commission in previous years has been made from one-time general fund allocations and an increase in special fund revenue from aircraft fuel sales and excise tax revenue. The state also allocated \$60 million dollars in oil impact funding in the 2013-2015 biennium. In the 2015-2017 biennium, an additional \$48 million in oil impact dollars had been allocated through the oil impact fund, however the lack of revenue's to that fund has only allowed \$3 million to be allocated to airports to date, which remains to be a problem.

Due to this lack of revenue in the oil impact fund, there currently exists a remaining \$45 million dollar obligation from the state to help fund the Williston airport relocation project and critical infrastructure improvements at the Dickinson airport. Failure to provide those state dollars could compromise current and future federal grant funds and the projects themselves.

(Slide 27) The Aeronautics Commission budget is comprised of both special fund and general fund dollars. The special fund dollars are received from multiple revenue streams such as fuel taxes, aircraft excise, and registrations taxes. We also receive funding from the federal government for conducting airport inspections.

The Aeronautics Commission is currently budgeted to receive 900,000 in general fund allocation for airport improvements in the next biennium which is a \$100,000 or 10% reduction from last biennium to meet the Governor's budget request guideline. The reduction of funds occurs in the airport grant line item.

(Slide 28) This slide provides a graphical view of the current budget status. The airport grants line item is currently the largest expenditure of our agency which is appropriate as the commission feels that it is important that the aviation tax dollars being collected goes back out to the communities for infrastructure related projects. The proposed budget currently plans for a total of 7 million dollars to be made available for airport grants in the upcoming biennium. I also want to note that Senate Bill 2006 in its current form does not deviate from the "base level" of the Governor's budget recommendations.

ND Aeronautics Commission Budget

Proposed budget reductions to meet Governor's 90% budget request guidelines:

Description	2015-2017 General Fund	2017-2019 General Fund	Total Reduction
4	1		v
Airport Infrastructure Grants	\$1,000,000	\$900,000	\$100,000

Comparison of Optional Adjustment Requests made by Aeronautics Commission that was not included in the Governor's Budget:

Description	2017-2019 General Fund	Senate Bill 2006
Request - One time Airport Infrastructure Funding	\$9,000,000	\$0

One-time general fund appropriation of \$9 million dollars in grant funding was requested by the agency to aid the needs of the public airport infrastructure throughout the state. This funding would particularly help to fund a critically identified project need in the capital city - the Bismarck Airport primary runway reconstruction project which is currently estimated at \$70 million.

Multiple needs are present in the airport infrastructure throughout the state during the next biennium timeframe. These airport needs have been identified through multiple statewide studies and the state's current statewide airport capital improvement plan. All studies can be found at the Aeronautics Commission website at https://aero.nd.gov. The statewide capital improvement plan has identified over \$600 million in airport projects over the next 5 years.

The state also conducted a pavement condition index study in 2015 where an inventory of the condition of all pavements at the public use airports were identified. This study shows that there currently exists approximately \$152 million in pavement rehabilitation and repair needs throughout the state. The Aeronautics Commission understands that not all needs can be accommodated under the current financial situation of federal, state, and local governments and that certain projects need to be prioritized. This prioritization process is exactly what the commission is able to accomplish through its annual airport grant program.

The Aeronautics Commission's base funding level currently allows for \$7 million dollars to be made available for grant funding over the next biennium. This \$7 million dollar amount includes the only general fund dollars that the agency receives at a projected \$900,000 base level. All additional grant funding, staff salaries, and agency operations are funded with special funds. The \$7 million dollar level of funding over the 2017-2019 timeframe is insufficient to match the projected federal funds that the state is expected to receive and to maintain the infrastructure of the 89 public use airports. It is also important to note that 36 of the public airports that exist in the system are ineligible to receive federal funding and rely solely upon state and local funding to be maintained.







Agency Mission

To serve the public by providing economic and technical assistance for the aviation community while ensuring the safe and cost effective advancement of aviation in North Dakota.



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Aeronautics Commission Members

5 Member Board Appointed by the Governor



Cindy Schreiber-Beck, Wahpeton



Jay B. Lindquist, Hettinger



Dr. Kim Kenville, Grand Forks



Maurice Cook, Bismarck



Warren Pietsch, Minot

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North Dakota Aeronautics Commission Functions

Airport Infrastructure Grant Funding

Aviation Education Promotion and Funding

Airport Safety Inspections

Update Aviation Publications and Planning Documents

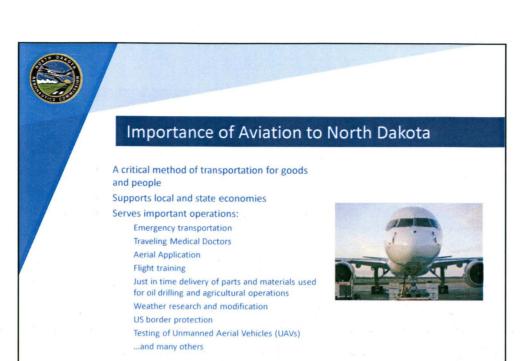
Regulatory Functions to include:

Aircraft Registrations
Aerial Applicator Licensing
Aircraft Dealers
Aircraft Excise and Fuel Tax

Represent the state in aeronautical matters before state and federal agencies



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Project Highlights

Key Airport Infrastructure Projects

Commercial Service Airports

Fargo

Parallel Taxiway Rehabilitation Phase 1 and 2 Final Phase to be completed in 2017

Grand Forks

Eastside General Aviation Area Redevelopment

Master Plan Update

Runway Lighting Improvements planned in 2017

Devils Lake

Runway Safety Area Improvements

Crosswind Runway Rehabilitation planned in 2017

Jamestown

Completion of Key Wetland Mitigation Project

Jet bridge and terminal improvements

Crosswind Runway Rehabilitation planned in 2018

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Project Highlights

Key Airport Infrastructure Projects

Commercial Service Airports

Minot

Terminal Building, Parking Lot, Access Roads, Commercial Terminal Apron completed in February 2016 and is now open for the public

Completing Airport Master Plan Process

Planning major storm water improvements and ARFF building expansion

Bismarck

Runway Reconstruction Phase 1 was Bid in 2016

Phase 2 and 3 are planned in 2017 and 2018

Dickinson

Runway Safety Area Improvements, environmental/planning work

Land Acquisition and Taxiway improvements planned for 2017/2018

Primary Runway Reconstruction planned for 2019/2020

Williston

Acquired Land for new airport development and ground breaking held Fall of 2016.

Targeted opening for new airport is Fall 2019

FAA Funding to date on new airport - \$54.5 million

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Project Highlights

Key Airport Infrastructure Projects

General Aviation Airports

- New Bowman airport opened in May of 2015
- Garrison, Hettinger, Linton, Edgeley, Langdon Runway Rehabilitation
- Mohall, Stanley, and Tioga Taxiway and apron construction
- Kenmare, Ellendale and Harvey New runway lighting

Upcoming Runway Rehabilitations

- Northwood
- Ashley
- Hillsboro
- Watford City

Includes proposed Runway Extension

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Statewide Aviation Studies

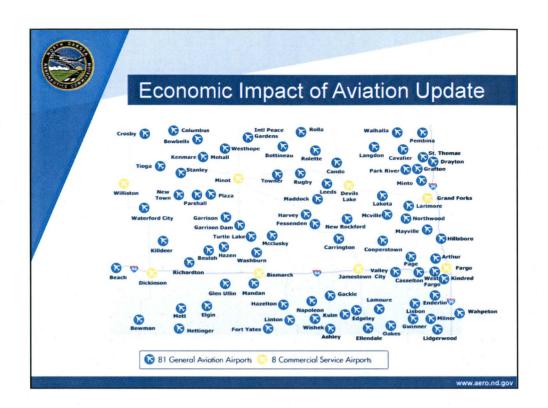
Economic Impact of Aviation Update

Deliverables were made available Spring 2016

Statewide Pavement Condition Index Study

Online website is now available and final paper deliverables were made available Spring 2016

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Total Economic Impacts

Total Airport Management
Total Airport Tenants
Total Capital Investments
Total General Aviation Visitors
Total Commercial Visitors
Total Statewide Annual Impacts

Total Payroll	Total Output
\$13.4 million	\$85.5 million
\$223.9 million	\$626.7 million
\$63.5 million	\$173.0 million
\$26.9 million	\$101.1 million
	\$578.1 million
\$505.2 million	\$1.56 billion





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Economic Impact of Aviation

Key Findings

Airports support \$1.56 billion in annual economic activity

Annual economic impacts for public-use airports up 47% since 2010

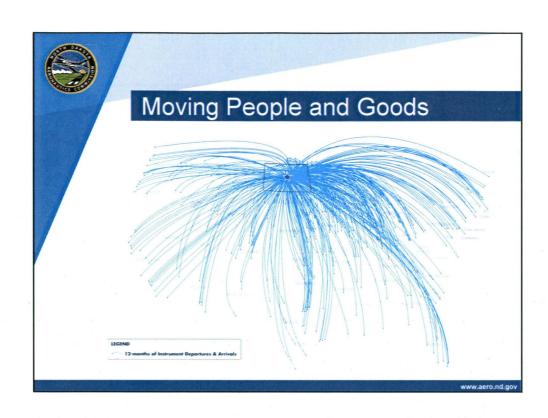
Airport supported jobs have grown from 8,872 to 12,217, an increase of 3,345 jobs

State and local aviation sales tax revenues have increased from \$31.1 million to over \$60 million

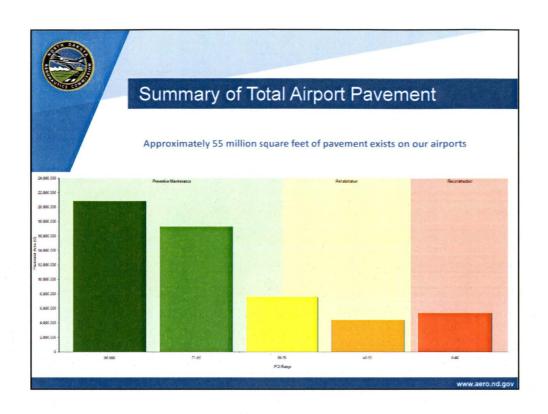
Air visitors to North Dakota have grown from 545,300 to 915,290

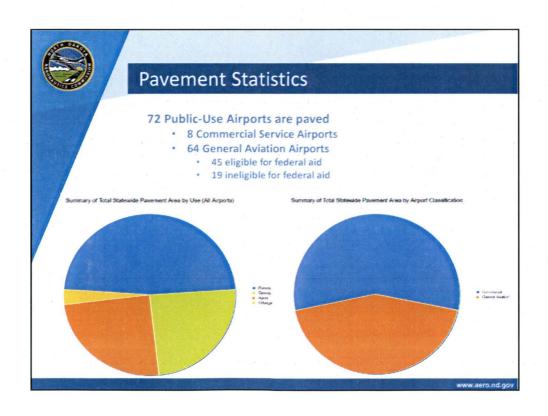


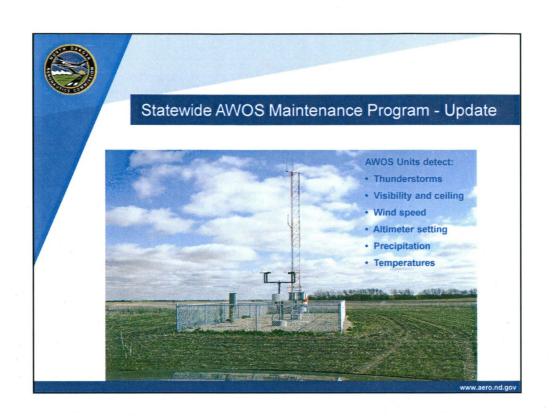
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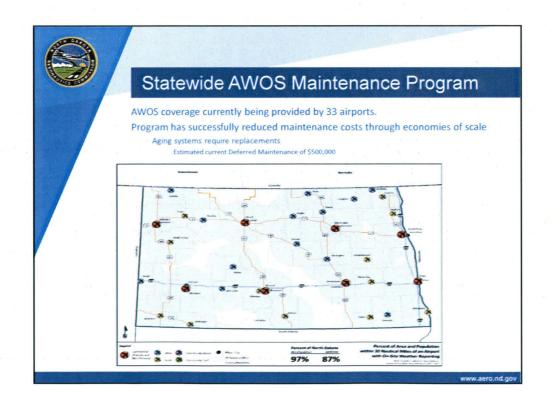














Statewide Airport Infrastructure Needs

Statewide Capital Improvement Plan is updated on an annual basis.

1-5 year project costs: \$600 million6-10 year project costs: \$350 millionTotal 10 year project costs: \$950 million

Airport Infastructure - Identified Projects

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Commercial Service Airports

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Federal Funding Outlook

North Dakota airports compete nationally for federal dollars

FAA may provide funding of up to 90% for high priority projects $\underline{\text{if funding is available.}}$

Many projects receive less than 90% in federal aid.

Federal dollars available nationally for airport infrastructure projects has remained at similar levels provided since 2001.

Funding is currently authorized through April 2017.

Recommendations to increase Federal funding

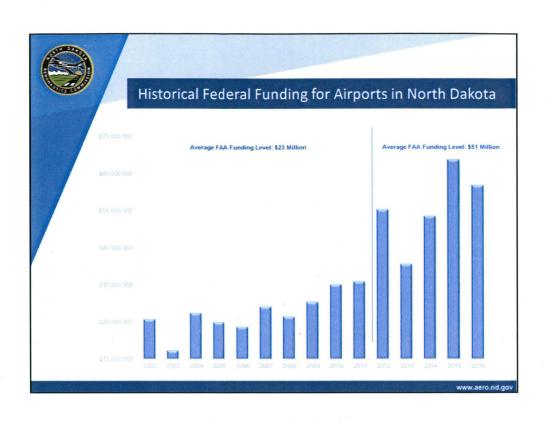
Continually educate the FAA on the needs of the state

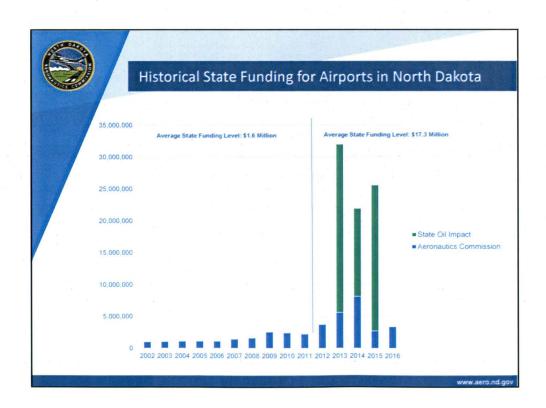
Present high priority projects that are justified

Ability to have shovel ready projects

Ability to partner on funding projects through state and local funds

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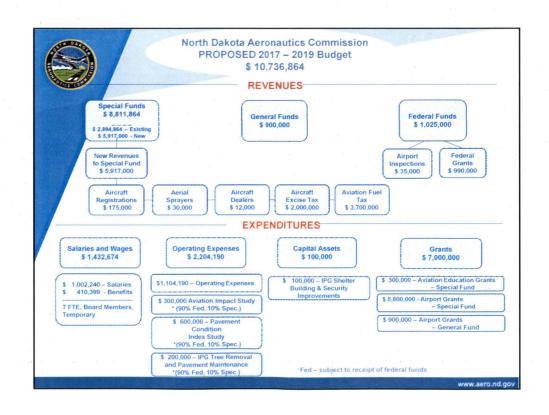


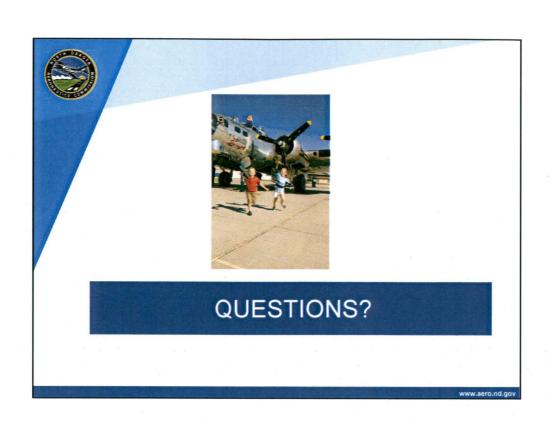


Aeronautics Commission Funding

- Main Sources of Revenue
 - Special Fund
 - **Aviation Fuel Tax**
 - Aircraft Excise Tax
 - Aircraft Registrations
 - **Airport Inspections**
 - **Aerial Applicator Licensing**
 - Aircraft Dealer Registrations
 - General Fund
 - The upcoming biennium budget currently calls for \$900,000 in general fund dollars.

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FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
1	Fargo	Taxiway A Reconstruction (Twy C to Rwy 18)	45	64	7150	
	FAR	SRE Building Expansion ('18) / SRE Equipment	32	36	1450	750
		Rwy 18/36 CL/TDZ Lighting	56	45	1350	
		Cargo Apron Expansion	44	38	2250	
- 1	- 10 N	Pavement Rehabilitation	56	66	450	1000
		Terminal Building Expan. (Gate 6)	31	93	4500	
70		Terminal Apron Reconstruction	54	47		8000
		Rwy 18L/36R EA, Design, Construction	26	49	2.7	8350
- 1		Rwy 9/27 Ext./Widening / Par. Txy EA, Design,Construc.	46	51		21350
		North GA Taxilane Extensions / East GA Expansion	45	38		3000
		Parking Lot Expansion	23	27		2000
		Twy D Reconstruction	45	38		3500
2	Bismarck	Wetland Mitigation - Phase 5- 6 / Drainage Improv.	31	59	3000	
	BIS	GA Apron Expansion	44	64	2000	2000
		Rehabilitate Rwy 13/31 / Phase II Grant App - '17	56	70	60000	
	1 1	Rehabilitate Rwy 03/21	56	66	5000	
		Rehabilitate Taxiway D	56	64	4000	
	- '	Relocate Yegen Road	32	50		5000
	1	EA / RPZ Land Purchase	41	44	2000	
		Expand SRE & ARFF Building	31	46	3000	
		Commercial Terminal Building Update/Expansion	31	93	1500	4000
		Snow Removal / ARFF Equipment	32	70	2000	1000
3	Grand Forks	Rwy 17R/35L, Txy A Light. Rehab.(Design '17, Const. '18)	56	45	3200	
	GFK	Master Plan/ALP Update, Exhibit A, Reimbursem. 2015 Grant	31	42	60	
		Twy U Reconstruction (Design and Construct. '17)	45	64	1400	
		Rwy 17R/35L Reconstruct (EA '19, Design '20, Const. '21)	56	54	38550	
		West GA Taxiway/Taxilane Construction	45	38	1300	
	F 7 24.	Terminal Apron Expan. Design and Construct.	44	38		8750
	" pr w	ARFF Truck	32	36		850
		Taxiway/Taxilanes Old Terminal Area, Design	45	38		150
		Rwy 9L/27R Exten. Design and Construct	46	56		41100
4	Minot	ARFF Station Rehab (Design '17)	12	36	2800	-
7	MOT	Wildlife Hazard Mitigation (EA '18)	31	66	300	_
		Storm Water Pond - (EA '17)	31	66	3700	- 1
		GA Apron Rehap (North - '18, South '19 & '20)	54	55	3000	
		Purchase SRE Equipment	32	36	3300	500
		Purchase ARFF Truck	52	36	850	300
		Taxiway B Rehab	45	38	5200	
		Replace/Upgrade Airfield Security Fence	31	83	3000	
		Pavement Maintenance (RTA,RCF, Seal), Remarking	56	68	500	1000
		Runway 8/26 Reconstruction (Design 21')	56	66		20000

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
5	Jamestown	Pavement Maintenance (RTA,RCF, Seal), Remarking	56	66	350	400
- 1	JMS	Rwy 4/22 Rehabilitation (Design '17, Const. '18)	56	66	3550	
1		West Taxilane Reconstruction	45	64	250	
1		Purchase SRE Plow Truck	32	36	375	
-1		Parking Lot Expansion	23	27	125	
-1		Taxiway A, B, C, D, E Rehabilita. (Design '20, Const. '21)	45	64	3200	
- 1		Terminal Apron Rehabilitation	44	55		1000
		W. Industrial Park Infrastr. Improv. (D. '23, C. '24-'25)	11			3025
6	Williston	Design Airport Infastructure	41	52	15000	
П	ISN / XWA	Construct Terminal Building	33	40	60000	
- 1		Construct SRE/ARFF/Parking Lot/Access Rd	32	48	30000	
- 1		WHA / Navaid Reimbursable	41	64	3000	
- 1		Construct Security Fence	31	57	2000	
-1		Construct Airport Pavement, Lighting	56	65	90000	5000
- 1		Construct Roadway/Infastructure to Airport	31	23	10000	
- 1		Construct Airport Security System	31	31	1000	
- 1		SRE	32	45	1200	800
-1		FBO & Hangars/Fuel Facilities	33	21	1000	2000
7	Devils Lake	Rwy 3/21, Taxiway A1/A2 Rehabilitation, Apron Reconfig.	56	66	1500	
-1	DVL	SRE Equipment	32	36	150	300
- 1		Land Acquisition (Relocate Building)	41	42	500	
-1		Apron Reconstruction ('21 Design, '22 Construction)	44	55	100	1500
-1		Rwy 13/31 Rehabilitation	56	66	3,000	2000
-1		Security Upgrades/Access Control System	42			300
- 1		Emergency Generator	32		-	200
- 1		GA Apron Lighting	31			100
- 1		GA Hangar	12	29		500
1		Deicing Containment Facility	22			200
3	Dickinson	Terminal Design and Construction	33	45	30000	
1	DIK	Land Acq./Design/Reconstruct Runway 14/32	56	68	45000	
-1		Construct Parallel Taxiway/Taxiway B Improvements	45	64	17000	
- 1		EA & Runway Maintenance	56	68	4000	300
- 1		Terminal Access and Parking Lot	31	40	1000	9000
- 1		Install Wildlife Fence	31	57	600	
- 1		ARFF Truck / ARFF Building Expansion	32	41		2500
-1		Construct Commercial Service Apron	44	47		9000
- 1		Construct txy for hangars / Access Road	55	66		5000
- 1		Crosswind Parallel Taxiway	45	61		3000
1		Onsite Water Tank and Sanitary System	31	· ·		3000
		SRE/SRE Building Expansion	32	45	1000	3000
		TOTAL COMMERCIAL SERVICE AIRPORT NEEDS	, 52	-10	487,710	184,72

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
	n	Rwy 14/32,Txwy, Apron Rehab/Overlay Construction	56	66	1400	
9	Ashley	RSA , Land Acquisition	41	42	25	
- 1	ASY	Install LED MIRL's,PAPI, Beacon, Windcone	56	45	500	
- 1		Instrument Approach Procedure	37	50	150	
		AWOS III	32	38		250
		SRE	32	36	- V	200
- 1		SRE Building	32	36	7 2	150
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
		Pave SRE/Terminal Access Rd, Apron, CS (Phase II)	33	50	500	1
10	Beach	ALP/MP Update with AGIS and Exhibit A	31	42	250	
	2OU	Construct Hangar (Design '20)	12	29	550	
		Pavement Maintenance (RTA,RCF, Seal)	56	66	40	100
- 1		Rehab Rwy 12-30, Txwy and Apron (Design '24)	46	66		3100
- 1		Construct X-Wind Runway	46	59	1 2 5	1500
		Construct Fence and Signage	31	38		2000
- 1		Construct Parallel Txwy	45	64		700
		Construct Apron Expansion	54	38		400
		Construct Fuel System	22	17	300	
11	Bottineau	Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
	DO9	Construct Taxiway	56	68	300	
		Construct X-Wind Runway	45	46	500	
		Hangar Demo / Construct New Hangar	12	29	800	
- 1		Rehab Rwy 13-31, Txwy and Apron (Design '21)	56	66		2100
		Construct Fence and Signage	31	38		2500
		ALP/MP Update with AGIS and Exhibit A	31	42		250
		Construct Parallel Txwy Extension Phase I (Design '17)	45	. 48	3400	
12	Bowman	Purchase SRE Equipment	32	45	250	
	BWW	Construct Crosswind Runway	46	59	300	8000
		Construct Taxilane	45	47		1000
		Construct Hangar (Design '19)	12	36	1200	
		Pavement Maintenance	56	66	100	200
		Rwy16/34, Taxiway, Apron Rehabilitat. ('18 Design, '19 Constr.)	56	66	1,100	
13	Cando	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
	9D7	Fuel System	22	17		250
< 1		Wildlife Assessment/WHMP	31	55		50
		Wildlife Fence and Signage	31	38		1500
_		Rwy 13/31, Taxiway, Apron Rehab. ('18 Design, '19-'20 Constr.)	56	66	1500	1000
14	Carrington	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	200
A	46D	Airfield Lighting Improvements Design and Construction	56	45		500
	400	New Hangar '26 Design and '27 Construction	12	29		830
		Wildlife Assessment/WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1500

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_						_
>	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
	N	NW and SE Apron Rehabilitation ('17 Design, '18 Construc.)	44	- 55	300	
15	Casselton	Taxiway A Rehabilitation ('20 Design, '21 Construction)	45	64	300	
	5N8	Rwy 13/31 and MIRL Reconstruction ('22 Design, '23 Constr.)	56	66		5700
٠.		NW and SE Apron Reconstruction	44	55	2900	
		T-Hangar ('30 Design, '31 Construction)	12	29		675
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
16	Cavalier	Parallel Taxiway Construction	45	64	800	
	2C8	SRE Equipment	32	36		200
		Pavement Maintenance (RTA, RCF, Microsurface)	56	66	150	300
- 1		PAPI and Flight Check	56	45	150	
- 1		New Hangar Taxilane	45	38		550
- 1		Rwy 16/34 Rehabilitation, Overlay	46	66		550
- 1		New Hangar	12	29		650
- 1		Wildlife Assessment/WHMP	. 31	55	100	
		Wildlife Fence and Signage	31	38	1500	2.0
		Land Acquisition RPZ/Transitional Surfaces (70 Acres)	41	42	350	
17	Cooperstown	ALP/MP Update with AGIS and Exhibit A	31	42		100
	S32	Pavement Maintenance (RTA, RCF, Seal)	56	66		200
٠.	-	Rwy 13/31, Taxiway, Apron Rehabilitation	56	66	1000	
- 1		Pave Access Road	33	20		250
- 1		Parallel Taxiway Construction	45	64		500
- 1		Apron Expansion	44	38		500
_		Crosswind Rwy Construction	26	49		900
		Extend Txln and Rehab, Demo Building, Construct Txwy	45	52	430	
18	Crosby	EA for Rwy Extension	46	48	130	
10	D50	Rwy Extension Land Acquisition and Wetland Delineation	46	51	300	
. 1	D30	Construct Hangar (Design '24)	12	29	300	700
- 1		ALP/MP Update with AGIS and Exhibit A	31	42		150
- 1			56	66	2200	150
- 1		Rwy and Txwy Rehab (Design '21)			2200	500
- 1		SRE Building Construction / SRE	32	36	450	500
- 1		Construct Jet A Fuel System	12	17	150	
_		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
19	Dunseith - IPG	Obstacle Removal	57	50	100	
	S28	ALP/MP Update with AGIS and Exhibit A	51	42	250	
-		Instrument Approach Development (3rd Party - Hughes)	57	42	50	
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	
- 1		Construct Terminal Shelter and Security Upgrades	21		50	
- 1		Land Acquisition - Rwy 28 RPZ	56	42	500	
- 1		Rehabilitation of Pavement Surfaces (Design '23)	56	66		1100
		Wildlife Fence and Signage	51	. 38		2000
		Fuel System (Jet - A)	22	17	250	
20	Edgeley	ALP/MP Update with AGIS and Exhibit A	31	42	150	
	51D	Snow Removal Equipment (SRE)	32	36	200	
		Wildlife Hazard Assessment/WHMP	31	55	200	
. 1		Upgrade Windcone and Beacon	42	44		100
4.4		Wildlife Fence and Signage	31	38	800	800
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100

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					Projects (The	Jusanus
	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
	V V	New 100LL Fuel System	22	17	225	
21	Ellendale	Access Road Improvements	33	20	325	
- 4	4E7	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	50
		Rwy 17/35 Rehabilitation	56	66	200	
		Rwy 13/31 Rehabilitation	56	66		600
		Wildlife Assessment/WHMP	31	55	100	
		Wildlife Fence and Signage	31	38	1500	
		Apron Rehabilitation	44	38		500
П		Construct New Terminal Building & Misc Improvements	32	36	600	
22	Ft. Yates	Aeronautical Survey / IAP Development	37	50	100	
	Y27	New PAPIs and Threshold Lights	56	45	200	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	200
		Construct Hangar	12	29		600
		Construct SRE Building	32	36		700
2		Access Road Improvements	33	20		600
		Install AWOS	32	38		200
\Box		Construct NE Taxilane (Design '19)	45	38	600	T
23	Garrison	Construct New Terminal Building (Design '21)	21	29	500	
	D05	Rehab Taxilane (Design '24)	45	38		600
		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
		Install AWOS	32	48		300
		Land Acquisition (EA '29) / RPZ	41	41	100	600
		SRE Equipment	32	36		300
		Construct Fence and Signage	31	38		2000
		Update ALP/MP with AGIS and Exhibit A	31	42		200
		Pavement Maintenance (RTA, RCF, Seal)	56	66	300	300
24	Glen Ullin	Rehab Runway, MIRL and Taxiway (Design '19)	56	66	100	1500
	D57	Rehab Apron (Design '26)	54	56		2000
		Taxilane Extension	45	38	500	
		Construct Hangar	12	29		400
		Construct X-wind Rwy, EA, RPZ Land Acquisition	46	59		700
		TRANSFER TO UNKNOWN	46	59		
25	Grafton	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	300
	GAF	Rwy 17/35 Lighting Rehabilitation/ PAPI Replacement	56	45	270	
		Hangar Taxilane/ Apron Rehabilita. (Phase 1-'18, Phas. 2-'19)	45	38	250	
		New Hangar ('19 Design, '20 Construction)	12	29	750	
		Rwy 17/35 Rehabilitation/Rejuvenator	56	66		1000
		Road Relocation/Obstruction Removal	47	57		250
		Wildlife Assessment/WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1000

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	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
26	Gwinner	Snow Removal Equipment (SRE)	32	36	275	
	GWR	New Hangar ('17 Design, '19 Construction)	12	29	650	
- 1		East Access Road Improvements	33	20 .	450	
- 1		Land Acquisition, 17 Acres (Wildlife Fence)	41	42		275
		Wildlife Hazard Assessment (WHA), WHMP	31	55	100	100
- 1		Wildlife Fence and Signage	31	38	1500	
- 1		SRE Building	32	36		800
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
27	Harvey	Pavement Maintenance (RTA, RCF, Slurry Seal)	56	66	300	
	5H4	Land Acquisition and EA	41	42	500	
- 1		Rwy 11/29, Taxiway, Apron Rehabilitation, Mill and Overlay	46	66		1500
- 1		New Crosswind Rwy	46	59		800
- 1		Update ALP/MP with AGIS and Exhibit A	31	42		150
- 1		Parallel Taxiway	45	64		500
		Apron Expansion	44	38		300
		Wildlife Fence and Signage	31	38	1000	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
28	Hazen	Rehabilitate Runway 14-32	56	66		2100
	HZE	Wildlife Hazard Site Visit / Signage / Fence	31	62		2500
- 1		Construct Hangar	12	29	600	-
		ALP/MP Update with AGIS and Exhibit A	31	62		200
- 1		Construct Crosswind Runway	46	49		500
		Construct Fueling System	12	17		150
- 1		Windcone Replacement and New Taxilane Widening	45	39	300	
		Install MIRLS and Signage	56	45		500
		Construct Parallel Taxiway	45	46		600
\neg		Rehab Txy A South (Phase I) / Txy C and A North (Phase II)	55	58	2200	
29	Hettinger	Construct New Taxilane	45	38		500
	HEI	Rehab Apron	54	55	33.57	1100
- 1		Install MITL System	54	44		300
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100
		Rwy 16/34 Reconstruction	56	66	4500	
30	Hillsboro	Partial Parallel Taxiway and Hangar Taxilane	45	64	2300	
	3H4	Full Parallel Taxiway	45	38	3000	
- 1	•	Land Acquisition / EA (Rwy Extension)	41	42	450	_
- 1		Rwy 16/34 Extension	46	51	100	6500
		New Hangar	12	29		1000
		AWOS	32	38		150
		Reconstruct Service Road	33	20		500
		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Slurry Seal)	56	66	25	100

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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					i rojects (riic	,
	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
	*	Reconstruct Airport Access Road / Expansion (Design '17)	33	20	300	
31	Kenmare	East Hangar Area Expansion (EA '19)	45	47	800	1100
	7K5	Relocate Fuel System	22	17		80
		Runway 16-34 Expansion (EA '26)	46	42		300
1.0		Construct GA Terminal Building	21	35		500
		Pavement Maintenance (RTA, RCF, Seal)	56	68	100	300
		Install AWOS	32	47	2 7 7	200
32	Kindred	Drainage Improv./Turf Rwy/Wdcon./Seg. Cir. ('17 D, '19 C)	56	56	1250	
	K74	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	400
- 1		Land Acquisition/Survey (Hangar Area, 4.9 Acres)	41	42	175	
- 1		Wetland Mitigation (6 Acres)	36	54	150	
- 1		Taxiway Rehabilitation	45	64		500
- 1		EA Fuel Facility Concrete Pads (30' X 20')	12	46		75
- 1		Rwy 11/29 Extension, Parallel Taxiway Construction, EA	46	51		1800
- 1		Wildlife Assessment (WHA), WHMP	31	55	V	100
- 1		New Hangar	12	29		600
		Wildlife Fence and Signage	31	38		1000
33	Lakota	Hangar Taxilane, Park. Lot, Fuel Acc. Road ('17 D, '18 C)	45	64	500	
	5LO	Rwy 11/29 and Turnaround Rehab. ('20 Design, '21 Constr.)	56	66	1650	
- 1		Parking Lot Design and Construct	23	27	1000	150
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Wildlife Assessment (WHA), WHMP	31	55		100
		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	150
34	LaMoure	Replace Rwy 16/34 Lights	56	45	250	100
•	4F9	Twy Reconstruction	45	64	200	-
٧,		Apron Reconstruction	44	38	500	_
- 1		Acquire Land (Protective Surfaces)	41	42		300
		Wetland Mitigation	36	38		200
- 1		Wildlife Assessment (WHA), WHMP	31	55		150
- 1		GA Terminal	21	29	200	100
- 1		New Hangar	12	29	200	500
- 1		Fuel System	22	17		200
		Rwy 14/32 Lighting and Signage Rehabilitation	56	45	250	
35	Langdon	ALP/MP Update with AGIS and Exhibit A	31	42	250	
	D55	SRE Equipment	32	36	350	
		Hangar Taxilane Reconstruction	45	64	600	
		Parallel Taxiway ('21 Desgin, '22 Construction)	45	64	150	850
		New Hangar	12	29		1000
		GA Terminal Rehabilitation	21	29		150
		Rwy 8/26 Rehabilitation (Crosswind)	56	66		600
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		aremone mantenance (IVIA, IVOI , Obai)	. 50	00	00	100

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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Т	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
_		Install MIRLS, Windcone , Beacon and Vault	56	51	500	110.
36	Linton	Runway 9/27 Extension (EA '20)	46	51	200	1000
	7L2	ALP/MP Update & AGIS and Exhibit A	31	42		200
		Construct Parallel Taxiway	45	64		1500
		Construct Hangar / SRE Building	12	36		400
		Access Road Improvements	33	20	500	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	
		Helipad Apron Expansion	44	38	120	
37	Lisbon	Apron Expansion	44	38	400	1200
	6L3	Update ALP/MP with AGIS and Exhibit A	31	42	150	
		Parallel Taxiway	45	64		400
		Rwy 14/32, Taxiway Rehabilitation	56	66		600
- 1		Rwy 3/21 Expansion	46	51		200
		Rwy 14/32 Light Rehablitation (LED)	56	45		250
1		SRE/Terminal Building	32	36		200
		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100
\neg		Wildlife Fence (Design '17) / Wetland Mitigation/ Drainage	31	38	3200	
38	Mandan	Reconstruct Hangar Taxilane	45	46	2000	
	Y19	Construct Taxilane	45	46	400	400
.		Pavement Maintenance (RTA, RCF, Seal)	56	70	160	400
		Construct Runway Expansion (EA '18)	46	48		4200
		AGIS Update / Aeronautical Survey and Exhibit A	31	42	120	
- 1		Construct Corporate Apron	31	41		600
- 1		Construct Terminal Building Expansion	21	29	500	
- 1		Relocate County Road and Powerlines	46	48	2000	
		Construct Hangar	12	29	1000	
		Reconstruct Apron	45	46		600
	7 m (2) / x	Construct Runway 13 Extension and Widening (EA '17)	46	51	2200	
39	Mohall	Land Acquisition for Runway 13 Extension (45 acres)	46	48	250	
	HBC	Wetland Mitigation	31	55	200	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	300
- 1		Wildlife Assessment Study	31	55		50
		Construct Wildlife Fence	31	38		2500
- 1		Taxiway Widening and Realignment	45	46		650
		Instrument Approach Development - Rwy 13	37	50		250
		Construct SRE Building	32	44		450
	*	ALP/MP Update / AGIS/Exhibit A for Instrument Procedure	51	62	180	
40	Mott	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
	3P3	Construct Partial Parallel Taxiway	41	42	200	
		Construct Wildlife Fence / WHSV	31	64	50	2000
- 1		Construct Hangar Taxilane	45	46		300
		Install AWOS	32	42		200
		Construct Hangar	12	29	400	
		Construct Runway Extension	46	56		1000

FAA / State National Plan of Integrated Airport System (NPIAS) General Aviation and Commercial Service Program

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					,	
	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		Rwy 8/26, Taxiway, Apron Reconstruction (Overlay)	56	66	2050	
41	Northwood	Taxilane and Apron Expansion ('19 EA, '20 D, '21 C)	45	46	550	
	4V4	Fueling System	22	17		350
- 1		GA Terminal	21	29		600
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	400
		New Rwy (14/32)	46	59		5200
		SRE/Terminal Building	32	36	450	
42	Oakes	Wildlife Hazard Assessment / WHMP	31	55	60	
	2D5	Wildlife Fence and Signage ('19 Design, '20 Construct)	31	38	1000	
- 1		Parallel Taxiway	45	64	100	1000
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Update ALP/MP with AGIS and Exhibit A	31	42	225	
43	Park River	Terminal Parking Lot	23	27	100	_
	Y37	Enviromental Assessment (EA)	46	48	125	_
		Land Acquisition Rwy 13/31 Shift/Extension	46	52	250	_
		Rwy 13/31 Shift Extension and Update Lighting	46	51		1000
- 1		AWOS	32	42		280
		Wildlife Assessment/WHMP	31	55	50	1
		Wildlife Fence and Signage	31	38	1000	
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
\neg	-	Construct Hangar	12	29	520	
44	Parshall	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	200
"	Y74	ALP/MP Update / AGIS/Exhibit A with WHSV	31	62	300	200
- 1		Construct Runway Extension (EA '23)	46	56		1300
- 1		Land Acquisition for Rwy Extension	46	52		600
		Install AWOS	32	42		300
. 1		Construct Apron	44	38		300
		Construct Fence and Signage	31	38	2000	
- 1		Construct Fuel System	22	17	200	
_		Apron / Access Road Reconst. / Taxilane Const. ('17 D / '18 C)	45	64	1000	_
45	Pembina	Flood Protection (Design ' 18, Construction '21)	54		300	
™	PMB	SRE Building Construction (Design '21, Construction '23)	32	36	1500	
	FINID	Parking Area with Secruity Fence	23	27	1000	150
1		Rwy 15/33 and Taxiway Rehabilitate	56	66		1250
- 1		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
- 1		Wildlife Assessment/WHMP	31	55	- 50	50
- 1		Wildlife Fence and Signage	31	38		1000
\rightarrow		Airfield Electrical Project and CS	56	66	450	1000
46	Rolla	Pavement Maintenance (RTA, RCF, Seal)	56	66	200	300
40	06D		32	55	250	300
- 1	000	ALP Update / AGIS and Exhibit A	41		300	+
		Land Acquisition (RPZ)	31	64	300	2000
		Construct Fence and Signage	31	04		2000

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Т		ND.	NDAC		44-5	104-40
	AIRPORT	PROJECT	Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		Airfield Electrical Project, CS and Sfc Treatment	56	66	550	
47	Rugby RUG	Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		Construct SRE Building	32	36 .	500	
		Runway 12-30, Taxiway and Taxilane Rehabilitation	56	66	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	3000
		ALP Update / AGIS and Exhibit A	32	55	. A	250
		WHA, Construct Fence and Signage	31	64		2200
\Box		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	150
48	Stanley	Construct Jet Fuel System	22	17	100	
	08D	Land Acquisition (16.7 Acres)	41	42	300	
		Hangar/Parking Lot Improvements	12	27	800	800
		Construct SRE Building	32	36		400
		AGIS Survey	31	42		100
		Construct Hangar	12	27		800
		Pavement Maintenance (RTA, RCF, Seal)	56	68	300	
49	Tioga	WHSV and WHMP Study	45	62	50	
	D60	Construct Fence and Signage	31	64	1500	
		Runway 12-30 Rehabilitation	56	66		1300
		Construct Full Length Parallel Taxiway (EA '27)	41	42		2400
		Construct Terminal Building	21	40	500	
		Fuel System Relocation - Design and Construction	22	17	400	
		Wildlife Fence, Hangar Park., Cultur. Inv. (D '17, C'18 / '20)	31	38	1000	
50	Valley City	Rwy 13/31 Rehabilitation and Marking	56	66		450
	BAC	Rwy 5/23 Construction (EA '23, Design '26, Construc. '27)	46	59		1300
		Apron Reconstruction (Design '25, Construction '26)	44	38		1100
2		Land Acquisition (95 Acres)	41	42	475	475
		Update ALP/MP with AGIS and Exhibit A	31	42		250
		Pavement Maintenance (RTA, RCF, Seal)	56	66	100	100
		Main Taxiway Reconstruction (Rwy 15 End)	41	64	410	
51	Wahpeton	Apron Rehabilitation (Design '19, Phase 1-'21, Phase2-'22)	44	38	2600	2500
1	BWP	Land Acquisition (Rwy 33 End-House)	56			200
		Rwy 3/21 Paving (Crosswind)	46	59		1000
		Wildlife Fence and Signage	31	38		1000
		Pavement Maintenance (RTA, RCF, Seal)	56	66	50	100
		New Hangar	12	29	650	
52	Walhalla	Update Lighting (MIRL)	56	45	50	300
	96D	Parallel Taxiway Rejuvinate	45	64	250	
		Update ALP/MP with AGIS and Exhibit A	31	42		150
		Need \$ Transfer Out to Another Airport 2017				
		Pavement Maintenance (RTA, RCF, Seal)	. 56	66	50	100
		Rwy 15/33 Rehabilitation (Seal Coat)	56	66		250
		Wildlife Fence and Signage	31	38	1000	

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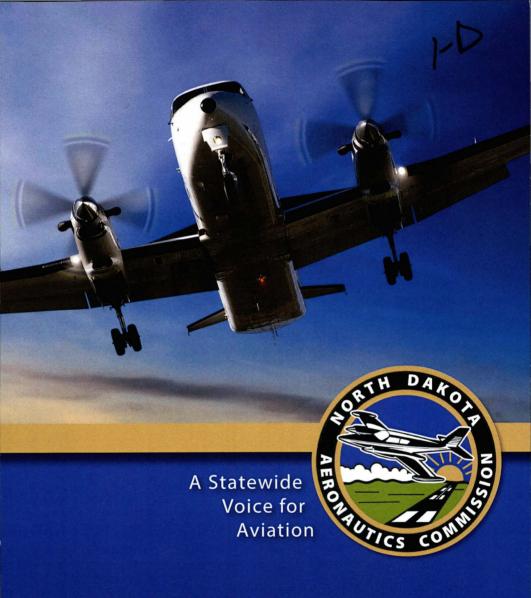
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Identified Infrastructure Projects (Thousands)

					rojects (mousunas)	
	AIRPORT	PROJECT	NDAC Priority	FAA Priority	1 to 5 Yrs.	6 to 10 Yrs.
		ALP/MP Update, AGIS/Exhibit A, Environmental and WHSV	32	55	300	
53	Washburn	Construct Apron Expansion (Phase II - EA 18)	47	50	100	
	5C8	Construct Fueling System (Design '20)	22	59	600	
		Pavement Maintenance (RTA, RCF, Seal)	56	66		800
		Construct Hangar Taxilane	45	46	1 1	500
		Construct Fence and Signage	31	64		1400
	2 5	Construct Access Road	33	20	y a	150
	- 1	Land Acquisition	41	42	700	
54	Watford City	Runway Realignment (Design '18)	46	48	18200	
	S25	Construct Fence and Signage	31	64		3200
		New Airport Beacon	41	42	50	
		Pave Access Road / Parking	33	21		400
_		Pavement Maintenance (RTA, RCF, Seal)	56	68	100	100
55	State PCI	1 1 1 2 2 2 2 2 2 2	51	56	1000	1000
56	State Av-Impact		51	64		600
57	State System Plan Update		51	64		600
			GA T	GA Totals:		163,190
			CA T	otals:	487,710	184,725
	Total Based AC:		CA & GA	CA & GA Totals:		347,915

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In addition the availability of State and Federal funding varies. Although listing a project in the CIP is the first step toward funding, that funding is not guaranteed for the projects listed.



Agency Mission

To serve the public by providing economic and technical assistance for the aviation community while ensuring the safe and cost effective advancement of aviation in North Dakota.

A STATEWIDE VOICE FOR AVIATION



2301 University Drive, Bldg. 1652-22 PO Box 5020, Bismarck, ND 58502-5020 (701) 328-9650 • Fmail: ndaero@nd.gov

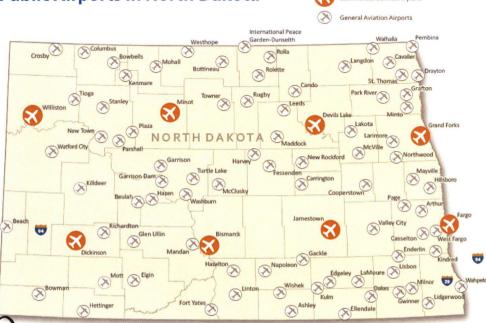
Agency History

The North Dakota Aeronautics Commission was established in 1947 by the State Legislature assigning responsibility for the state aviation functions. The Governor appoints the five members of the Aeronautics Commission to the board, for five year terms. The Commission staff is composed of the Director and four support staff. The office location is at the general aviation pilot terminal on the Bismarck Municipal Airport, Bismarck, ND.

Agency Purpose

The North Dakota Aeronautics Commission supports aviation activities in the state through communication with state and local organizations, Federal Aviation Administration (FAA), congressional offices, local airports and national aviation groups. The commission is largely funded through aviation fuel taxes, aircraft excise taxes, and aircraft registrations. This small and efficient state agency is able to leverage its financial efforts by teaming with the FAA, and staying involved with aviation activities across the state through a strong network of communication. The North Dakota Aeronautics Commission appreciates those that assist with airport operations, promote the aviation industry and utilize the airport system that the state has developed.

Public Airports in North Dakota



Agency Activities

ND Passport Program: a booklet stamping program that rewards pilots who fly to North Dakota's publicly-owned airports, visits North Dakota's aviation museums and attend FAA safety seminars.

Flight Training Assistance Program: a program that helps defray additional student pilot costs as a result of direct transportation costs incurred by commuting flight instructors.

Agricultural Operator Alert Map: a map of alert areas (towers, organic farms, ect.) can be found on the aeronautics commission website.

The International Aviation Art Contest: an annual event encouraging students ages six through 17 to express their creativity while celebrating aviation.

North Dakota Aviation Publications and Planning Documents: Aviation Economic Impact Studies, Aeronautical Charts, Airport Directories, State Aviation System Plan, Pavement Condition Index Study for ND Airports.

Regulatory Function: the office is responsible for administering North Dakota's laws in regards to registration of aircraft, aircraft dealers, aerial applicators, and the collection of aircraft excise tax.

Airport Intern Program: Encourages commercial service airports in ND to hire a management intern by providing a stipend to help defray the labor costs.

Aviation Education Grant Funding: The aeronautics commission provides grant funding for aviation education programs. Applications are accepted at any time from aviation enthusiasts, airports, or aviation organizations.

Airport Grant Funding: The aeronautics commission disperses approximately \$2.5 million annually to airports across the state for airport improvement projects. These funds are derived from aviation fuel taxes, aircraft excise taxes, and aircraft registrations.

Airport Inspections & Chart Supplement Updates: Each public airport is inspected at least once every three years and safety recommendations are made at the time of each inspection. North Dakota airport information that is used in the FAA Chart Supplement is also updated by the aeronautics commission staff.

Aviation Facts about North Dakota

- On and off-airport aviation related activity in North Dakota creates 32,200 jobs.
- \$1.6 billion in economic output activity is created each year by North Dakota Airports.
- Approximately 4.5 million acres of crops are sprayed annually by aerial applicators.
- More than 2.4 million airline passengers traveled through North Dakota's commercial airports in 2015.
- Approximately 3,600 people hold FAA pilot certificates in North Dakota
- Approximately 2,000 aircraft are registered with the state of North Dakota.

North Dakota Aeronautics Commission Staff Kyle Wanner – Director
Gaye Niemiller – Administrative Officer
Sheila Doll – Licensing Specialist
Jared Wingo – Airport Planner
Benjamin West – Airport Planner
Mike McHugh – Aviation Education Coordinator

ND Aeronautics Commission Members



Cindy Schreiber-Beck, Chair, Wahpeton

Currently Cindy serves as the Executive Director of the North Dakota Agricultural Aviation Association (NDAAA), is the owner of Tri-State Aviation, an FBO with a concentration on WWII aircraft restoration, and manages the Wahpeton Harry Stern Airport. She is active in the local business community and has served on the Commission since 1997.



Dr. Kim Kenville, Vice-Chair, Grand Forks

Kim began teaching for the University of North Dakota's John D. Odegard School of Aerospace Sciences in the fall of 1999 where she currently teaches airport management. Since 2008, Kim has been the director of the graduate program for the Department of Aviation and holds the rank of full professor. Dr. Kenville received her Ph.D. in 2005 from Capella University in Organization and Management. Prior to returning to UND, Kim worked in airport operations for Detroit Metropolitan and Milwaukee County airports. She is a certified member

(C.M.) of the American Association of Airport Executives and holds a private pilot's license. Kim was appointed to the Aeronautics Commission in September of 2011.



Maurice E. Cook, Member, Bismarck

Maurice retired from active legal practice at the end of 2010. During his legal career he served as a State's Attorney, City Attorney, Airport Authority Attorney, Assistant Attorney General as General Counsel for the Bank of North Dakota, as a member and Chairman of the Board of Directors of Prairie Public Broadcasting, ND Civil Air Patrol Wing Commander and ten years as Civil Air Patrol's National Legal Officer. He served as Bond Counsel to numerous ND political subdivisions

and various agencies of the State of North Dakota in the issuance of municipal bonds for thirty years. He holds a multi engine instrument pilot's license and started flying in Hettinger, ND, in 1952. He has been a member of the ND Aeronautics Commission since 1999.



Jay B. Lindquist, Member, Hettinger

Jay is president of Air Dakota Flite, a full service, fixed base operator (FBO). J.B. has a strong aerial applicator background and has been crop spraying for 50 years. He has been a Certified Flight Instructor and has served as the Manager of the Adams County Municipal Airport, Hettinger, ND for 40 years. His other interests are in retail and farming. J.B. was inducted into the North Dakota Aviation Hall of Fame in 2012. He has been a member of the Commission since 1993.

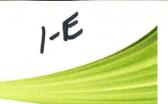


Warren A. Pietsch, Member, Minot

Warren is president of Pietsch Aircraft Restoration & Repair and Minot Aero Center at the Minot International Airport. Warren soloed at the age of 16 and has continued in aviation. He began chartering for the family business, ventured into airshows in 1981, and worked for ATA Airlines 1989-2008 serving as a captain for L-1011, B-727, B-737. Warren is a current and founding board member of the Dakota Territory Air Museum and the Chief pilot for the Texas

Flying Legends Museum, Houston TX. Holding a single & multi-engine ATP, SeaPlane rating, Commercial glider CFIG & CFIs and is an Aerobatic Evaluator for ICAS, Warren was appointed to the Commission in May of 2012.





Facts on the Economic Impact of Airports in North Dakota

Airport Economic Impacts

North Dakota's 8 commercial and 81 general aviation airports provide and support significant annual economic impacts. Airport related benefits come from activities associated with airport management, airport tenants, capital investment, and spending by visitors to North Dakota who arrive on commercial airlines and general aviation aircraft. Economic impacts for the 89 airports are measured using employment, annual payroll and annual economic output.

A 2015 study completed by the North Dakota Aeronautics Commission shows there are significant positive economic impacts associated with the state's public-use airports. As shown below, there has been a notable increase in impacts between 2010 and 2015:

Annual economic impacts from public-use airports have increased from \$1.06 billion to \$1.56 billion, a 47% increase.

Jobs supported by North Dakota airports have grown from **8,872** to **12,217**, a **38%** increase.

Annual state and local sales tax revenues from airport supported activities have increased from \$31.1 million to over \$60 million, a 93% increase.

The significant annual economic impact from North Dakota's 8 commercial and 81 general aviation airports comes from **five** centers of economic activity.

Airport Management Activities undertaken by airport employees to operate the airport on a daily basis.

Airport Tenants

Aviation related businesses that provide airport, aircraft, or customer services.

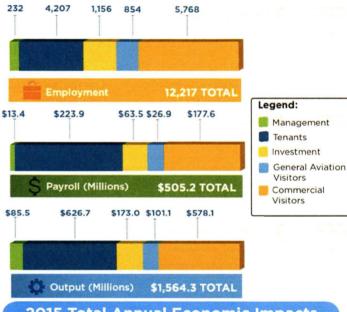
Capital Improvement Spending

Average annual investment made to maintain, improve, or expand an airport.

General Aviation Visitors Spending by general aviation visitors to North Dakota that support hotels, restaurants, and other visitor related activities.

Commercial Visitors Spending by commercial visitors to North Dakota that support hotels, restaurants, and other visitor related activities.

Economic impacts for North Dakota airports are measured using three indicators: employment, annual payroll, and annual economic output. For airport management and airport tenants, output is equal to their cost for purchasing goods and services to run the airport or their business. For capital investment, commercial visitors, and general aviation visitors, output is equal to average annual spending for airport improvements or annual spending by air visitors while they are in North Dakota.



2015 Total Annual Economic Impacts from Public-Use Airports

Jobs: 12,217
Payroll: \$505.2 million

Output: \$1.56 billion

Air Visitors to North Dakota

Since 2010, all air visitors to
North Dakota have increased
from **543,300** to **915,290**, an
increase of 68%. Business
travel to North Dakota has
increased exponentially, leading
to significant increases in visitor
spending for both visitors
arriving on general aviation
aircraft and on commercial
airline flights. Study surveys
show business travelers are
staying longer and spending more.





General Aviation Visitor Spending Up 93%







Other Economic Benefits from Aviation and Aerospace

Aside from economic benefits from North Dakota's public-use airports, there are other off-airport aviation and aerospace activities in North Dakota that provide additional economic benefits. These include benefits from:

- Grand Forks Air Force Base
- Minot Air Force Base
- Off-Airport Aviation and Aerospace Businesses (including aerial applicators)
- Jobs with Improved Efficiency from Aviation

When airport, military, and off-airport aerospace and aviation activities in North Dakota are combined, they provide the annual economic impact shown to the right. Included in the aviation supported jobs are over 100 aviation and aerospace related jobs at the University of North Dakota; these jobs are in addition to University jobs located at Grand Forks International Airport.



TOTAL FOR ALL AIRPORT / AVIATION / AEROSPACE IMPACTS

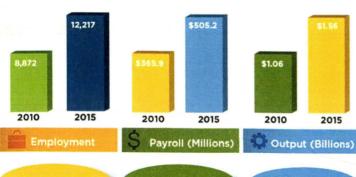
Total Employment: 32,213

Total
Payroll:
\$1.44 billion

Total
Output:
\$3.66 billion

Increasing Economic Benefits

Economic impacts for North Dakota's airports were previously estimated in 2010. Information presented here shows how economic impacts from the commercial and general aviation airports in North Dakota have increased over the past five years.



38% INCREASE

47% INCREASE

The North Dakota Statewide Economic Impact Study shows that when all airport, aviation, military, and aerospace activities in North Dakota are considered:

- 32,200 jobs for all airport/aviation/aerospace related activities account for an estimated 8% of North Dakota's total employment which is estimated at 413,000.
- The \$3.7 billion in total annual output for all airport/ aviation/aerospace related activities accounts for an estimated 7% of North Dakota's Real Gross State Product estimated at \$48.2 billion.







STATEWIDE ECONOMIC IMPACT OF AVIATION IN NORTH DAKOTA



2015
Executive Summary



INTRODUCTION

North Dakota's economy has recently undergone significant growth, driven primarily by energy exploration, production, and transportation. Airports in North Dakota are essential to supporting the state's economy. The state's economic growth has resulted in increased activity at many North Dakota airports. This increased activity has resulted in the growth of economic benefits that airports provide to the communities they serve.

North Dakota airports have responded to increased aviation activity generated by recent economic growth. More visitors flying for business are using commercial airports and are flying to the state on general aviation planes. Visitors to North Dakota are staying longer and spending more. Flights by larger and more demanding general aviation business jets have increased at many airports. General aviation planes connect North Dakota to business centers throughout the country.

Since statewide economic impacts were last measured in 2010:

- Annual economic benefits from public-use airports in North Dakota and the activities they support have increased 47%.
- Jobs supported by North Dakota airports have grown from 8,872 to 12,217, an increase of 3,345 jobs.
- Annual state and local sales tax revenues for airports and airport supported activities have increased from \$31.1 million to over \$60 million.
- Visitors coming to North Dakota each year on general aviation aircraft or commercial airline flights have grown from 545,300 to 915,290.





Airports Have Expanded Existing Facilities

Minot International is constructing a new passenger terminal.

Passenger boardings have increased from 90,820 (2010) to 222,144 (2014), a 145% increase.

Airports Have Built New Facilities

Bowman recently constructed a new airport with a runway of 5,700 feet. This length enables larger business jets to reach the community.

Additional Aviation Businesses Have Been Attracted

Increased activity at the Tiago Municipal Airport attracted Tioga Aero Center in 2014. This aircraft service provider offers fuel, storage, maintenance, and ground transportation.

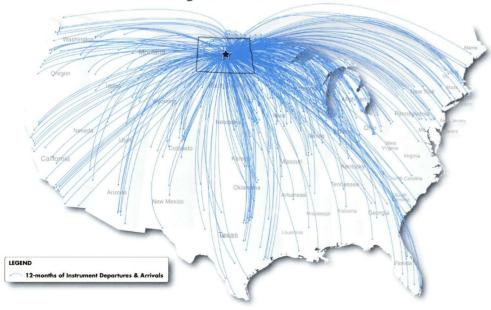


North Dakota Public-Use Airports



Business Connections

Direct Flights To and From North Dakota

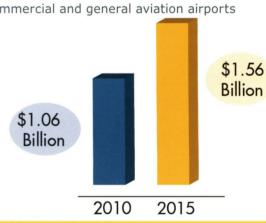


This report, authorized by the North Dakota Aeronautics Commission (NDAC), summarizes how growth at North Dakota's eight commercial service and 81 general aviation airports translates into higher annual economic impacts for the communities these airports serve and for the state. More detailed information on the study is available from the NDAC.

Change in Annual Airport Related Economic Impacts

When the economic impact of North Dakota's airport system was last measured in a study released in 2010, the total annual economic impact of commercial and general aviation airports was measured at

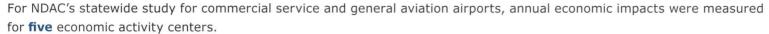
\$1.06 billion. Just five years later, the total annual economic impact for the commercial and general aviation airports has increased to \$1.56 billion—a 47% increase.



North Dakota airports connect the state to business centers throughout the U.S. This map shows recorded instrument flight rule (IFR) arrivals and departures to the state over the last 12 months—most of these flights were on general aviation aircraft. According to FAA data, non-stop flights represent only 3% of all aircraft arrivals and departures to North Dakota airports over the past 12 months. This map clearly shows the important role that airports play in providing the transportation infrastructure that has supported the state's recent economic growth.



SOURCES OF AIRPORT ECONOMIC IMPACTS



VISITORS



Economic Activity Centers

Airport Management	Activities undertaken by airport employees to operate the airport on a daily basis.
Airport Tenants	Aviation-related businesses that provide airport, aircraft, or customer services.
Capital Improvement Spending	Average annual investment made to maintain, improve, or expand an airport.
Commercial Visitor Spending General Aviation Visitor Spending	Spending by visitors to North Dakota who arrive by air that supports hotels, restaurants, and other visitor-related activities.

5 Sources of Economic Impacts

On-Airport

- 1 Airport Management
- 2 Aviation-Related Tenants / Businesses
- 3 Investment for Capital Improvements

Off-Airport

- 4 Visitors Arriving on Commercial Airlines
- 5 Visitors Arriving on General Aviation Aircraft



Measurements of Economic Impacts



For each of these five categories, annual economic impacts were measured for jobs, payroll, and output. While employment and payroll measures are easy to understand, output is more complex. Output for airport management and airport tenants is generally equal to the purchase of goods and services needed by these two groups to support their operations or to run their businesses.

Output for capital improvement investment is equal to the average annual amount actually spent by federal, state, local, and private contributors to maintain and improve the airports. The annual spending of visitors in North Dakota is equal to direct output in the visitor category.



- MANAGEMENT
- ► AIRPORT TENANTS





2015 TOTAL STATEWIDE ECONOMIC IMPACTS

NDAC's statewide economic impact study estimated annual economic impacts for each of the five activity centers. It is important to understand that impacts shown in this report represent a "snapshot in time," reflecting conditions at North Dakota airports when the study was prepared in the 2014/2015 time frame. While economic impacts from airport management, airport tenants, and visitor spending can change year-to-year, economic impacts from capital investment have a higher propensity to change between reporting periods.

Remaining portions of the summary provide more detail on economic impacts for each category and a general overview of the methodology used to complete the economic impact analysis. Other economic benefits associated with aviation and aerospace in North Dakota are also presented.

	TOTAL EMPLOYMENT	TOTAL PAYROLL	TOTAL OUTPUT
Total Airport Management	232	\$13.4 million	\$85.5 million
Total Airport Tenants	4,207	\$223.9 million	\$626.7 million
Total Capital Investments	1,156	\$63.5 million	\$173.0 million
Total General Aviation Visitors	854	\$26.9 million	\$101.1 million
Total Commercial Visitors	5,768	\$177.6 million	\$578.1 million
Total Statewide Annual Impacts	12,217	\$505.2 million	\$1.56 billion

Estimates Include Total Statewide Direct and Indirect Impacts







ECONOMIC IMPACT METHODOLOGY

Airport-related economic impacts measured in this study came from five sources: airport management, airport tenants, capital improvement spending, spending from visitors arriving on commercial airlines, and spending from visitors arriving on general aviation aircraft. For each of these five categories, economic impacts are estimated for jobs, annual payroll, and annual output.

For each impact category and each measurement, the process to estimate total economic impacts starts with estimating "direct" impacts. Once direct impacts for jobs, payroll, or output enter the North Dakota economy, other successive waves of economic impact occur. These additional impacts are "indirect impacts" but are sometimes more commonly referred to as "multiplier" impacts. Together, direct and indirect impacts equal total annual economic impact for individual airports and the state. The following pages discuss economic impacts for the five activity centers.



Indirect Impact Example

Sam is employed by the airport. This week when Sam receives his pay from the airport, he takes his "direct" salary and pays a baby sitter, takes the family dog to the vet and pays for their services, and pays a teacher for his daughter's piano lesson. Direct payroll that started at the airport has now entered the economy of the community where Sam lives. As this example shows, Sam's "direct" airport job and pay help to support other "indirect" jobs, payroll, and output for the babysitter, the vet, and the piano teacher. In this study, the IMPLAN model*, with data sets specific to North Dakota, was used to estimate all indirect economic impacts in the employment, payroll, and output categories.

* Information on the IMPLAN model is available in the study's technical report

Impact Measures

For this report, economic impacts are expressed in terms of jobs, payroll, and total annual economic output. Each of these measures include the direct, indirect, and total impacts.









ANNUAL ECONOMIC IMPACTS FROM AIRPORT MANAGEMENT

Throughout North Dakota people are employed to manage, operate, and maintain the eight large commercial service airports and the 81 general aviation airports. These employees can be full-time, part-time, or seasonal. Interviews conducted for this study show that most often employees in the airport management function are located at the airport, but sometimes the airport management employees work in off-airport locations.

To translate part-time and seasonal jobs into full-time positions, each airport furnished information on the number of hours part-time employees work specifically to support the airport. This information provides a more accurate means to estimate how the part-time and seasonal workforce contributes to the full-time employment at each airport.

As part of this study, extensive outreach with airport managers throughout North Dakota was completed to gather information on direct employment, payroll, and annual purchases for goods and services (output) needed to run each airport. Many times, airport managers were interviewed in person, especially at the commercial service airports and larger general aviation airports. Airport managers also played an important role in this study, verifying direct economic impacts for their airport for all five impact categories. Airport Management statewide annual economic impacts, which include the direct and indirect impacts for all study airports, are shown in the accompanying table.

Total Annual Statewide Economic Impact Airport Management

EMPLOYMENT		PA	ROLL	OUTPUT		
• Direct	154	• Direct	\$9.6 million	• Direct	\$56.2 million	
• Indirect	78	• Indirect	\$3.8 million	• Indirect	\$29.3 million	
• Total	232	• Total	\$13.4 million	• Total	\$85.5 million	

Airport Management 232 jobs \$ Annual Payroll \$13.4 million Annual Output \$85.5 million





ANNUAL ECONOMIC IMPACTS FROM AIRPORT TENANTS

There are many types of aviation-related businesses that operate at study airports. These businesses provide various types of aviation-related services to support aircraft and airport customers. Examples of airport tenants include, but are not limited to: Fixed Based Operators (FBOs); aircraft maintenance providers; aircraft charter, rental, and sales companies; air ambulance operators; aerial applicators; military units located at civilian airports; air cargo companies; ground transportation providers; flight schools; airlines; and corporate flight departments. Airport tenants who are not aviation-related are not included in this analysis.

For this study, all airport managers provided contact information for their aviation-related tenants. All tenants were contacted directly to obtain information on their full-time, part-time, and seasonal employment; annual payroll; and annual operating expenses (output). Tenants at North Dakota's airports were the primary source of direct impacts reported in this category. Indirect impacts (multiplier) for all airport tenant employment, payroll, and output were estimated using the IMPLAN model. Total statewide annual economic impacts for airport tenants are shown below.

Airport Tenants 4,207 jobs \$ Annual Payroll \$223.9 million Annual Output \$626.7 million

Total Annual Statewide Economic Impact Airport Tenants

EMPLOYMENT		PA	ROLL	OUTPUT		
• Direct	2,738	• Direct	\$150.5 million	• Direct	\$408.3 millio	
• Indirect	1,469	• Indirect	\$73.4 million	• Indirect	\$218.4 million	
• Total	4,207	• Total	\$223.9 million	• Total	\$626.7 millio	
		 		I		

Source: North Dakota Airport Tenants







ANNUAL ECONOMIC IMPACTS FROM CAPITAL INVESTMENT

Each year, federal, state, local, and private funds are invested to maintain, improve, and expand public-use airports in North Dakota. For each of the last three years, this combined investment has reach almost \$100 million per year. Recently, the North Dakota Legislature, FAA, and some local communities responded to growing airport infrastructure needs by allocating additional funds to help North Dakota's airports keep pace with the state's surging economy. Direct output in the capital investment category supports additional jobs and the payroll associated with those jobs, which were estimated with IMPLAN.

Economic impacts related to capital investment only exist when actual spending is taking place. Once a project is finished, employment, payroll, and output impacts in this category cease. When capital investment at an airport changes significantly, economic impacts stemming from this activity center also change.

To estimate economic impacts related to capital investment, a three-year average for annual capital investment at each study airport was developed. Information for airport-specific capital investment was provided by NDAC, FAA, study airports, and tenants at various airports. For this economic activity center, annual capital investment for each study airport is equal to its direct annual output. Based on estimated average annual investment, IMPLAN provides ratios which are used to estimate "direct" jobs and payroll supported by direct output, in this case average annual capital investment. IMPLAN also estimates "indirect" impacts associated with each capital investment impact measure: employment, payroll, and output provided by NDAC, FAA, airports, and tenants.

Total Annual Statewide Economic Impact Capital Investments

EMPLOYMENT		PA	ROLL	OL.	OUTPUT	
• Direct	534	Direct	\$39.8 million	• Direct	\$99.4 million	
• Indirect	622	• Indirect	\$23.7 million	• Indirect	\$73.6 million	
• Total	1,156	• Total	\$63.5 million	• Total	\$173.0 million	

Average Annual Capital Investment







ANNUAL ECONOMIC IMPACTS FROM COMMERCIAL AND GENERAL AVIATION VISITOR SPENDING

North Dakota's economic growth has resulted in more visitors, particularly business-related visitors, arriving to the state by air. These visitors are staying longer and spending more. Estimates of visitors arriving in North Dakota on a commercial airline were developed using each airport's annual enplaned passengers and information from USDOT on the portion of these enplanements that are residents versus visitors.

The process to develop estimates of visitors arriving on general aviation aircraft was much more complex and involved several rounds of input from study airports and NDAC staff. Estimates developed in this study of visitors arriving on general aviation aircraft were individualized for each commercial and general aviation airport.

According to airport and USDOT information, an estimated 533,112 visitors arrive annually in North Dakota on commercial airline flights, and 382,177 visitors arrive on general aviation aircraft. Once in North Dakota, visitors have expenditures for items such as lodging, food, entertainment, retail, and ground transportation services. To capture specific visitor spending patterns on a per trip basis, visitors completed more than 4,000 surveys. These surveys were completed with assistance from airports throughout North Dakota. Using survey information, airport-specific estimates for spending per visitor trip were developed. It is important to note that a high percentage of visitors who come to North Dakota on general aviation aircraft do not spend the night. Some business visitors specifically use general aviation aircraft for travel so that they can shorten the length of their trip.

Similar to capital investment, annual "direct output" for the visitor category is equal to annual visitor spending. Once direct visitor spending was estimated, IMPLAN was used to estimate the number of direct jobs and payroll that direct visitor spending supports. The following table shows estimated annual economic impacts for the general aviation visitor category. It is important to note that visitors traveling to North Dakota on general aviation aircraft arrive at both commercial and general aviation airports.

General Aviation Visitor Spending **EMPLOYMENT PAYROLL OUTPUT** 619 • Direct \$16.3 million Direct Direct \$64.0 million Indirect 235 \$10.5 million Indirect Indirect \$37.1 million • Total 854 Total \$26.9 million Total \$101.1 million Source: Airport Managers, Surveys, and IMPLAN





North Dakota's economic growth has attracted a growing number of visitors. These visitors arrive on commercial airline flights and on general aviation aircraft.

Not only are more visitors coming to North Dakota—these visitors are staying longer and spending more. The Annual and Average Spending Per Trip graphic shows, on a per trip basis, the average spending of visitors arriving on general aviation aircraft and on commercial airlines. It also shows how spending on a per trip basis for both types of visitors has increased since 2010.



Commercial Visitor Spending

EMPLOYMENT		PA	ROLL	OUTPUT		
• Direct	4,151	Direct	\$105.4 million	• Direct	\$360.9 million	
• Indirect	1,617	• Indirect	\$72.2 million	• Indirect	\$21 <i>7</i> .2 million	
• Total	5,768	• Total	\$1 <i>77</i> .6 million	• Total	\$578.1 million	

Source: Surveys and IMPLAN

Spending per Commercial Visitor Trip

	ANNUAL COMMERCIAL VISITORS	TOTAL VISITOR SPENDING	SPENDING PER TRIP
Bismarck	110,342	\$68.8 million	\$624
Devils Lake	1,890	\$0.70 million	\$374
Dickinson	25,891	\$15.80 million	\$612
Fargo	179,539	\$96.10 million	\$535
Grand Forks	62,824	\$35.10 million	\$558
Jamestown	3,542	\$1.40 million	\$400
Minot	95,669	\$80.90 million	\$846
Williston	53,415	\$61.90 million	\$1,160

Residents and visitors comprise the annual passenger boardings; this table shows only visitor related boardings for each commercial airport.

Increase in North Dakota Air Visitors

	2010	2015	<u>Increase</u>
General Aviation Visitors	222,318	382,177	72%
Commercial Visitors	322,983	533,112	65%

Annual and Average Spending Per Trip	C
General Aviation Visitors Spending	
\$17 million total annual spending \$76 average spending per trip	
\$101 million total annual spending \$167 average spending per trip	
Commerical Aviation Visitors Spending	
\$105 million total annual spending \$325 average spending per trip	
\$361 million total annual spend \$677 average spending per trip	ing





INDIVIDUAL AIRPORT ECONOMIC IMPACTS

This table presents current total annual economic impacts for each study airport. These estimates reflect total impacts, both direct and indirect, for airport management, airport tenants, capital investment, and all visitor-related spending. More information on impacts for individual airports is available in the study's technical report.

For the employment category, the table also shows how direct and indirect jobs contribute to total employment for each airport. <u>It is important to remember that direct jobs presented here come from as many as five activity centers. Indirect employment shown for each airport was estimated using the IMPLAN model.</u> Together, direct and indirect impacts represent the total employment impacts reported for each airport.

		EA	EMPLOYMENT		TOTAL	TOTAL
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Bismarck	Bismarck Municipal	1,301	825	2,126	\$86,510,312	\$279,744,887
Devils Lake	Devils Lake Regional	59	30	89	\$4,013,851	\$11,811,488
Dickinson	Dickinson-Theodore Roosevelt Regional	314	161	475	\$20,322,935	\$76,618,095
Fargo	Hector International	2,391	962	3,353	\$142,166,337	\$387,465,584
Grand Forks	Grand Forks International	1,147	522	1,669	\$73,622,396	\$199,368,171
Jamestown	Jamestown Regional	65	55	120	\$4,797,458	\$24,425,703
Minot	Minot International	1,357	628	1,985	\$74,678,827	\$254,598,258
Williston	Sloulin Field International	1,004	470	1,474	\$57,256,315	\$209,047,988
Total Comme	ercial Airports Impacts	7,638	3,653	11,291	\$463,368,431	\$1,443,080,174
Arthur	Arthur	0	0	0	\$0	\$23,250
Ashley	Ashley Municipal	13	4	17	\$806,986	\$2,382,031
Beach	Beach	6	7	13	\$283,851	\$656,324
Beulah	Beulah	10	3	13	\$625,781	\$1,708,123
Bottineau	Bottineau Municipal	7	3	10	\$522,677	\$1,546,789
Bowbells	Bowbells Municipal	0	0	0	\$0	\$8,200
Bowman	Bowman Regional	40	44	84	\$4,546,230	\$11,879,439
Cando	Cando Municipal	6	8	14	\$448,730	\$1,821,461
Carrington	Carrington Municipal	9	5	14	\$471,458	\$1,586,478
Casselton	Casselton Robert Miller Regional	32	23	55	\$2,192,020	\$5,610,341
Cavalier	Cavalier Municipal	10	4	14	\$573,265	\$1,933,077
Columbus	Columbus Municipal	0	0	0	\$0	\$3,000
Cooperstown	Cooperstown Municipal	2	1	3	\$129,618	\$431,535

			ADI OVALE			
all The	AUDDODT NAME		MPLOYMEI		TOTAL	TOTAL
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Crosby	Crosby Municipal	6	7	13	\$452,141	\$1,473,286
Drayton	Drayton Municipal	1	0	1	\$64,809	\$185,378
Dunseith	International Peace Garden	<1	0	<1	\$0	\$69,753
Edgeley	Edgeley Municipal	5	4	9	\$408,353	\$1,261,884
Elgin	Elgin Municipal	0	0	0	\$0	\$3,625
Ellendale	Ellendale Municipal	4	5	9	\$246,800	\$1,031,194
Enderlin	Sky Haven	0	0	0	\$0	\$72,892
Fessenden	Fessenden-Streibel Municipal	5	2	7	\$336,038	\$874,424
Fort Yates	Standing Rock	<1	0	<1	\$0	\$7,133
Gackle	Gackle Municipal	<1	0	<1	\$0	\$7,686
Garrison	Garrison Municipal	4	2	6	\$302,006	\$819,976
Glen Ullin	Glen Ullin Regional	1	1	2	\$123,212	\$353,985
Grafton	Hutson Field	12	7	19	\$846,433	\$2,337,041
Gwinner	Gwinner-Roger Melroe Field	13	14	27	\$1,168,122	\$3,701,214
Harvey	Harvey Municipal	4	1	5	\$236,927	\$702,922
Hazelton	Hazelton Municipal	0	0	0	\$0	\$23,250
Hazen	Mercer County Regional	3	1	4	\$145,456	\$557,298
Hettinger	Hettinger Municipal	13	7	20	\$955,530	\$2,693,237
Hillsboro	Hillsboro Regional	18	6	24	\$887,146	\$2,922,895
Kenmare	Kenmare Municipal	17	9	26	\$1,301,723	\$3,034,219
Killdeer	Dunn County Airport - Weydahl Field	11	13	24	\$1,564,863	\$3,065,201
Kindred	Robert Odegaard Field	7	2	9	\$340,767	\$3,626,376
Kulm	Kulm Municipal	2	1	3	\$150,192	\$270,422



	ASSESSMENT AND S	EMPLOYMENT		TOTAL	TOTAL	
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Lakota	Lakota Municipal	0	0	0	\$0	\$131,082
LaMoure	LaMoure Rott Municipal	2	1	3	\$129,618	\$361,906
Langdon	Robertson Field	5	4	9	\$289,506	\$1,053,010
Larimore	Larimore Municipal	9	3	12	\$507,389	\$1,886,989
Leeds	Leeds Municipal	1	1	2	\$70,700	\$225,343
Lidgerwood	Lidgerwood Municipal	0	0	0	\$0	\$9,443
Linton	Linton Municipal	9	3	12	\$508,504	\$1,589,613
Lisbon	Lisbon Municipal	3	2	5	\$311,872	\$699,239
Maddock	Maddock Municipal	7	5	12	\$1,230,638	\$2,012,105
Mandan	Mandan Municipal	38	29	67	\$3,149,158	\$8,950,629
Mayville	Mayville Municipal	11	9	20	\$778,094	\$2,436,563
McClusky	McClusky Municipal	<1	0	<1	\$0	\$7,117
McVille	McVille Municipal	0	0	0	\$0	\$23,450
Milnor	Milnor Municipal	0	0	0	\$0	\$38,448
Minto	Minto Municipal	5	1	6	\$301,736	\$806,069
Mohall	Mohall Municipal	12	7	19	\$631,793	\$2,180,976
Mott	Mott Municipal	3	1	4	\$195,633	\$493,806
Napoleon	Napoleon Municipal	2	1	3	\$129,618	\$372,540
New Rockford	Tomlinson Field	1	0	1	\$64,809	\$217,776
New Town	New Town Municipal	10	12	22	\$1,315,808	\$3,217,102
Northwood	Northwood Municipal- Vince Field	5	1	6	\$254,467	\$877,356
Oakes	Oakes Municipal	9	10	19	\$637,092	\$2,337,630
Page	Page Regional	9	4	13	\$498,619	\$2,085,675
Park River	Park River-WC Skjerven Field	6	2	8	\$388,854	\$1,108,549
Parshall	Parshall-Hankins	4	3	7	\$440,805	\$1,106,385
Pembina	Pembina Municipal	7	3	10	\$405,928	\$1,400,955
Plaza	Trulson Field	0	0	0	\$0	\$3,000
Richardton	Richardton	0	0	0	\$0	\$6,033
Riverdale	Garrison Dam Recreational	<1	0	<1	\$1,800	\$17,369
Rolette	Rolette	2	3	5	\$213,471	\$649,140

		EMPLOYMENT		TOTAL	TOTAL	
CITY	AIRPORT NAME	Direct	Indirect	Total	PAYROLL	OUTPUT
Rolla	Rolla Municipal	12	9	21	\$866,159	\$2,680,203
Rugby	Rugby Municipal	5	4	9	\$380,677	\$1,040,119
St. Thomas	St. Thomas Municipal	2	1	3	\$129,618	\$357,925
Stanley	Stanley Municipal	11	9	20	\$928,496	\$2,442,100
Tioga	Tioga Municipal	23	11	34	\$1,492,413	\$3,878,182
Towner	Towner Municipal	0	0	0	\$0	\$24,050
Turtle Lake	Turtle Lake Municipal	0	0	0	\$0	\$51,241
Valley City	Barnes County Municipal	14	8	22	\$901,786	\$2,803,132
Wahpeton	Harry Stern	25	11	36	\$1,446,088	\$4,397,025
Walhalla	Walhalla Municipal	7	5	12	\$580,058	\$1,559,947
Washburn	Washburn Municipal	0	0	0	\$0	\$138,429
Watford City	Watford City Municipal	28	16	44	\$2,063,056	\$5,205,805
West Fargo	West Fargo Municipal	8	4	12	\$374,063	\$1,262,928
Westhope	Westhope Municipal	2	1	3	\$129,618	\$355,215
Wishek	Wishek Municipal	0	0	0	\$0	\$85,259
Total General Aviation Airports Impacts		558	368	926	\$41,879,078	\$121,272,197
Total All Airports Impacts		8,196	4,021	12,217	\$505,247,509	\$1,564,352,371

Source: Airport Managers, Tenants, Surveys, NDAC, USDOT, IMPLAN, Dun & Bradstreet, and Manta









OTHER AVIATION / AEROSPACE ECONOMIC AND BENEFITS OF NORTH DAKOTA AIRPORTS

Aside from the 12,217 jobs, the \$505.2 million in annual payroll, and the \$1.56 billion in annual output, there are many, yet sometimes less visible activities that airports in North Dakota support. These activities include healthcare, emergency services, energy inspections, environmental patrols, research, and other vital services that help to improve the health, welfare, and safety of residents and business throughout the state. Having a general understanding of these additional benefits helps provide a better understanding of all of the different ways North Dakota airports support the communities they serve.



- **Healthcare** This study identified approximately 40 clinics and/or hospitals in North Dakota that rely on public-use airports. Several have doctors using general aviation aircraft to reach patients in small communities throughout the state. Small hospitals and clinics do not have a local patient base sufficient to support specialty doctors—flying doctors in North Dakota fill this void. Airports in North Dakota play an important role in providing both routine and advanced healthcare services.
- Emergency Services Fixed-wing aircraft and helicopters use North Dakota airports to transport North Dakota residents requiring time-sensitive care to larger medical facilities, both within and beyond the state. These lifesaving services cannot be assigned a dollar value, and essentially any airport in the state is a candidate for supporting emergency medical services.
- Education The University of North Dakota (UND) is home to one of the nation's leading aviation and aerospace programs, the John D. Odegard School of Aerospace Sciences. UND is educating tomorrow's airport managers, pilots, and air traffic controllers. Other colleges and universities in North Dakota also report that airports are essential to their ability to expand their market areas for attracting students, both domestic and international. Air access is import to helping North Dakota's centers of higher learning attract and retain the most qualified teaching and research staff.
- Research North Dakota was successful in being one of six states selected by the FAA as a test site for Unmanned Aerial Systems (UAS) research. There are many potential practical private and public applications for UAS technology. Grand Sky, located in Grand Forks, is a multi-faceted center for advancing UAS applications and technology. Companies in North Dakota are leading the way in exploring uses for this emerging technology. Some estimates indicate that as many as 3,000 new jobs could be supported by UAS in North Dakota by 2025.
- Taxes Activities at airports and activities supported by airports make significant contributions to state and local tax revenues. A significant portion of these tax revenues are collected as a result of spending by visitors who come to North Dakota on general aviation aircraft and scheduled commercial aircraft. The NDAC study estimates that, on an annual basis, approximately \$64 million in local and state tax revenues are generated by the 89 study airports and the activities they support.



There are other non-airport-specific aviation and aerospace activities in North Dakota that make direct contributions to the state's economy. A listing of these additional activities is provided below, and more information on each these additional economic contributors is provided in the study's technical report:

- Activities associated with the mission of the 319th Air Wing Base in Grand Forks.
- Jobs, payroll, and output associated with the operation and mission of Minot Air Force Base.
- Aviation and aerospace companies, including aerial applicators, doing business in North Dakota, but not located at a study airport.
- North Dakota companies with employees whose jobs have improved efficiency from using commercial and general aviation and air cargo services.

The statewide total annual economic impacts of these activities, as identified or estimated in this NDAC study, are shown in the table below. It is important to re-state that these benefits are in addition to those estimated for the 89 study airports.

North Dakota Jobs Supported by or Benefiting from Aviation, Airports, or Aerospace



Aviation-Related Jobs in North Dakota: 32,213

The statewide economic impact study estimated economic impacts for 89 public airports, Grand Forks and Minot AFBs, off-airport aviation/ aerospace businesses in the state, and other businesses in the state with employees who gain efficiency by using aviation. When combined, all sources support approximately 32,200 direct and indirect jobs in North Dakota. These jobs account for almost 8% of North Dakota's total employment which was estimated at 413,000 in 2014.

Economic Impacts from Airports, Aviation, and Aerospace in North Dakota

	TOTAL EMPLOYMENT	TOTAL PAYROLL	TOTAL OUTPUT
Grand Forks AFB	2,565	\$105.2 million	\$203.7 million
Minot AFB	7,283	\$321 million	\$513.5 million
Off-Airport Aviation / Aerospace Businesses	4,635	\$232.7 million	\$512.6 million
Aviation Supported Jobs	5,513	\$271.8 million	\$882.7 million
Sub-Total	19,996	\$930.7 million	\$2.1 billion
Total for 89 Study Airports	12,217	\$505.2 million	\$1.56 billion
Total for All Airport / Aviation / Aerospace Impact	s 32,213	\$1.44 billion	\$3.66 billion

As this report clearly shows, aviation, aerospace, and North Dakota's system of public-use airports are essential underpinnings to the present and future success of North Dakota's economy.

When combined, all aviation- and aerospace-related contributors discussed in this study (airports, the military, aviation/aerospace companies, and aviation-reliant businesses) provide annual economic benefits to North Dakota that approach \$3.7 billion. The 2014 Real Gross State Product of North Dakota is estimated at \$48.2 billion. All airport, aviation, and aerospace activities in North Dakota account for 7.6% of the state's total annual economic activity.



North Dakota Aeronautics Commission 701.328.9650 P.O. Box 5020 Bismarck, ND 58502

http://www.aero.nd.gov

Input for this study was obtained from: airlines. passengers, North Dakota businesses, airport representatives, the North Dakota Aeronautics Commission (NDAC), the Federal Aviation Administration (FAA), and other private and government sources. Analysis completed in the study was based on data collected in 2014 and 2015, with the final report released November 2015. Preparation of this report was financed in part through a planning grant from the FAA as approved under the Airport and Airway Improvement Act of 1982. The contents of this report reflect the views of the Consultant, which is responsible for the facts and the accuracy of the data depicted herein, and do not necessarily reflect the official views or policy of the FAA. Acceptance of this report by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein, nor does it indicate that the proposed development is environmentally acceptable in accordance with applicable public laws.

NOITAIVL

Increasing Economic Impacts for North Dakota Airports

One objective the NDAC had for the 2015 update to their Statewide Aviation Economic Impact Study was to determine how economic contributions from the 89 public-use airports have changed since it was measured in 2010. The graphic below provides a comparison of findings from the 2010 and 2015 studies. The comparison shows direct, indirect, and total statewide economic impacts for employment, payroll, and output. The 2015 study took a conservative approach to estimate indirect impacts; as a result, 2015 indirect impacts represent a smaller percentage of total impacts than they did in the 2010 study.

As shown, direct statewide economic impacts for the 89 public-use airports increased between 2010 and 2015 for employment, payroll, and output. Increases in direct impacts contributed to the overall increase for total impacts for all three categories as shown here.







2015 PAVEMENT CONDITION INDEX (PCI) STUDY EXECUTIVE SUMMARY www.aero.nd.gov



NORTH DAKOTA

AERONAUTICS COMMISSION

A STATEWIDE VOICE FOR AVIATION





NORTH DAKOTA. **AERONAUTICS COMMISSION**

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This document was prepared under the guidance of

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Prepared by:



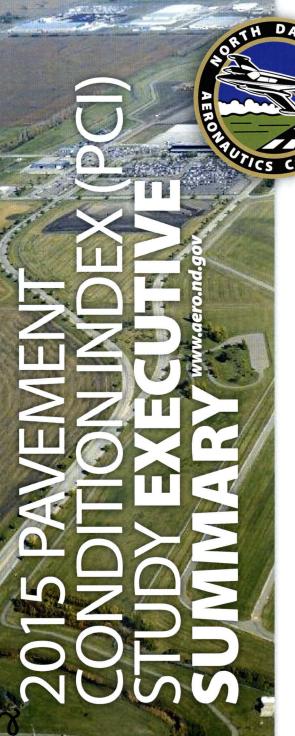
87th Street N Fargo, North Dakota 58102 701-566-6450 www.meadhunt.com



115 W Main Street, Suite 400 Urbana, Illinois 61801 217-398-3977 www.appliedpavement.com



10025 Valley View Road, Suite 140 Eden Prairie, Minnesota 55344 952-646-0236 www.evs-eng.com



Overview



The Airport Pavement Management System (APMS) was developed by the Federal Aviation Administration (FAA) and is intended to provide a consistent and systematic approach to identifying pavement that is in need of maintenance or rehabilitation. The North Dakota Aeronautics Commission (NDAC) developed a customized APMS in accordance with FAA requirements.

An APMS evaluates both the current condition of the pavement as well as predicts a future condition based on the Pavement Condition Index (PCI). This in turn allows the individual airports, the NDAC and the FAA to monitor the condition of the airport pavements and budget for required maintenance to avoid excessive deterioration. The timing of this maintenance or rehabilitation is vital as airport pavement conditions play a crucial role in ensuring the safety of all airport users.

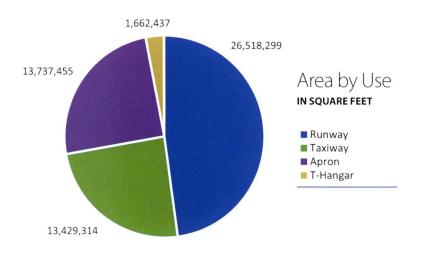
This system is updated every three years to accurately reflect current pavement conditions across the state's airports. In 2012, the APMS was updated to an electronic format to allow the data to be readily available to the airports, the FAA and the NDAC.

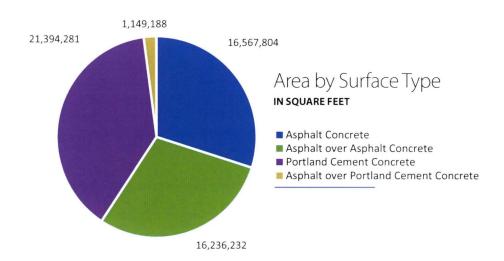
In 2015, Mead & Hunt along with Applied Pavement Technology and EVS conducted the update to the APMS. During the 2015 update, record information collected in the previous three-year cycle has been added to the database. Pavement inspections have been completed, and additional airports have been added that were not part of the previous study. Functionality changes also have been made to the website itself. The findings and recommendations of the APMS update are included in this report. Full results can be found online on the NDAC website, www.aero.nd.gov.

Pavement Inventory

In 2015, a total of 71 airports were assessed for the current project. Of these, 52 were part of the National Plan of Integrated Airport Systems (NPIAS) and 19 were non-NPIAS. NPIAS airports qualify for federal funding. Non-NPIAS airports do not qualify for federal funding and must be funded solely by state and local contributions. Therefore, the FAA only provided funding for pavement inspections and reports for the NPIAS airports as part of this study. NPIAS airports inspected included 7 commercial service airports and 45 general aviation airports. Williston was not inspected as part of the 2015 study due to future relocation of the existing airport. However, Williston's 2012 pavement inventory data was used in the 2015 data analysis and is included as part of the 2015 results. Pavement inventory data includes area, age and condition. Projected costs for Williston were excluded from the funding assessment needs. A PCI of 100 was assumed for all newly constructed pavement or pavement programmed to be reconstructed in the next year. The map on page 5 identifies all of the airports in North Dakota that were included as part of the 2015 APMS update.

These airports represent 55.3 million square feet of pavement – 26.5 million square feet of runway pavement, 13.4 million square feet of taxiway pavement, 13.7 million square feet of apron pavement, and 1.7 million square feet of T-hangar pavement, comprised of both concrete and asphalt, as shown in the *Area by Use* and *Area by Surface Type* pie charts below. Pavement at the airports in the state have an average age of 17 years for commercial service airports and 10 years for general aviation airports. Throughout the years, the airports have performed preventive maintenance and carried out a series of rehabilitation/reconstruction projects to sustain and extend the pavement life. The charts shown on the next page, *Pavement Area by Use* and *Area-Weighted Average Age by Use*, summarize the total square footage of pavements found in the state and the average age of those pavements based on use.

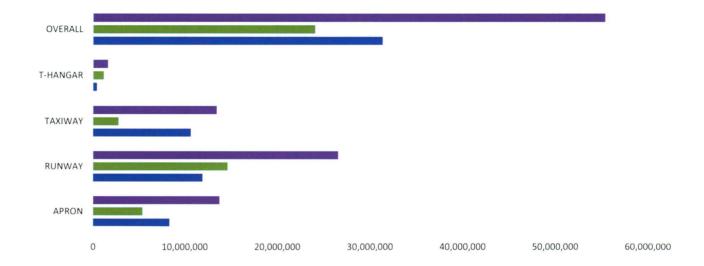




Pavement Area by Use

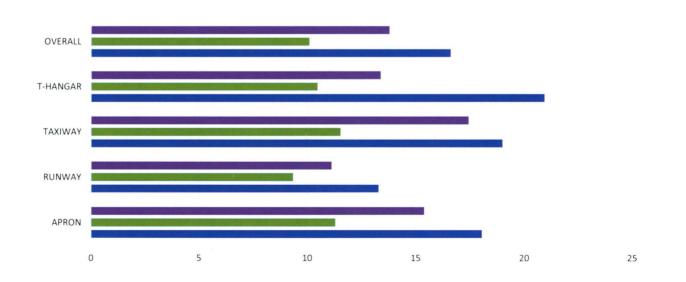
IN SQUARE FEET

- Overall State System
- General Aviation
- Commercial Service



Area-Weighted Average Age by Use IN YEARS

- Overall State System
- General Aviation
- Commercial Service



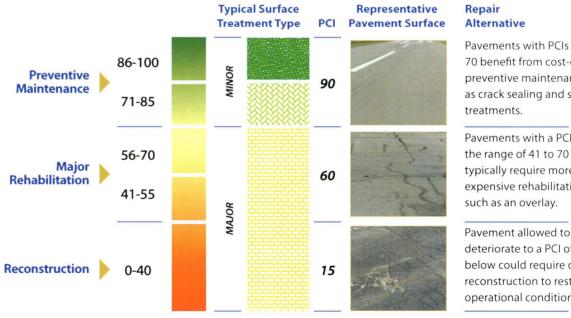
Pavement Evaluation

Pavement Evaluation Procedure

A PCI survey was conducted in accordance with the procedures outlined in American Society for Testing and Materials (ASTM) Standard D5340, Standard Test Method for Airport Pavement Condition Index Surveys and the FAA's Advisory Circular 150/5380-6B, Guidelines and Procedures for Maintenance of Airport Pavements. A PCI survey consists of dividing pavement into a series of sections, selecting random sections for sampling, and inspecting a given portion of each sample section to determine overall pavement deterioration. Pavement deterioration is based on the quantification of the different types, the severity and the number of distresses present in the sample section. This information is then used to formulate a composite index numerical value that represents the overall pavement condition. This value will range from 0 (failed) to 100 (excellent).

As part of the APMS, the PCI will be used to determine current pavement conditions, predict future conditions, develop a maintenance program and identify the most cost-effective time frame to perform major rehabilitation.

The PCI will also aid in tracking and determining causes of deterioration on a pavement. The correlation between a PCI number and a recommended repair is shown in the illustration to the right. Preventive maintenance consists of patching, crack sealing and joint sealing. Pavement rehabilitation includes surface treatments and thin overlays. Pavement reconstruction refers to fulldepth reconstruction and thick overlays. Minor surface treatments are used to address weathering and low-severity raveling. Major surface treatments are used to address medium- and highseverity raveling.

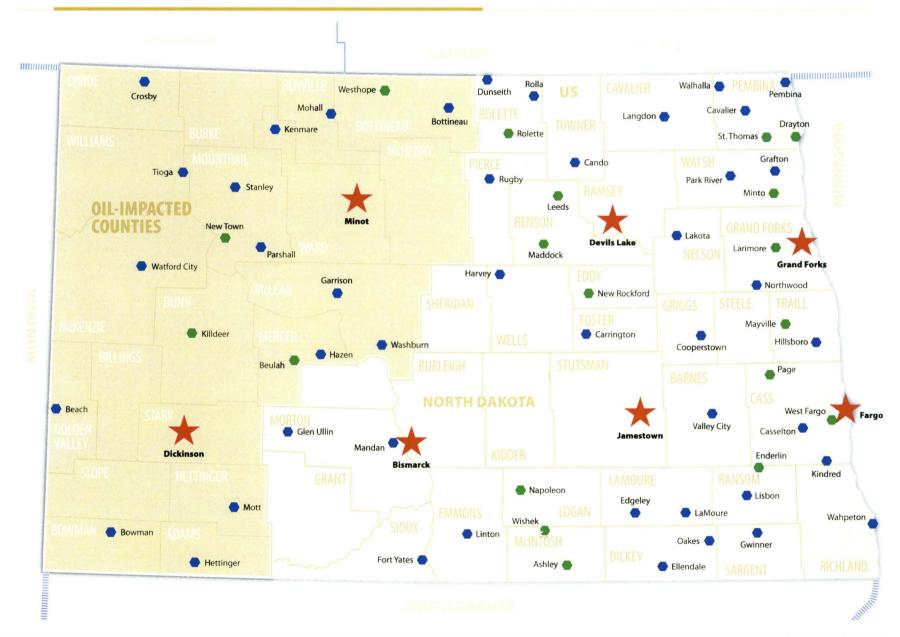


Pavements with PCIs above 70 benefit from cost-effective preventive maintenance, such as crack sealing and surface

Pavements with a PCI in the range of 41 to 70 will typically require more expensive rehabilitation, such as an overlay.

deteriorate to a PCI of 40 or below could require costly reconstruction to restore it to operational condition.

- General Aviation NPIAS (Federal Funding)
- General Aviation Non-NPIAS (State & Local Funding)



Typical Distress Types

The FAA Advisory Circular provides a list of specific distresses to be analyzed and recorded when inspecting pavement. Airports in North Dakota are a combination of asphalt concrete (AC) pavement and Portland cement concrete (PCC) pavement with there being slightly more AC pavement than PCC pavement. These two pavement types have unique pavement distresses and repairs. The following is a brief description of commonly observed pavement distresses at North Dakota airports.



ALLIGATOR (FATIGUE) CRACKING. Alligator (fatigue) cracking is a load-related distress. Alligator cracking is caused by excessive tensile strains at the bottom of the AC layer or stabilized asphalt base layer from repeated aircraft loadings. Alligator cracking typically shows up on the surface as a series of parallel cracks, which eventually interconnect to form a pattern resembling the skin of an alligator.



Joint SEAL DAMAGE. Joint sealant damage is any condition that enables soil or rocks to accumulate in the joints or allows significant infiltration of water. Accumulation of incompressible materials prevents the slabs from expanding and may result in buckling, shattering, or spalling. A pliable joint filler bonded to the edges of the slabs protects the joints from accumulation of materials and also prevents water from seeping down and softening the foundation supporting the slab. Typical types of joint seal damage are: (1) stripping of joint sealant, (2) extrusion of joint sealant, (3) weed growth, (4) hardening of the filler (oxidation), (5) loss of bond to the slab edges, and (6) absence of sealant in the joint.



LONGITUDINAL AND TRANSVERSE CRACKING. The predominant distress type found on asphalt pavements at North Dakota airports is longitudinal and transverse (L&T) cracking. This distress can be caused by any of the following: (1) separation of pavement at paving lane joints, (2) shrinkage of AC pavement due to temperature differentials in older or brittle pavements, or (3) reflection cracking from underlying faults in supportive layers of pavement or subgrade. Cracking is also a common distress type for PCC pavement. This distress is caused by a combination of load repetition, curling stresses, and shrinkage stresses.



RAVELING. As pavements age and are exposed to oxidation and other environmental stresses, they may experience a loss in the material making up the pavement matrix. Raveling is the dislodging and loss of coarse aggregate in the surface of a pavement. The pavement may be showing signs of aging and hardening and may result in the production of FOD.



SPALLING. Spalling, in PCC pavement, is the breakdown of the slab edges in close proximity to the slab joint. Spalling is identified as occurring in the corner or along the joint of a PCC slab. Spalling is typically caused by the introduction of incompressible material in the joint, weaker pavement at the joint caused by overworking of the pavement during construction, traffic loading or a combination of these.



WEATHERING. As pavements age and are exposed to oxidation and other environmental stresses, they may experience a loss in the material making up the pavement matrix. Weathering is the loss of asphalt binder and fine aggregate in the surface of the pavement. The loss of fine matrix material in the surface may eventually lead to the exposure and dislodging of coarse aggregate, leading to raveling and FOD.

Pavement Classification Number (PCN)

A PCN is a value that indicates the strength of a pavement as it relates to aircraft classification numbers, which are assigned to each type of aircraft. Aircraft traffic information as well as subgrade and pavement strengths are critical inputs in determining this value. Pavements at the commercial service airports were analyzed in 2012 to provide a PCN value as detailed in FAA Advisory Circular 150/5335-5B, Standardized Methods of Reporting Airport Pavement Strength – PCN. The PCN is expressed as a five-part code. The first part of the PCN is a numerical value indicating the load-carrying capacity of the pavement. This numerical value is followed by four codes representing the following categories:

PAVEMENT TYPE

R = Rigid

F = Flexible

SUBGRADE STRENGTH

 $A = High (k-value \ge 442 psi/in or CBR \ge 13)$

B = Medium (221 psi/in < k-value < 442 psi/in or 8 < CBR < 13)

C = Low (92 psi/in < k-value \leq 221 psi/in or 4 < CBR \leq 8)

 $D = Ultra Low (k-value \le 92 psi/in or CBR \le 4)$

MAXIMUM ALLOWABLE TIRE PRESSURE

W = High (no pressure limit)

X = Medium (146 to 218 psi)

Y = Low (74 to 145 psi)

Z = **Ultra Low** (pressure limited to 73 psi)

PAVEMENT EVALUATION METHOD

T = Technical Evaluation

U = Using Aircraft Evaluation

PCN results were not calculated as part of the 2015 study. The 2012 PCN results for the state are listed in the table below. A detailed PCN report for each airport can be found online on the NDAC website, www.aero.nd.gov.

2012 PCN Results

BRANCH ID	PCN
Runway 13-31	42 F/A/W/T
Runway 3-21	26 F/A/W/T
Runway 13-31	27 F/D/W/T
Runway 3-21	26 F/D/W/T
Runway 14-32	20 F/D/W/T
Runway 7-25	6 F/D/W/T
Runway 18-36	95 R/C/W/T
Runway 9-27	25 R/C/W/T
Runway 13-31	17 R/D/W/T
Runway 17L-35R	9 R/C/W/T
Runway 17R-35L	35 R/C/W/T
Runway 9L-27R	24 R/B/W/T
Runway 9R-27L	10 R/C/W/T
Runway 13-31	79 F/C/W/T
Runway 4-22	25 F/D/W/T
Runway 13-31	43 R/C/W/T
Runway 8-26	34 F/D/W/T
	Runway 13-31 Runway 3-21 Runway 3-21 Runway 3-21 Runway 14-32 Runway 7-25 Runway 18-36 Runway 9-27 Runway 13-31 Runway 17L-35R Runway 17R-35L Runway 9L-27R Runway 9R-27L Runway 13-31 Runway 4-22 Runway 13-31

Analysis of Results

Critical PCI Values

For each year of the analysis, the future condition of each of the pavements was estimated and a determination was made as to whether preventive maintenance or major rehabilitation/reconstruction was the appropriate and most cost-effective method of maintaining pavement life. If a pavement was projected to be above the critical PCI values listed below, the pavement was recommended for preventive maintenance. Major rehabilitation/reconstruction was recommended for any PCI value below the PCI critical thresholds. Surface treatments were identified for viable candidates that exhibited weathering and/or raveling. These were identified separate from the critical value analysis.

- 60 for general aviation taxiways and aprons
- 65 for commercial service taxiways and aprons
- 70 for general aviation runways
- 75 for commercial service runways



Interested in a Particular Airport's Pavement Condition & History?

For information on pavement distresses for a specific airport, visit the Interactive Data Exchange Application (IDEA) website by going to www.aero.nd.gov and navigating to "Studies" then "Pavement Condition Index" then "Click Here." Once there, you can view a list of the distresses that were identified as well as a maintenance and rehabilitation plan for each airport. The IDEA site also contains photos of each airport along with an interactive version of the airport's PCI map.

Overall Pavement Condition

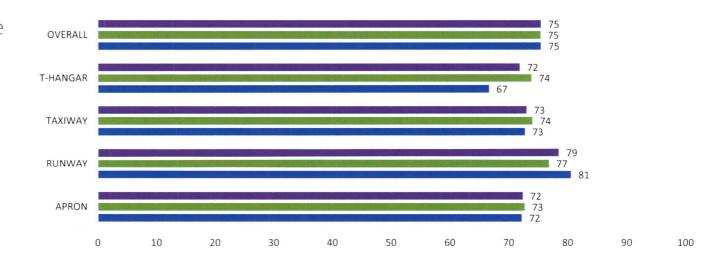
Each airport was inspected and an overall area-weighted pavement condition is assigned to each. The information collected at each airport is used to provide greater detail on the uses of pavements and the correlating PCI value associated with each use. The overall area-weighted PCI of all the airports included in this study is 75. The chart below, *Area-Weighted Average PCI Value by Use*, shows the 2015 condition of the pavement broken out by use and airport classification. The *Overall Area-Weighted PCI* table on the next page provides the overall area-weighted PCI for each airport.

Area-Weighted Average PCI Value by Use

■ Overall State System

■ General Aviation

■ Commercial Service



Overall Area-Weighted PCI

AIRPORT NAME	AREA- WEIGHTED PCI
Ashley Municipal	59
Beach	79
Beulah Municipal	84
Bismarck Municipal	69
Bottineau Municipal	82
Bowman Regional	100
Cando Municipal	63
Carrington Municipal	72
Casselton Robert Miller Regional	70
Cavalier Municipal	81
Cooperstown Municipal	53
Crosby Municipal	78
Devils Lake Regional	76
Dickinson Theodore Roosevelt Regional	72
Drayton Municipal	67
Dunseith - International Peace Garden	79
Edgeley Municipal	43
Ellendale Municipal	91
Enderlin - Sky Haven	80
Fargo - Hector International	77
Fort Yates - Standing Rock	82
Garrison Municipal	71
Glen Ullin Regional	80
Grafton - Hutson Field	76
Grand Forks International	80
Gwinner - Roger Melroe Field	96
Harvey Municipal	79

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有的思想的情况,但不是	AREA- WEIGHTED
AIRPORT NAME	PCI
Hazen - Mercer County Regional	77
Hettinger Municipal	58
Hillsboro Regional	55
Jamestown Regional	62
Kenmare Municipal	93
Killdeer - Dunn County	93
Kindred - Robert Odegaard Field	71
Lakota Municipal	71
LaMoure Rott Municipal	29
Langdon - Robertson Field	46
Larimore Municipal	77
Leeds Municipal	44
Linton Municipal	41
Lisbon Municipal	47
Maddock Municipal	100
Mandan Municipal	85
Mayville Municipal	91
Minot International	82
Minto Municipal	71
Mohall Municipal	85
Mott Municipal	71
Napoleon Municipal	69
New Rockford - Tomlinson Field	63
New Town Municipal	100
Northwood Municipal - Vince Field	43
Oakes Municipal	91
Page Regional	18

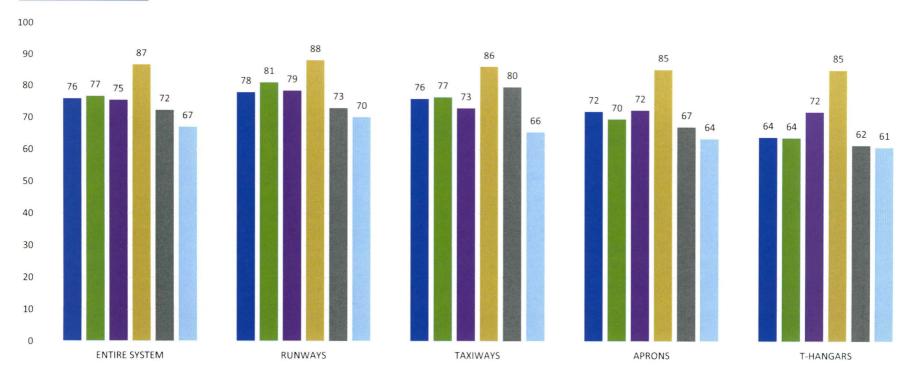
	AREA- WEIGHTED
AIRPORT NAME	PCI
Park River - W C Skjerven Field	83
Parshall-Hankins	93
Pembina Municipal - Thomas Nord Field	65
Rolette	82
Rolla Municipal	93
Rugby Municipal	76
St. Thomas Municipal	69
Stanley Municipal	80
Tioga Municipal	71
Valley City - Barnes County Municipal	91
Wahpeton - Harry Stern	81
Walhalla Municipal	88
Washburn Municipal	99
Watford City Municipal	77
West Fargo Municipal	83
Westhope Municipal	78
Wishek Municipal	40

Historic Pavement Condition

The APMS is updated every three years and it is important to show how the system as a whole is performing from update to update. The *Area-Weighted Average PCI by Use* chart below provides a summary of the 2009 and 2012 historic PCI values; current 2015 PCI values; projected PCI values in 2020 if unlimited funding were available; projected PCI values in 2020 if only the anticipated state budget funding were available; and the projected PCI values in 2020 if no improvements were completed on the existing system.

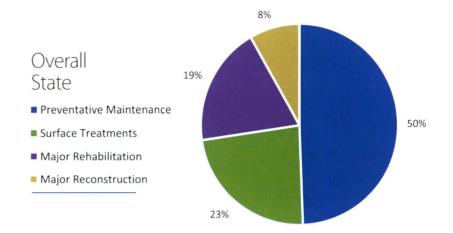
Area-Weighted Average PCI by Use

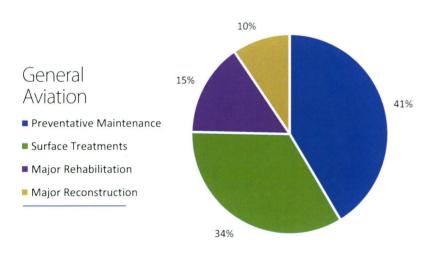


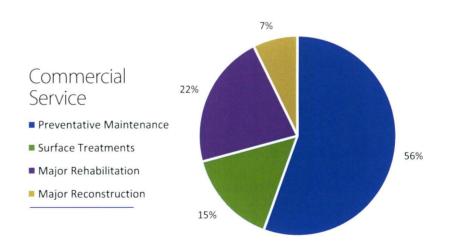


Pavement Condition Distribution

Approximately 50 percent of the airports included in the 2015 APMS are at the condition level where they will benefit from preventive maintenance actions, such as crack sealing, joint sealing, and patching. Roughly 23 percent would benefit from applying a surface treatment. Approximately 19 percent of the pavement infrastructure is in need of more extensive rehabilitation, while 8 percent is in need of reconstruction to restore the pavement. The following pie charts show the level of work that is needed in the system.







Pavement Funding Assessment

Funding for aviation projects within the state is crucial in order to maintain a steady pavement condition and ensure safety of all aviation users. If no funding is provided for pavement maintenance and repair, North Dakota's pavement system will experience a slow and steady decline in condition. This decline would result in a need for more major rehabilitation or reconstruction projects, which in turn significantly increases future cost.

Using the information collected during the pavement inspection, a rehabilitation program for 2016 through 2020 was developed for every airport in the state. A five-year program was prepared with the goal of maintaining the pavement above the established critical PCI values listed earlier in this report. This program generates a major rehabilitation recommendation for pavement in the year they drop below their critical PCI.

If all projects identified in the PCI study were funded, an approximate total of \$181 million would be needed during the next five years – \$105.1 million for commercial service airports and \$75.9 million for general aviation airports. The unlimited budget funding for individual airport needs through 2020 are summarized in the table shown to the right, *Five-Year Funding Plan*. This analysis is for 2016 through 2020 with an inflation factor of four percent when calculating future cost of work. The unit costs used to estimate overall project costs are based on averages of recent projects completed throughout the state. These costs are averages and are not intended to be used for specific project planning purposes. Money identified in an unlimited budget scenario is to maintain or rehabilitate existing infrastructure and does not include any additional needs or improvements made.

Five-Year Funding Plan

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
Commercial Service	Bismarck Municipal	\$20,141,319
	Devils Lake Regional	\$5,168,798
	Dickinson Theodore Roosevelt Regional	\$8,443,856
	Fargo - Hector International	\$26,825,163
	Grand Forks International	\$16,429,217
	Jamestown Regional	\$13,353,434
	Minot International	\$14,764,949
Five-Year Commercia	l Service Funding Total	\$105,126,736
General Aviation	Beach	\$833,072
(NPIAS)	Bottineau Municipal	\$384,900
	Bowman Regional*	\$0
	Cando Municipal	\$1,866,699
	Carrington Municipal	\$1,741,238
	Casselton Robert Miller Regional	\$4,275,086
	Cavalier Municipal	\$1,114,929
	Cooperstown Municipal	\$1,933,878
	Crosby Municipal	\$1,320,059
	Dunseith - International Peace Garden	\$95,764
	Edgeley Municipal	\$2,599,711
	Ellendale Municipal	\$350,709
	Fort Yates - Standing Rock	\$232,100
	Garrison Municipal	\$1,643,969
	Glen Ullin Regional	\$1,361,368
	Grafton - Hutson Field	\$1,153,065
	Gwinner - Roger Melroe Field	\$127,003
	Harvey Municipal	\$383,986
	Hazen - Mercer County Regional	\$2,085,064

^{*} No or minimal five-year funding needed because airport was recently constructed or reconstructed.

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
General Aviation	Hettinger Municipal	\$4,236,058
(NPIAS)	Hillsboro Regional	\$2,900,094
	Kenmare Municipal	\$187,004
	Kindred - Robert Odegaard Field	\$2,548,473
	Lakota Municipal	\$1,755,477
	LaMoure Rott Municipal	\$2,495,926
	Langdon - Robertson Field	\$2,780,281
	Linton Municipal	\$2,788,554
	Lisbon Municipal	\$2,362,470
	Mandan Municipal	\$1,692,069
	Mohall Municipal	\$372,430
	Mott Municipal	\$284,808
	Northwood Municipal - Vince Field	\$2,831,781
	Oakes Municipal	\$327,941
	Park River - W C Skjerven Field	\$234,257
	Parshall-Hankins	\$203,261
	Pembina Municipal - Thomas Nord Field	\$1,943,878
	Rolla Municipal	\$404,465
	Rugby Municipal	\$461,607
	Stanley Municipal	\$1,080,600
	Tioga Municipal	\$2,033,820
	Valley City - Barnes County Municipal	\$196,511
	Wahpeton - Harry Stern	\$1,921,626
	Walhalla Municipal	\$288,251
	Washburn Municipal	\$10,096
	Watford City Municipal	\$1,517,867
Five-Year General Aviation NPIAS Funding Total		\$61,362,205

CLASSIFICATION	AIRPORT NAME	5-YEAR TOTAL FUNDING NEEDS
General Aviation	Ashley Municipal	\$2,403,220
(Non-NPIAS)	Beulah Municipal	\$297,012
	Drayton Municipal	\$459,907
	Enderlin - Sky Haven	\$379,776
	Killdeer - Dunn County*	\$35
	Larimore Municipal	\$594,863
	Leeds Municipal	\$1,872,596
	Maddock Municipal*	\$0
	Mayville Municipal	\$574,093
	Minto Municipal	\$327,389
	Napoleon Municipal	\$231,099
	New Rockford - Tomlinson Field	\$1,685,344
	New Town Municipal*	\$0
	Page Regional	\$1,097,942
	Rolette	\$412,820
	St. Thomas Municipal	\$862,280
	West Fargo Municipal	\$725,030
	Westhope Municipal	\$77,601
	Wishek Municipal	\$2,534,289
Five-Year General Av	iation Non-NPIAS Funding Total	\$14,535,296
Five-Year Statewide	Funding Total	\$181,024,237

 $[\]hbox{* No or minimal five-year funding needed because airport was recently constructed or reconstructed.}$

Summary



This report summarizes the results of the pavement evaluation conducted in North Dakota as part of the state APMS database update for airports. This includes 7* NPIAS commercial service airports, 45 NPIAS general aviation airports and 19 non-NPIAS general aviation airports. The system currently has 55.3 million square feet of pavement – 31.3 million square feet at commercial service airports and 24 million square feet at general aviation airports. In 2012, the PCI value for the state was 77. During a visual inspection of the pavements in 2015, it was found that the current weighted PCI of the pavement network is 75. If no funding is provided, this PCI value will steadily fall to 67 by the end of 2020. If the state budget anticipated funding is provided, the 2020 overall PCI value of the system is anticipated to be 72. If all work identified were to be completed, the 2020 overall PCI of the system is anticipated to increase to a value of 87.

Approximately \$181 million in funding would be needed over the next five years to complete all work that has been identified in the unlimited budget scenario. This includes approximately \$105.1 million for commercial service airports and \$75.9 million for general aviation airports. Additional information can be found by visiting the NDAC website, www.aero.nd.gov.

* Williston was not inspected as part of the 2015 study. The 2012 Williston pavement inventory data used as part of the analysis includes area, age and condition but does not include the cost.







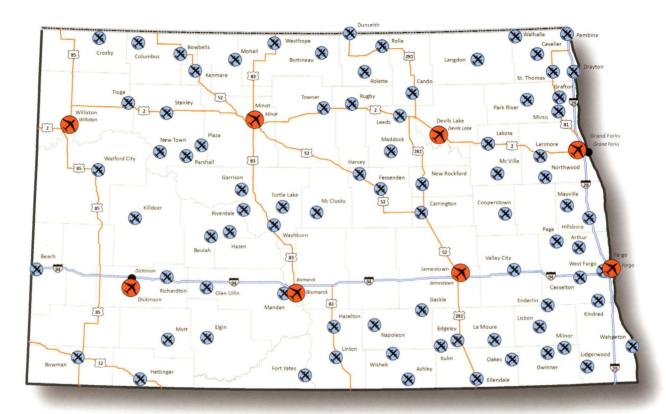
NORTH DAKOTA

AERONAUTICS COMMISSION

A STATEWIDE VOICE FOR AVIATION

80









NDSASP System Airports

PUBLIC AIRPORTS IN NORTH DAKOTA



Greetings and welcome to the skies of North Dakota!

The North Dakota Aeronautics Commission is committed to providing the public with a safe and efficient air transportation system. North Dakota's 89 public-use airports are conveniently located throughout the state and support a full range of business, commercial, and recreational activities. A recent research project undertaken by our agency has shown that our public-use airports have an estimated annual economic impact of \$1.6 billion dollars on the state's overall economy while providing support for over 12,200 jobs.

The numbers clearly show that our public airports are valuable assets to our communities, but they do so much more than what the numbers and statistics can reveal. Our airports are providing many opportunities for current and future generations to discover their passion for the field of aviation. Public access to the skies has enabled all of us to open doors to endless possibilities and lifetime experiences.

I also want to encourage you to also take a tour of our updated website which can be found at https://aero.nd.gov. Our office works hard to ensure that this website is a onestop shop for all of your North Dakota aviation needs.

As you travel throughout the state for business or pleasure, I sincerely hope that you will enjoy the time that you spend with us.

Wishing you smooth flying,

Kyle C. Wanner

Kyle C. Wanner **Executive Director**

COPIES OF THIS DIRECTORY ARE AVAILABLE BY WRITING OR CALLING:





North Dakota Aeronautics Commission P.O. Box 5020 Bismarck, North Dakota 58502-5020

> TEL: (701) 328-9650 FAX: (701) 328-9656

E-mail: ndaero@nd.gov Visit our website: http://aero.nd.gov ND Tourism: www.ndtourism.com

Tel: 1-800-435-5663

Special appreciation to NDDOT for airport photos.

AMENITIES LISTED FOR EACH AIRPORT













Aeronautical information on this airport directory is up to date through March of 2015, and is obtained from the Federal Aviation Administration Chart Supplement and the North Dakota Aeronautics Commission. Printer, publisher, and the North Dakota Aeronautics Commission make no warranty, express or implied, as to accuracy of information expressly disclaim liability for the accuracy thereof. We recommend that you check Airman's Information Manual, Chart Supplement, NOTAMS, and the Safety Bulletins from the Federal Aviation Administration for supplemental data and current information.

FLY North Dakota AIRPORTS!

North Dakota's passport program rewards pilots who fly to North Dakota's publically-owned airports, attend FAA safety seminars, and visit North Dakota's aviation museums. Fly North Dakota airports promotes safety and education, and encourages pilots to



Create a Flying LEGACY in North Dakota

practice approaches and landings in many different environments. It's also a great way to support general aviation airports, businesses, and tourism. Just visit one of the places or events listed in our passports, and have your passport stamped in the appropriate box. It's as easy as that!

HOW TO PARTICIPATE.

Get a Fly North Dakota Airports Passport at your local publicallyowned airport or by contacting the North Dakota Aeronautics Commission.

Fill in the page at the front of your passport with your name and contact information. Each time you visit a North Dakota publically-owned airport, aviation museum, or participating FAA safety seminar, have your passport stamped in the appropriate box. The location of the airport stamp is stated in the passport.

assport.

er number of stamps, submit your
) to the North Dakota Aeronautics
marck, ND 58502. Phone: (701) 328-

When you have earned the proper number of stamps, submit your passport (they will be returned) to the North Dakota Aeronautics Commission, P.O. Box 5020, Bismarck, ND 58502. Phone: (701) 328-9650. Email: ndaero@nd.gov

Visit a community event or attraction by searching NDtourism.com
or call 1-800-HELLO-ND on
your legacy flight! Each airport
box in the Passport has an
attraction listed.

North Dakota Airport Association

LOCATION & FREQ.		REMARKS	
BISMARCK (BIS) ASOS Vortac/DME ILS 31 ILS 13 RCO Tower/CTAF Ground App/Dep Con ATIS Unicom Center	116.5 110.3 111.5 122.2 118.3 121.9 126.3 119.35 122.95 135.25	(701) 255-7563 HIWAS Rwy 31 Rwy 13 GFK FSS Tower Open (1200-0600Z)	
BOTTINEAU (DO9) Center Minot APP/Dep Unicom/CTAF	127.6 119.6 122.8	MPLS Center	
BOWMAN (BWW) AWOS-3 Center RCO Unicom/CTAF	118.075 126.85 122.4 122.8	(701) 523-3412 Salt Lake Center	
CARRINGTON (46D) AWOS-3 Center UNICOM/CTAF	118.575 124.2 122.9	701-652-1875 MPLS Center	
CASSELTON (5N8) Center Fargo APP/Dep Vortac FAR Unicom/CTAF	127.35 120.4 116.2 122.8		
CAVALIER (2C8) AWOS-3 Devils Lake RCO Unicom/CTAF	118.275 122.3 122.8	701-265-8050 GFK Radio	
COOPERSTOWN (S32) AWOS-3 Jamestown RCO Unicom/CTAF) 118.750 123.6 122.9	701-797-2566 GFK Radio	
CROSBY (D50) AWOS-3 Center Unicom/CTAF	118.025 126.85 122.9	701-965-6732 Salt Lake Center	
DEVILS LAKE (DVL) AWOS-3 Vortac/DME ILS 31 RCO Unicom/CTAF	125.875 111.0 108.7 122.3 122.8	(701) 662-7214 Hiwas Rwy 31 GFK FSS	

LOCATION & FREQ.	REMARKS
DICKINSON (DIK) ASOS 118.375 VOR DME 112.9 ILS 32 108.3 RCO 122.2 Center 124.25 Unicom/CTAF 123.0	(701) 227-0280 HIWAS Rwy 32 GFK FSS MPLS Center
FARGO (FAR) ASOS Vortac W	(701) 298-3877 GFK FSS Rwy 18 Rwy 36
GARRISON (DO5) Center 127.6 Unicom/CTAF 122.9	MPLS Center
GLEN ULLIN AWOS 118.75 Center 124.25 RCO 122.45 Unicom/CTAF 122.9	(701) 348-9581
GRAFTON (GAF) AWOS-3 118.625 Center 132.15 GFK App/Dep 118.1 Unicom/CTAF 122.8	(701) 352-0581
GRAND FORKS (GFK) ASOS Vortac/DME 114.3 ILS 35L 109.1 LOC BC Rwy17R 109.1 RCO 122.2-122.6 App/Dep Con 118.1 Center 133.15 Tower/CTAF 118.4-120.55 Ground 124.575 ATIS 119.4 Unicom 122.95 Clearance 135.725	(701) 772-3486 HIWAS Rwy 35L Rwy 17R GFK FSS MPLS CTAF Tower Open (1200-0530)
GWINNER (GWR) AWOS 118.325 Center 127.35 Unicom/CTAF 122.7	(701) 678-6801 MPLS Center

LOCATION & FREQ.	REMARKS
HARVEY (5H4) AWOS-3	(701) 324-2058 MPLS Center
HAZEN (HZE) AWOS-3 118.625 Center 124.25 RCO 122.45 Unicom/CTAF 122.8	(701) 748-2443 MPLS Center GFK FSS
HETTINGER (HEI) ASOS 119.925 Center 124.25 Unicom/CTAF 122.8	(701) 567-4594 MPLS Center
HILLSBORO (3H4) Center 127.35 Fargo App/DEP 120.4 Unicom/CTAF 122.9	
JAMESTOWN (JMS) ASOS	(701) 251-9002 HIWAS Rwy 31 GFK FSS MPLS Center
KENMARE (7K5) Center 127.6 Minot App/DEP 119.6 Unicom/CTAF 122.8	MPLS Center
MANDAN (Y19) AWOS-3 118.225 Bismarck App/DEP 124.2 Center 135.25 Unicom/CTAF 122.8 VOR/DME 116.5	(701) 663-0271 (1200-0600Z) MPLS Center (0600-1200Z) HIWAS
MINOT (MOT) ASOS	(701) 837-9379 HIWAS Rwy 31 Rwy 13 Minot Air Base CTAF Tower open (1300-0400Z) GFK FSS MPLS Center

MOHALL (HBC) Minot App/DEP Con. 119.6 Center 127.6 Unicom/CTAF 122.8 Northwood (4V4) Grand Forks App/DEP 118.1 Unicom/CTAF 122.8 OAKES (205) AWOS-3 118.675 Center App/DEP 124.2 Unicom/CTAF 122.9 PEMBINA (PMB) VORTAC 112.4 FSS 122.1R Center 132.15 Unicom/CTAF 122.8 ROLLA (06D) AWOS-3 118.125 Center 127.6 RCO 122.65 Unicom/CTAF 122.8 RUGBY (RUG) AWOS-3 118.475 RCO 122.2 Unicom/CTAF 122.8 STANLEY (08D) AWOS-3 122.1 Center App/DEP 127.6 Unicom/CTAF 122.8 STANLEY (08D) AWOS-3 122.1 Center App/DEP 127.6 Unicom/CTAF 122.9 TIOGA (D60) AWOS-3 118.75 Center 127.6 Unicom/CTAF 122.9 TIOGA (D60) AWOS-3 122.9 VALLEY CITY (BAC) AWOS-3 118.75 Center 127.6 Unicom/CTAF 122.9 VALLEY CITY (BAC) AWOS-3 118.75 Center App/DEP 124.2 Unicom/CTAF 122.9 VALLEY CITY (BAC) AWOS-3 118.725 Center App/DEP 124.2 Unicom/CTAF 122.8 WAHPETON (BWP) AWOS-3 127.875 Vortac 116.2 RCO 122.425 Unicom/CTAF 123.0	LOCATION & FRE	Q.	REMARKS
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AWOS-3 118.725 (701) 845-9117 Center App/DEP 124.2 Unicom/CTAF 122.8 WAHPETON (BWP) AWOS-3 127.875 Vortac 116.2 RCO 122.425 (701) 845-9117 MPLS Center (701) 642-9800			
Center App/DEP 124.2 MPLS Center Unicom/CTAF 122.8 WAHPETON (BWP) AWOS-3 127.875 Vortac 116.2 RCO 122.425 MPLS Center (701) 642-9800	VALLEY CITY (BAC)		
Center App/DEP 124.2 MPLS Center Unicom/CTAF 122.8 WAHPETON (BWP) AWOS-3 127.875 Vortac 116.2 RCO 122.425 MPLS Center (701) 642-9800	AWOS-3	118.725	(701) 845-9117
WAHPETON (BWP) AWOS-3 127.875 Vortac 116.2 RCO 122.425 (701) 642-9800			
AWOS-3 127.875 (701) 642-9800 Vortac 116.2 RCO 122.425		122.8	
AWOS-3 127.875 (701) 642-9800 Vortac 116.2 RCO 122.425			
Vortac 116.2 RCO 122.425	WAHPETON (BWP)		
Vortac 116.2 RCO 122.425		127.875	(701) 642-9800
RCO 122.425	Vortac	116.2	• • •
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LOCATION & FREQ.	REMARKS
WALHALLA (96D) Center App/DEP 132.15 Unicom/CTAF 122.9	MPLS Center
WATFORD CITY (S2,5) Center 126.85 Unicom/CTAF 122.8	Salt Lake Center
WILLISTON (ISN) ASOS 125.92 VORTAC 116.3 ILS 29 108.7 Center 126.85 RCO 123.6 Unicom/CTAF 122.8	(701) 774-3124 HIWAS Rwy 29 Salt Lake Center GFK FSS

Temporary Flight Restrictions

FAA NOTAMS 1-877-487-6867 https://pilotweb.nas.faa.gov

While TFR's may be triggered by different events, it is important that pilots familiarize themselves with each type of restriction, and how it may impact a pilot's proposed flight. Of equal importance, pilots must know how best to gain information concerning TFR's before each flight. Inadvertent flight into a TFR not only places a pilot's certificate at risk; it also increases the chances of being intercepted by military or law enforcement aircraft. Straying into TFR airspace may also increase the risk of a mid-air collision.

For further information on TFR's, you may visit FAA's website at http://tfr.faa.gov While flying in the vicinity of the Grand Forks Airport (KGFK), please familiarize yourself with the TFR located to the west of the airport.



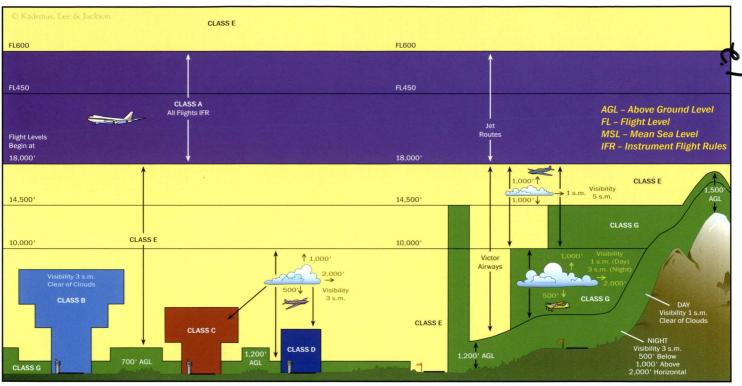
AIR TRAFFIC CONTROLLER (ATCT)

Bismarck ATCT - 701-223-8790 Fargo ATCT - 701-239-5188 Grand Forks ATCT - 701-775-2898 Minot ATCT - 701-852-2346

AIRPORT FIXED BASE OPERATORS

Ashley	Dickinson
LaDelles Flying ServiceT: 288-3194	Western Edge Aviation, LLCT: 483-4221
Beulah	(Pat Giese) C: 260-4221
Dakota Helicopter ServicesT: 873-4100	(Rick Petroff)T: 264-9966
(Shawn Morten)	www.westernedgeaviation.net
www.dakotahelicopter.com	Edgeley
Bismarck	Delux AviationT: 320-8740
Bismarck Aero CenterT: 223-4754	Fargo
(Jon Simmers)	Exclusive Aviation T: 235-3600
www.bismarckaero.com	(Randy Jenson)T: 1-800-770-0538
Executive Air TaxiT: 258-5024	www.exclusiveaviation.com
(Paul Vetter) T: 1-800-932-8924	Fargo Flight SchoolT: 373-8816
www.executive-air.com	(Mike Paulson) T: 1-800-770-0538
Bottineau	www.fargopilot.com
Botno Aircraft ServiceT: 228-5265	Fargo Jet Center T: 373-8800
(Curt Aalund)T: 228-5103	(Jim Sweeney) T: 1-800-770-0538
_	www.fargojet.com
Bowman	Kindred Arcft MaintenanceT: 232-8403
Bottom Line AviationT: 523-7484	(David Sahl) C: 610-1094
(Brent Kline)T: 440-7449	Red River AeroT: 232-2403
Casselton	(Lyle Andvik)
AIC MaintenanceT: 347-4680	www.redriveraero.com
(Trent Teets) C: 730-0123	Vic's Aircraft SalesT: 293-8362
www.aicaviation.com	(Victor Gelking)
Aircraft Investment Co T: 347-4303	www.vicsaircraftsales.net
(Randy Vining) T: 799-5782	Fessenden
Custom Aircraft RefinishingT: 347-5262	Lloyd Crop Management T: 547-3371
(Roy Kieffer) T: 1-877-347-5262	Grafton
www.aircraftrefinishing.com	
Tundra AviationT: 347-4303	Agrimax
(Randy Vining)T: 799-5782	(Andy Tibert)
www.tundraaviation.com	Grand Forks
Cavalier	AV Flight Grand Forks
Hartje AviationT: 507-560-5638	(Jeff Ohman)T: 383-5435
Cavalier Air ServiceT: 265-4466	www.flygfk.com
Devils Lake	Hazen
Foss & Meier Flight T: 662-3221	Vanco Aviation
(Troy Meier)	(Joe Van Inwagen)
DL Aero ServiceT: 662-4416	Hettinger
(Tanner Sotvik) C: 520-0229	Air Dakota FliteT: 567-0269
DL AviationT: 739-9349	(JB Lindquist)T: 567-2223
(Scott Dimmler)T: 644-2618	T: 567-4469
North Dakota Al	rea Code is 701

Hillsboro	Pembina
Sky Tractor SupplyT: 436-5880	Nord Aviation IncT: 825-6615
(Ron Deck)T: 430-0071	(Terry Nord)
On-Site Aviation T: 400-1113	
(Chad Hanson)T: 400-1113	Rolla
www.on-siteaviation.com	Rolla Flying ServiceT: 477-5145
Jamestown	(Gordon Krech)T: 477-6780
James River AviationT: 252-7978	C: 550-988
(Allen Lamp)	Rugby
First Class Aviation T: 952-1515	- (- (- (- (- (- (- (- (- (- (
(Jon Cave)	Schneider Aerial SprayingT: 776-517
	(Steve Schneider)T: 776-5176
Kindred	St. Thomas
Odegaard AviationT: 428-999	TLB AirT: 257-6629
www.odegaardaviation.homsestead.com	
Odegaard WingsT: 428-3457	Tioga
(Brent Meester)	Tioga Aero CenterT: 641-6020
Langdon	T: 664-3012
Boarder AviationT: 370-2076	tiogaaero@gmail.con
Forest Flying Service	
	, 0
Larimore	Valley City
Larimore Air ServiceT: 343-2065	North Valley AircraftT: 845-2100
(Jesse Morten)T: 343-2790	(Paul & Jarrod Lindemann) C: 793-0620
Linton	www.northvalleyaircraft.com
North Central AviationT: 254-5449	Wahneton
(Mike Gunia)	Wahpeton
	Tri-State AviationT: 642-5777
Maddock	(Cindy-Schreiber-Beck)T: 899-3232
Slater Spray ServiceT: 438-2444	www.tri-stateaviation.com
(Richard Slater)	Wilbur-Ellis AirT: 643-1300
Mandan	(Eric Klindt)
Double M Helicopter ServiceT: 642-5777	Andrew College and the College
www.doubleMhelicopters.com	Walhalla
Mandan AviationT: 390-3759	Walhalla Aviation LLCT: 281-9394
Clear Skies Aviation	Watford City
Mandan Aero CenterT: 663-9925	
	Taylor AviationT: 444-377
Minot	(Kent Taylor)T: 842-6188
Minot Aero CenterT: 857-4738	C: 770-6739
www.minotaerocenter.com	West Fargo
Northwood	Delta 54 AviationT: 371-265:
Northwood Aero ServiceT: 587-5171	
(Richard Altendorf)T: 218-779-1242	(Robbie Grande)
	Williston
Oakes	Landmark AviationT: 774-2300
Bear Creek Flying ServiceT: 742-3145	www.landmarkaviation.com
(Travis McPherson)	www.iaiidiiai.kaviatioii.cuiii
Page	
Tall TowersT: 668-2302	
(Tim McPherson)T: 799-8626	
Park River	
Northern Aircraft ServiceT: 284-7303	
(Glen/Jayse Wharam)T: 284-7804/6798	North Dakota Area Code is 701
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Classification	Definition
CLASS A	Generally airspace above 18,000 feet MSL up to and including FL 600.
CLASS B	Generally multi-layered airspace from the surface up to 10,000 feet MSL surrounding the nation's busiest airports.
CLASS C	Generally airspace from the surface to 4,000 feet AGL surrounding towered airports with service by radar approach control.

Classification	Definition	
CLASS D	Generally airspace from the surface to 2,500 feet AGL surrounding towered airports.	
CLASS E	Generally controlled airspace that is not Class A, Class B, Class C, or Class D.	
CLASS G	Generally uncontrolled airspace that is not Class A, Class B, Class C, Class D, or Class E.	



The Automated Weather Observation System (AWOS) enhances safety by providing critical airport weather information to pilots to be used for flight planning and in-flight decision-making. The system provides real-time weather observations including wind, visibility, current weather, sky conditions, temperature, dew point, altimeter setting, and remarks, such as density altitude and local airport conditions.

AWOS information can be accessed in a variety of ways, including radio frequency, telephone and weather terminals at airports with AWOS. It can also be accessed from a variety of Web sites, most AWOS information is disseminated nationwide through a system called NADIN, making it available to sources like Flight Service Stations, the National Weather Service and Weather Channel

What every pilot should know about AWOS

Wind

- taken every second and a running 2-minute average is updated every 5 seconds
- wind speeds of less than 3 knots are reported as calm
- if the difference between the highest 5-second average and 2-minute average exceeds 5 knots, gusts are reported
- wind direction is reported from the nearest 10 degree magnetic heading

Visibility

- readings are taken every 15 seconds and are averaged over a 10-minute period

Present weather

- a precipitation sensor samples every 15 seconds
- temperature and visibility measurements are used to determine precipitation type

Sky conditions (ceilings)

- readings are taken every 30 seconds and averaged over a 30-minute period
- ceiling measurements are rounded as follows:

nearest 100' up to 5000' AGL nearest 500' from 5000'-10.000' AGL nearest 1000' above 10,000'

Temperature and dew point

- four, 1-minute averages are used to determine the temperature

Altimeter (barometric pressure)

- pressure sensors take readings every 10 seconds and a 1-minute average is calculated

Remarks

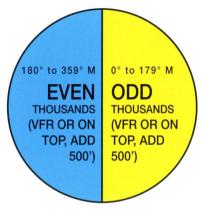
- a calculated density altitude report is provided, if density altitude is greater than 1000' above the airport's field elevation
- Occasionally, airport managers will provide recorded remarks regarding NOTAM's or local airport conditions.

AWOS is maintained by the airport in North Dakota and is continuously monitored to ensure its operational status. Individual sites are also maintained and calibrated on a regular basis to ensure reliability and accuracy. As with any electronic device, care must be used when interpreting data. By knowing how AWOS data is collected, a pilot can better understand the information they are receiving.

CITY	ID.	FREQ.	PHONE
Beach	20U	118.175	(701) 872-922
Bismarck	BIS	119.35*	(701) 255-756
NWS			**(701) 223-458
Bowman	BWW	118.075	(701) 523-341
Cando	9D7	118.325	(701) 968-362
Carrington	46D	118.575	(701) 652-187
Cavalier	2C8	118.275	(701) 265-805
Cooperstown	S32	118.750	(701) 797-256
Crosby	D50	118.025	(701) 965-673
Devils Lake	DVL	125.875	(701) 662-721
Dickinson	DIK	118.375	(701) 227-028
Fargo	FAR	124.50*	(701) 298-387
Glen Ullin	D57	118.75	(701) 348-958
Grafton	GAF	118.625	(701) 352-058
Grand Forks	GFK	119.40*	(701) 772-348
NWS			**(701) 772-072
Gwinner	GWR	118.325	(701) 678-680
Harvey	5H4	118.825	(701) 324-205
Hazen	HZE	118.675	(701) 748-244
Hettinger	HEI	119.925	(701) 567-459
Jamestown	JMS	118.425	(701) 251-900
Langdon	D55	118.225	(701) 256-212
Linton	7L2	118.175	(701) 254-496
Mandan	Y19	118.225	(701) 663-027
Minot	мот	118.725	(701) 837-937
Oakes	2D5	118.675	(701) 742-399
Rolla	06D	118.125	(701) 477-005
Rugby	RUG	118.475	(701) 776-610
Stanley	08D	121.1	(701) 628-173
Tioga	D60	118.575	(701) 664-449
Valley City	BAC	118.725	(701) 845-911
Wahpeton	BWP	127.875	(701) 642-980
Watford City	S25	118.175	(701) 842-485
Williston	ISN	125.92	(701) 774-312
NWS			**(701) 572-319

DIRECTIONAL ALTITUDE CHART

CRUISING ALTITUDES (IFR WITHIN CONTROLLED AIRSPACE MAY BE MODIFIED BY ATC)



Below 29,000' MSL

MORSE CODE AND PHONETIC ALPHABET

I				
	Alfa	Juliett	Sierra	2
I	Bravo	Kilo	Tango	3
I	Charlie —. —.	Lima	Uniform	4
I	Delta	Mike ——	Victor	5
I	Echo.	November	Whiskey.——	6 —
I	Foxtrot	Oscar	Xray	7
I	Golf	Papa	Yankee	8
I	Hotel	Quebec	Zulu——	9
I	India	Romeo	1	0
1				

VFR TRANSPONDER CODES

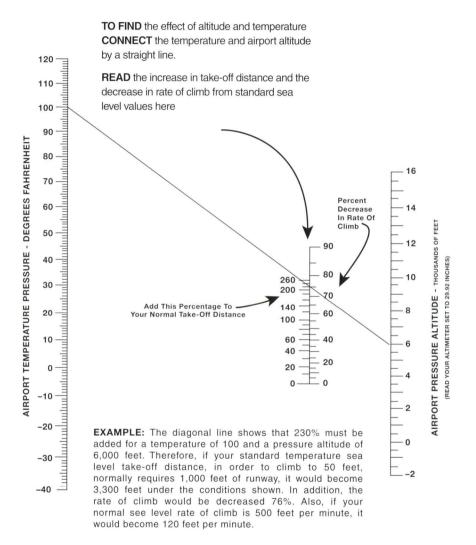
Code 1200 – Surface to 18,000 Feet

Code 7600 - Radio Failure

Code 7700 - Emergency



MODIFIED KOCH CHART FOR ALTITUDE AND TEMPERATURE EFFECTS



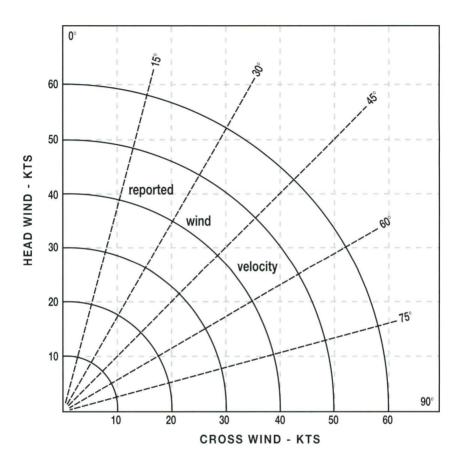
This chart indicates typical representative values for "personal" airplanes.

For exact values, consult your airplane flight manual.

The chart may be conservative for airplanes with supercharged engines.

Also, remember that long grass, sand, mud or deep snow can easily double your take-off distance.

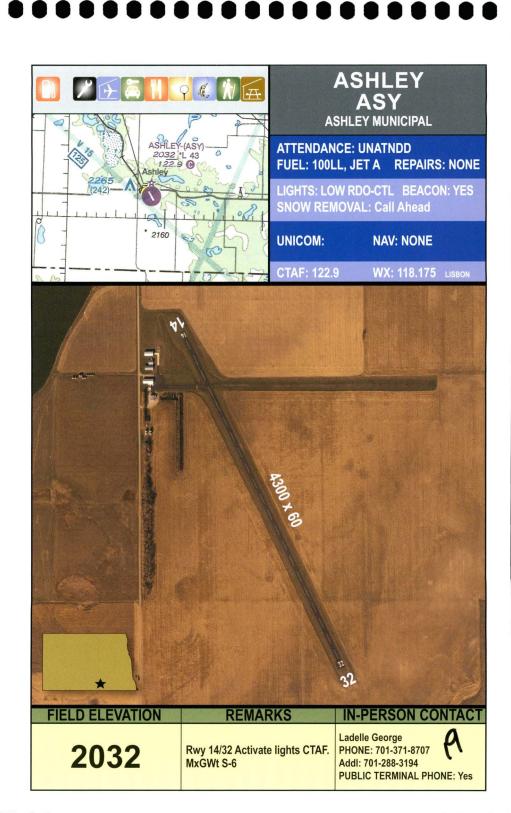


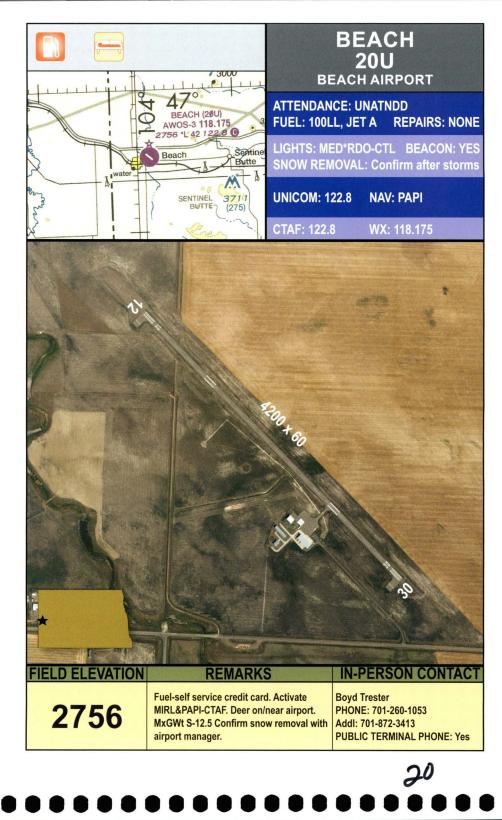


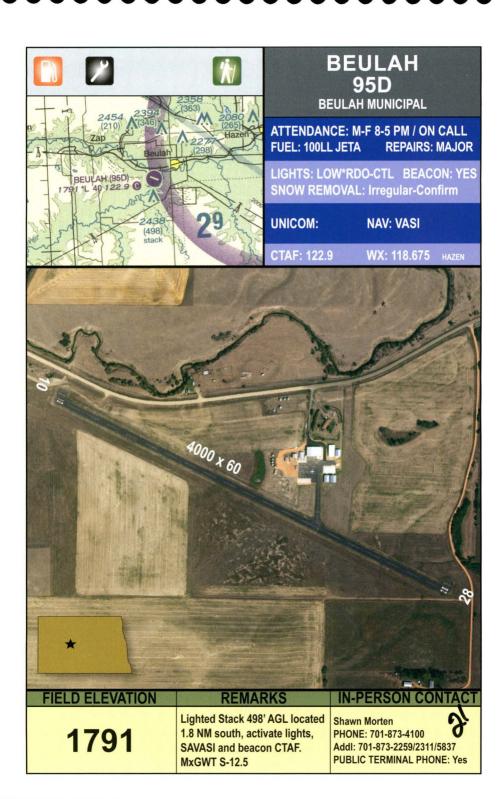
INSTRUCTIONS

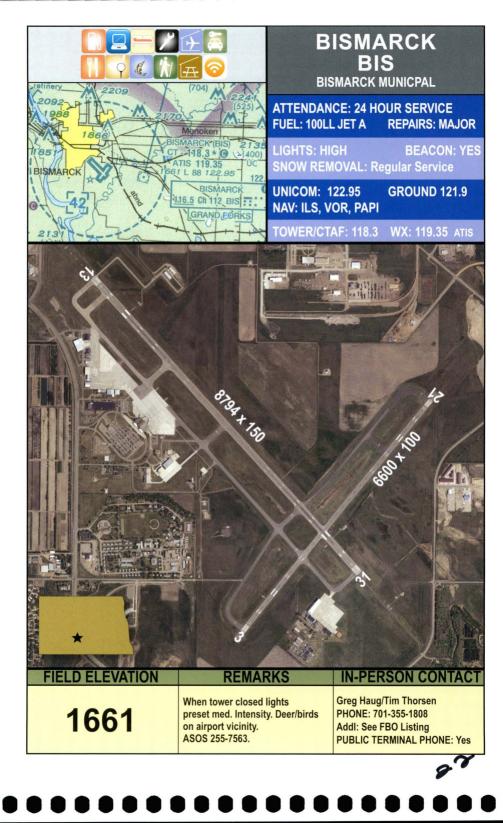
- Determine maximum 90° Cross Wind that you can handle. (Suggest 20% X Stall Speed). Place dot on 90° line at this value.
- 2. Determine maximum 45° Cross Wind that you can handle. (Suggest 30% X Stall Speed). Place dot on 45° line at this value.
- Determine maximum Head Wind that you can handle. (Suggest 60% X Stall Speed). Place dot on 0° line at this value.
- Connect dots with red line. Values to left of line are go wind velocities and directions.



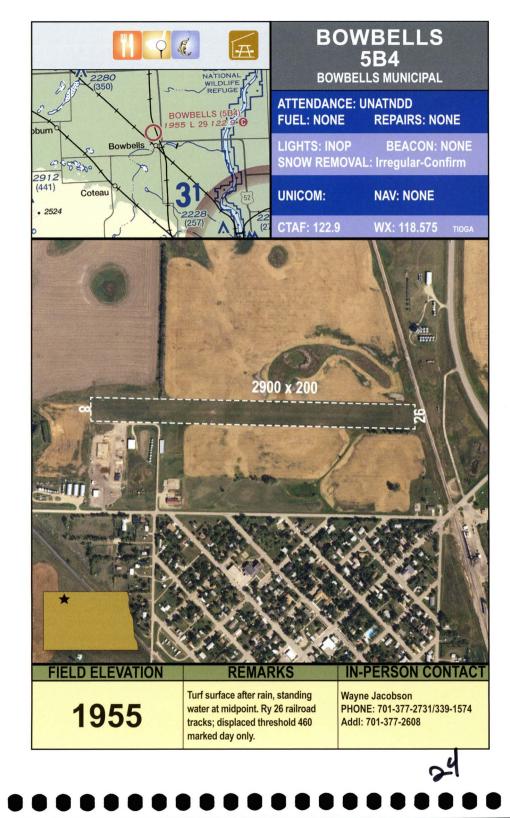


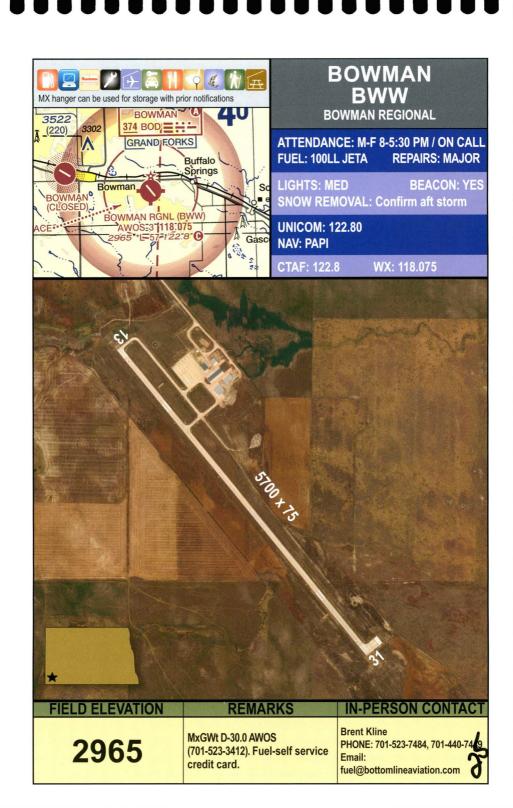




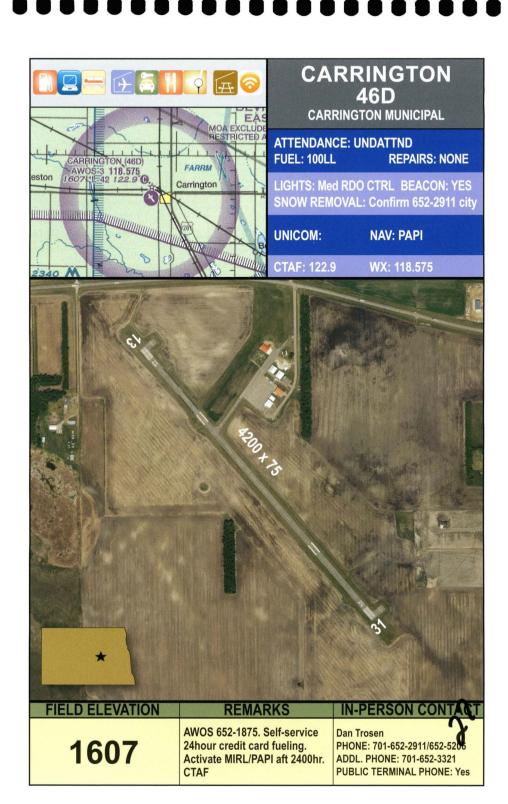


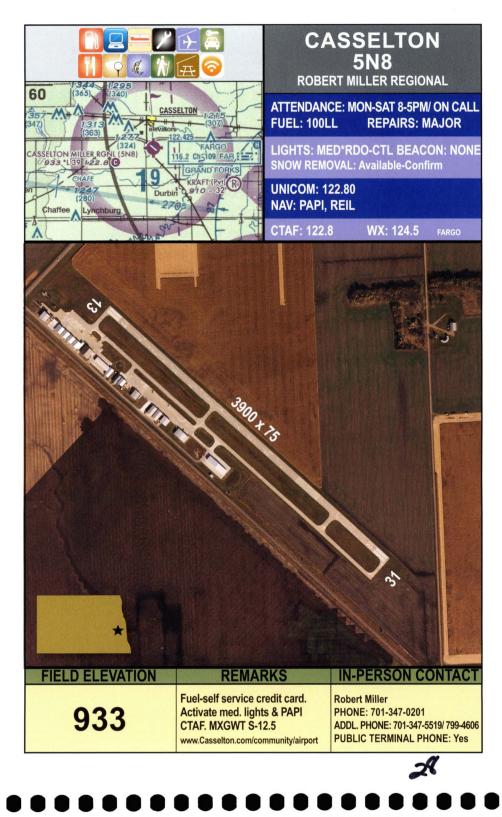


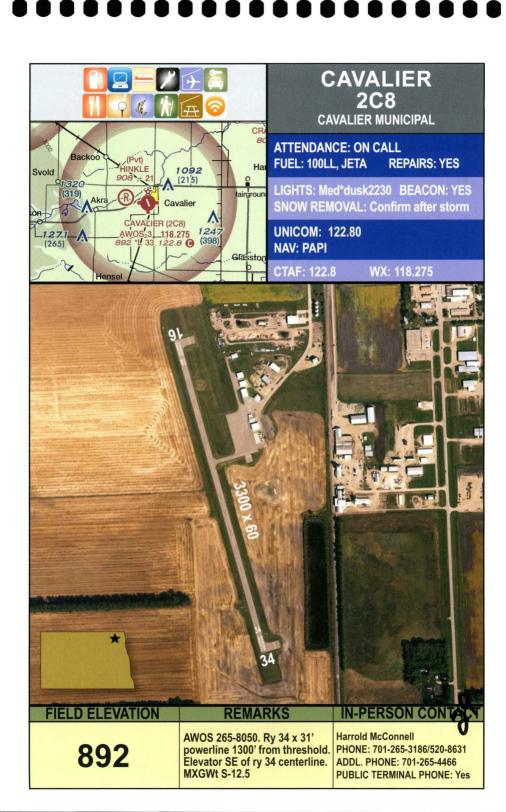


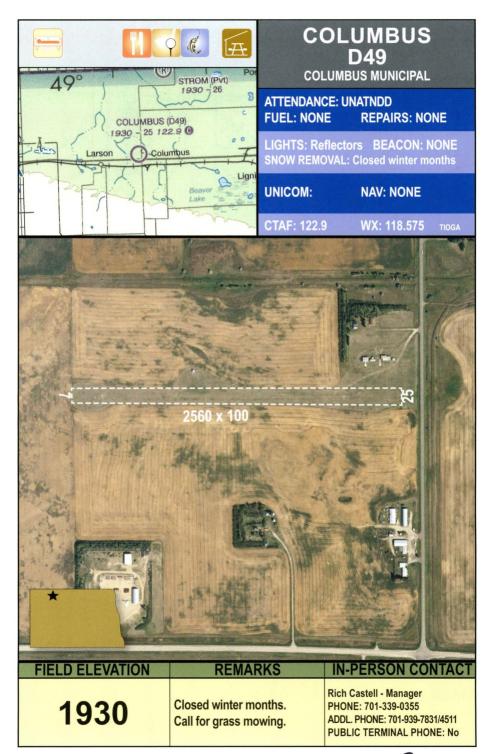




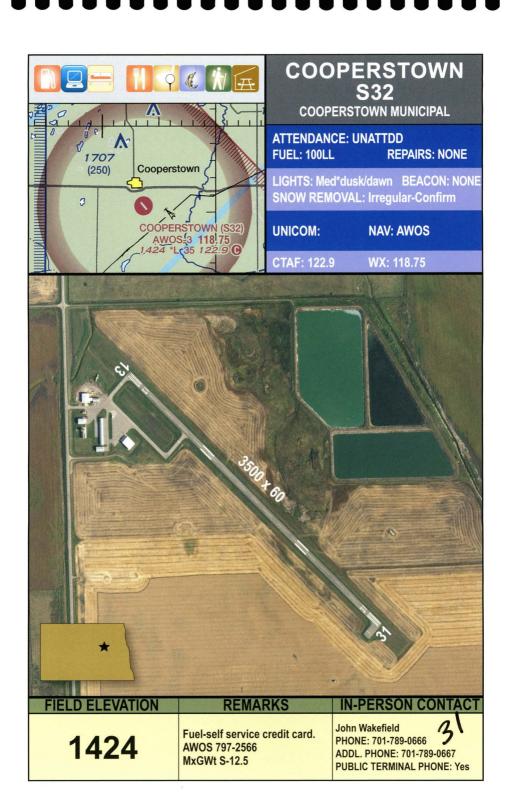


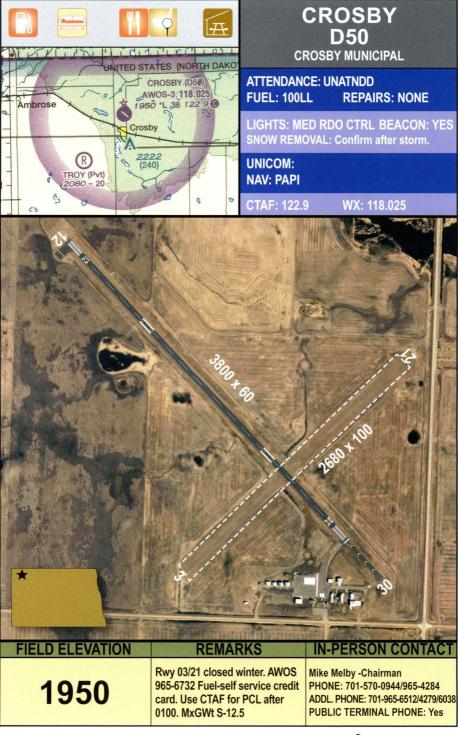


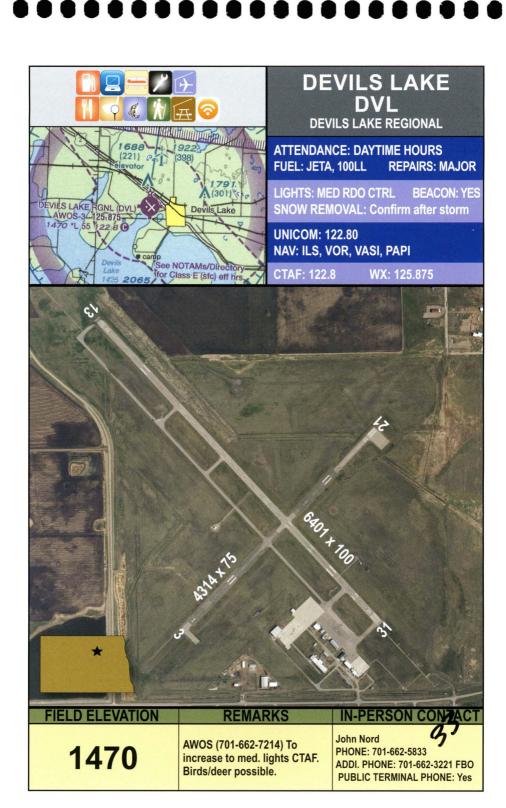




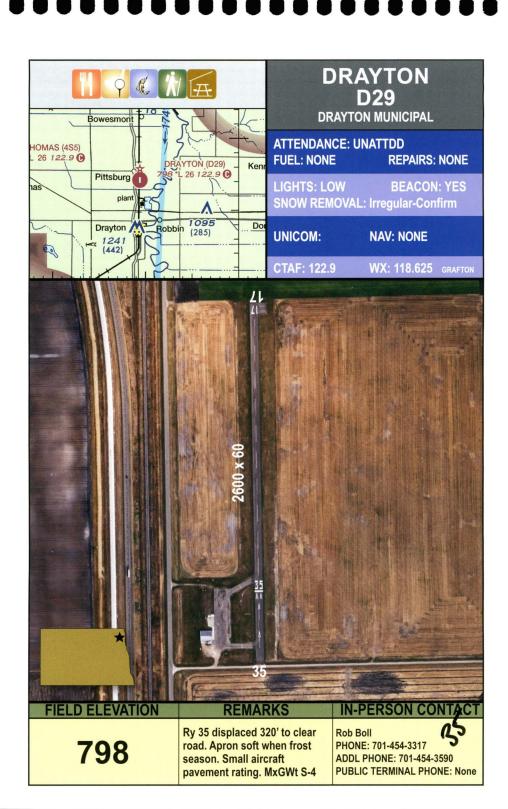


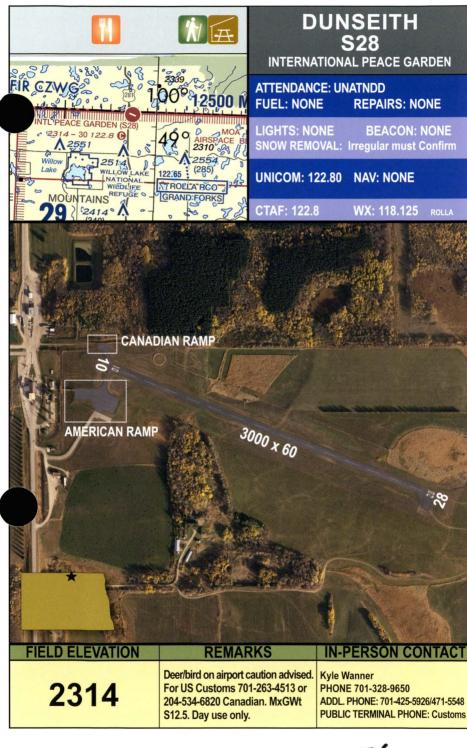










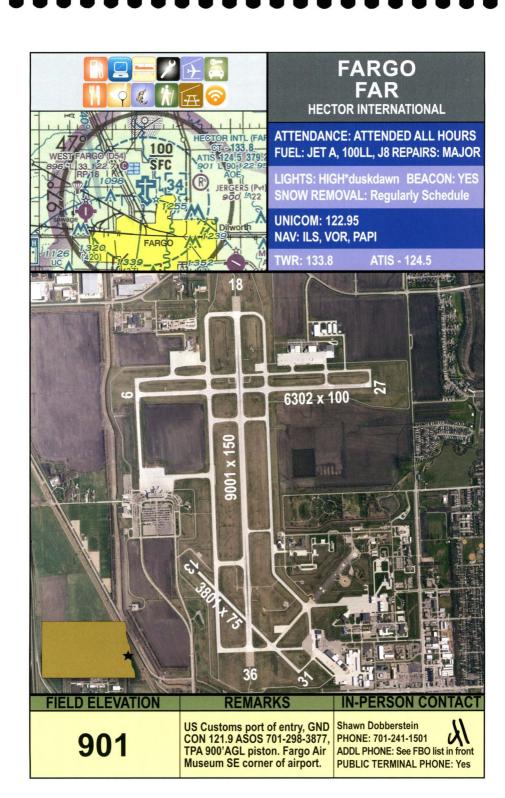


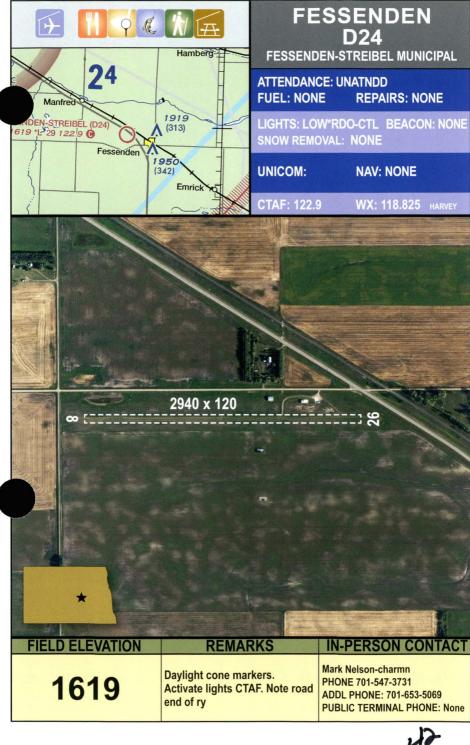




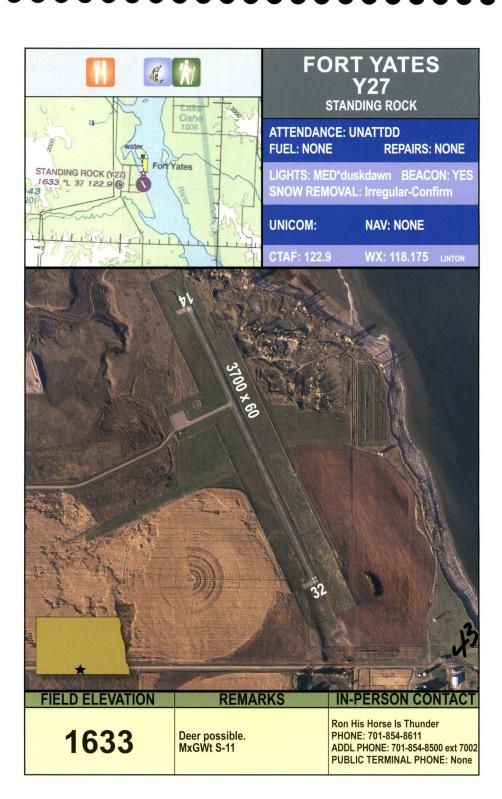




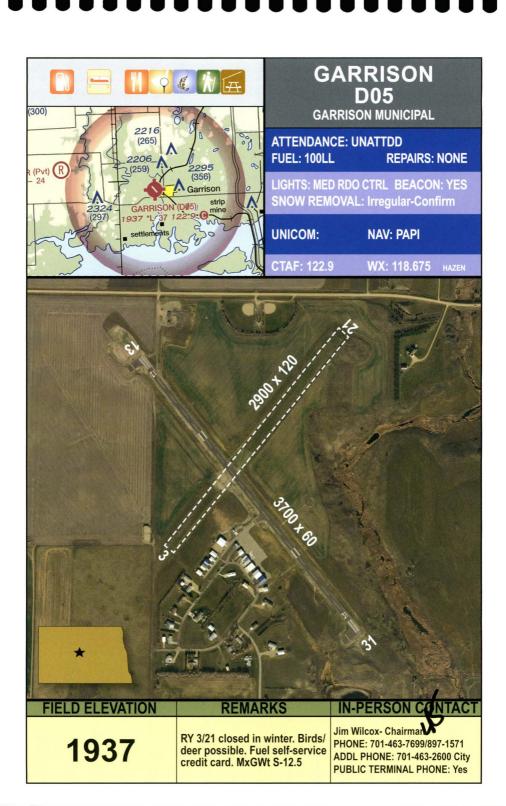


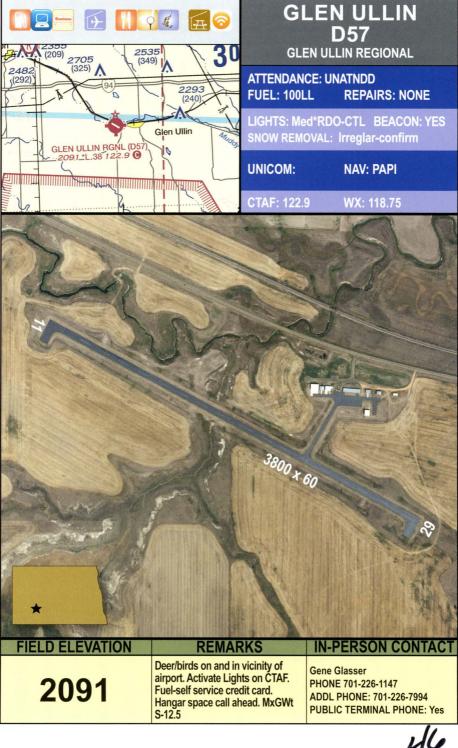


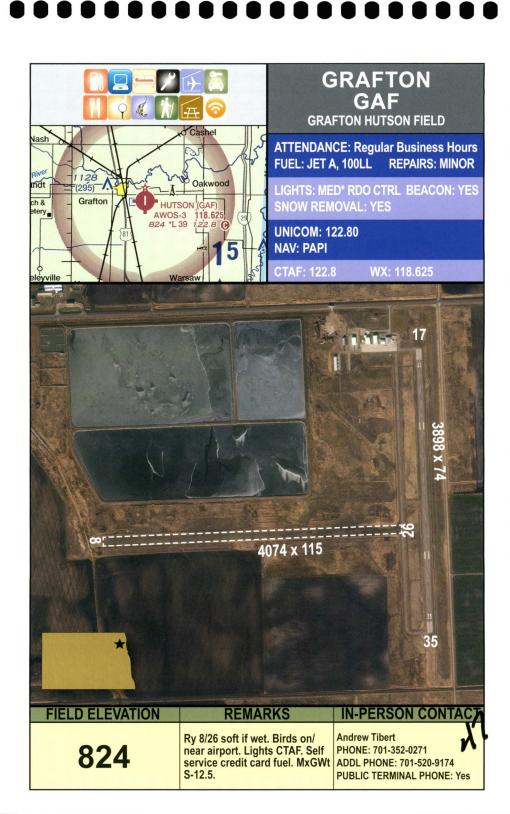


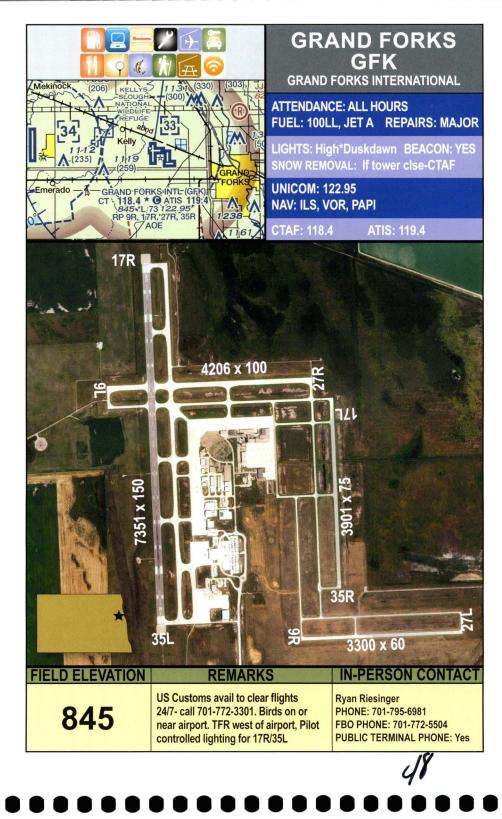


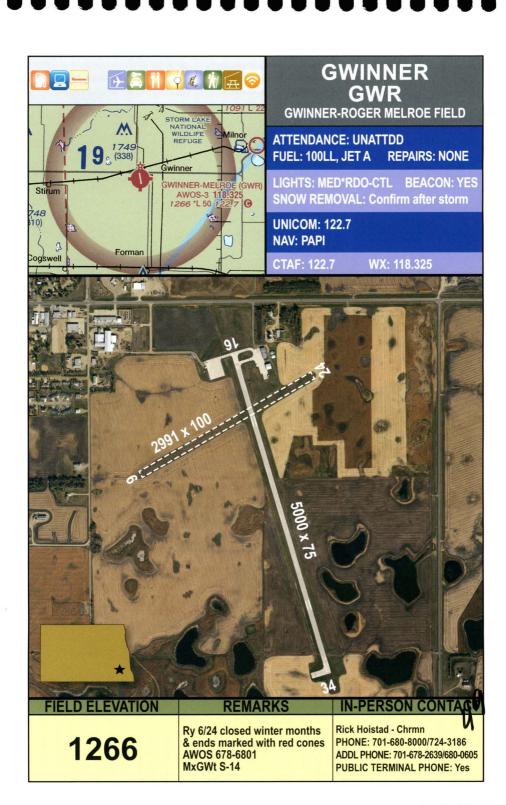




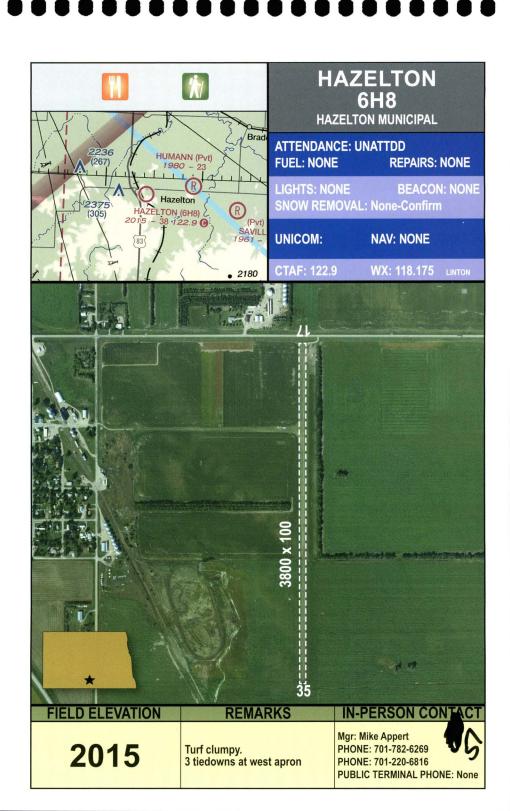




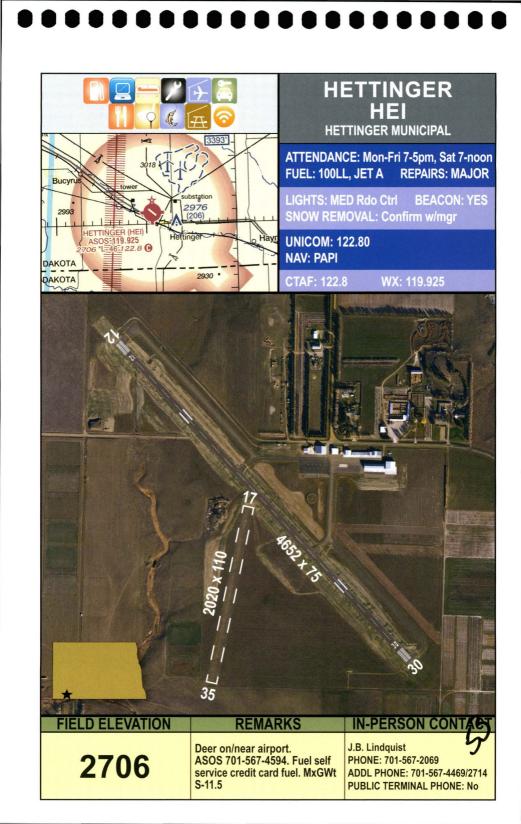




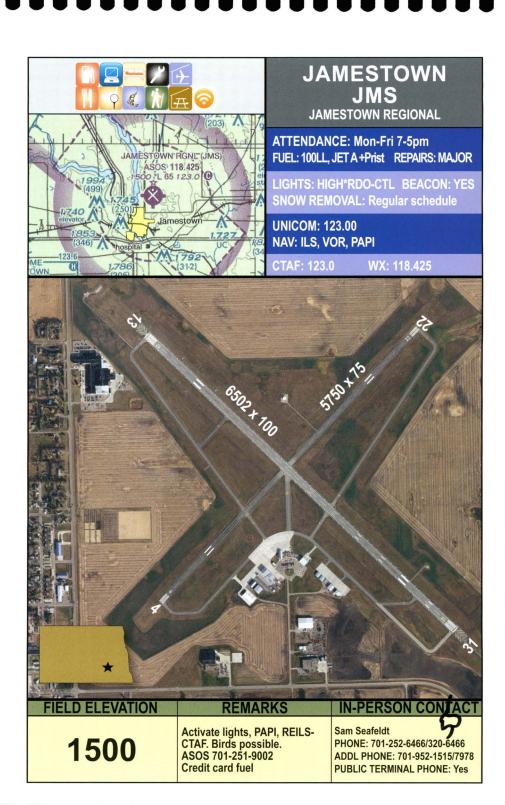




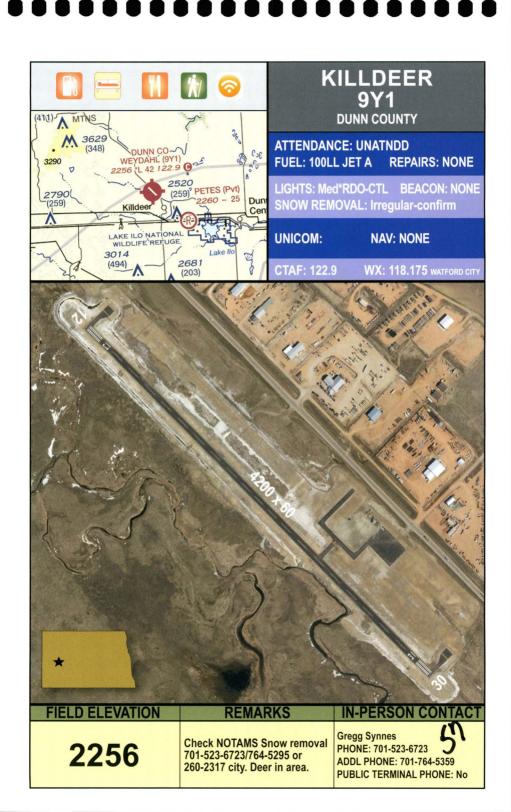




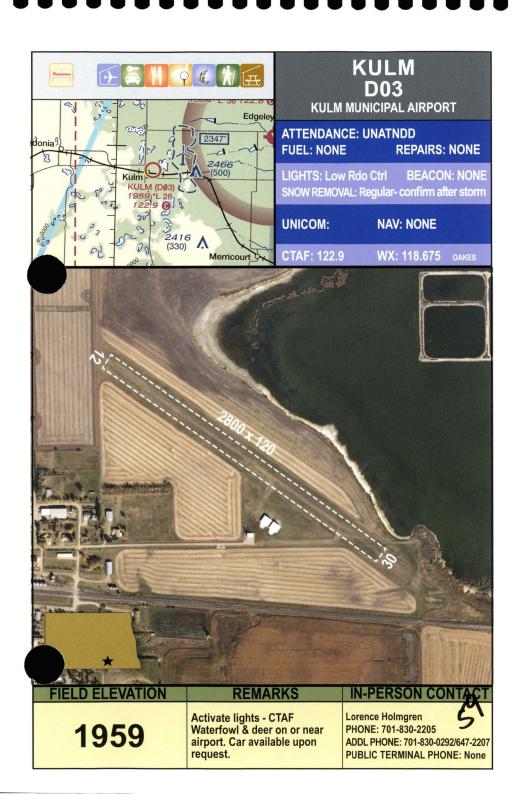




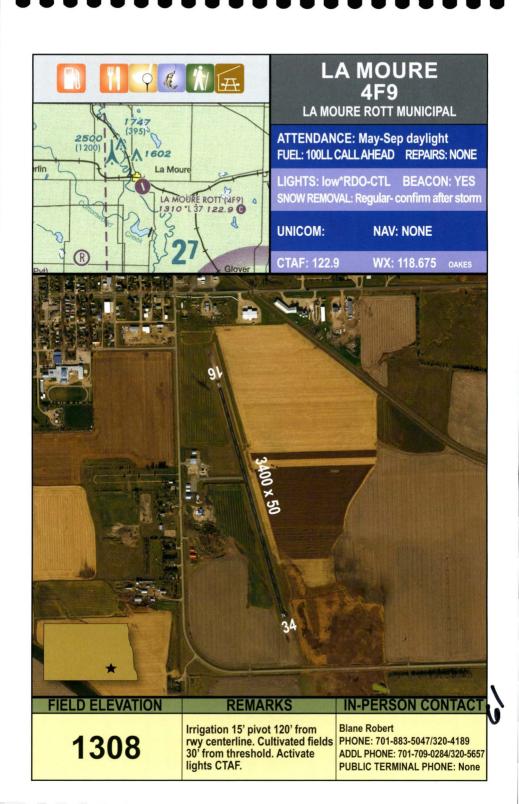






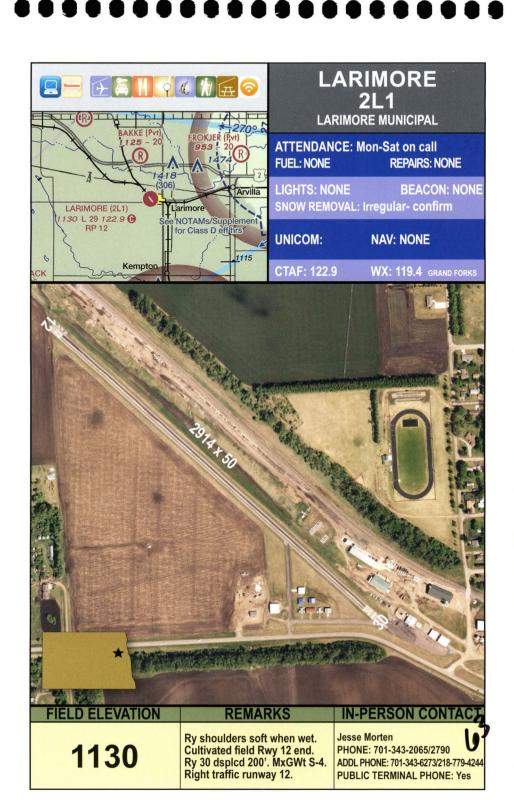




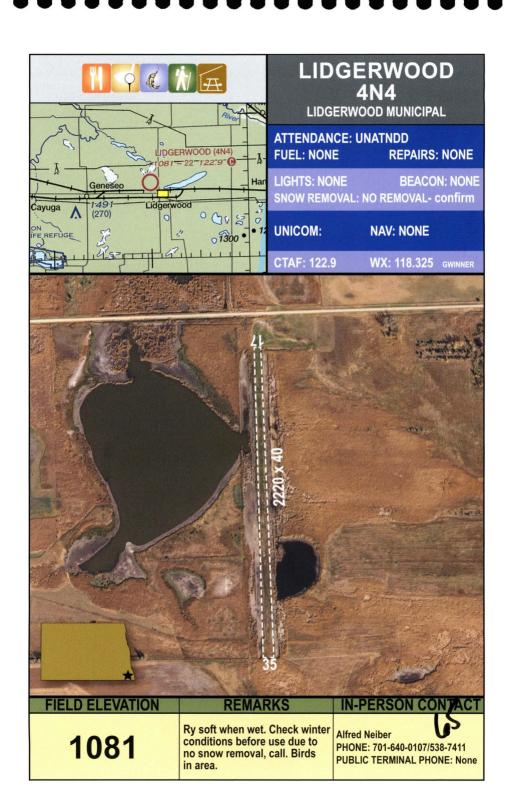










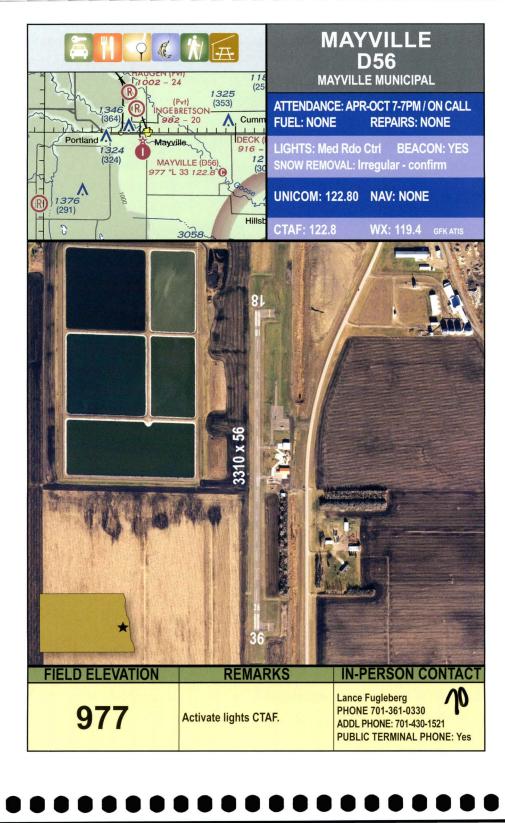


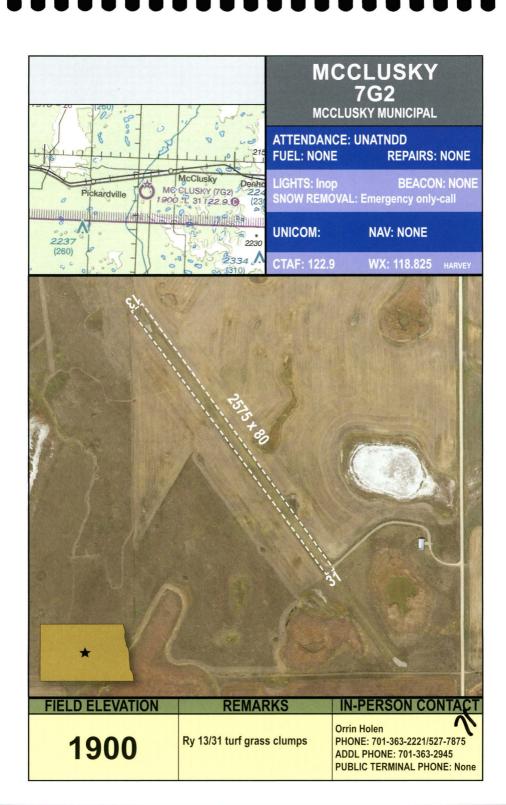




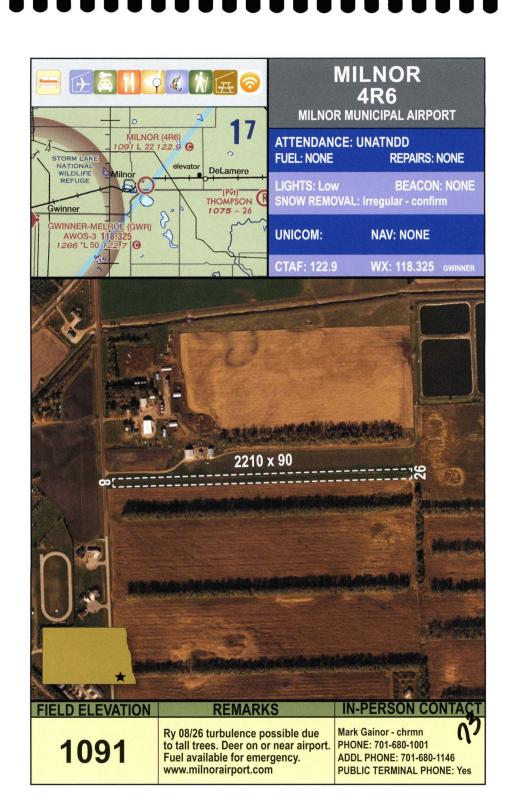


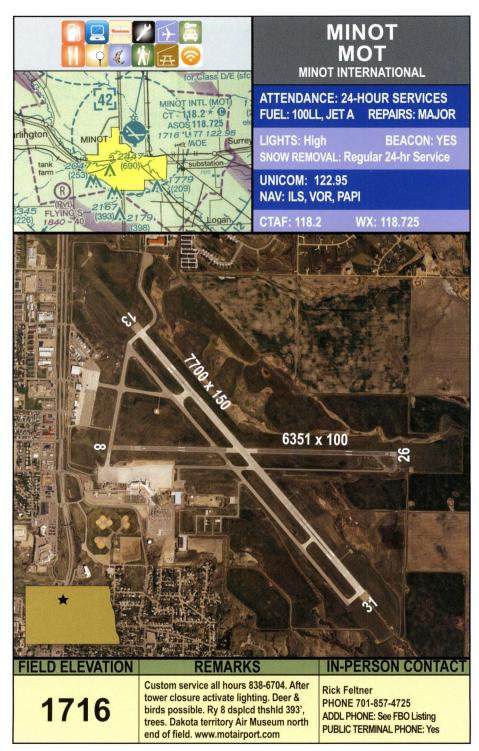


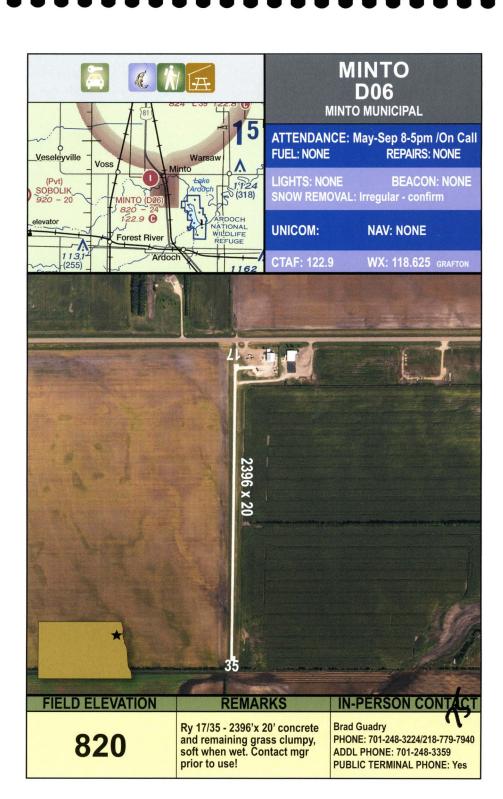






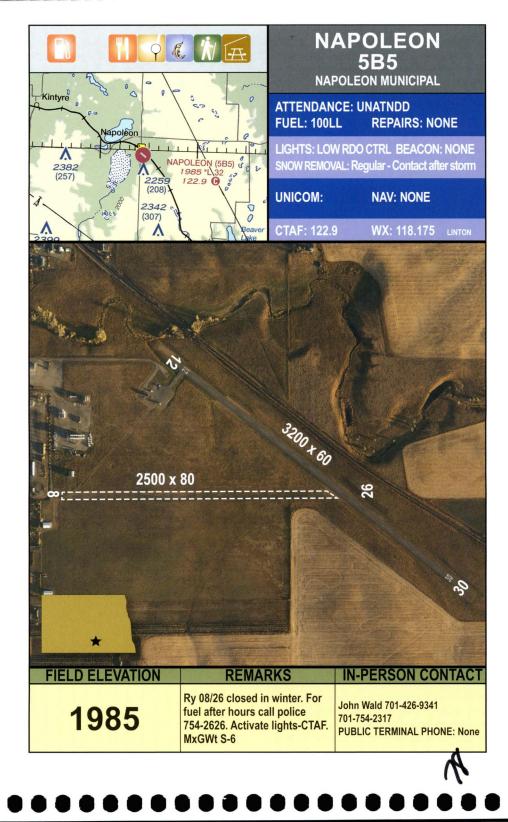


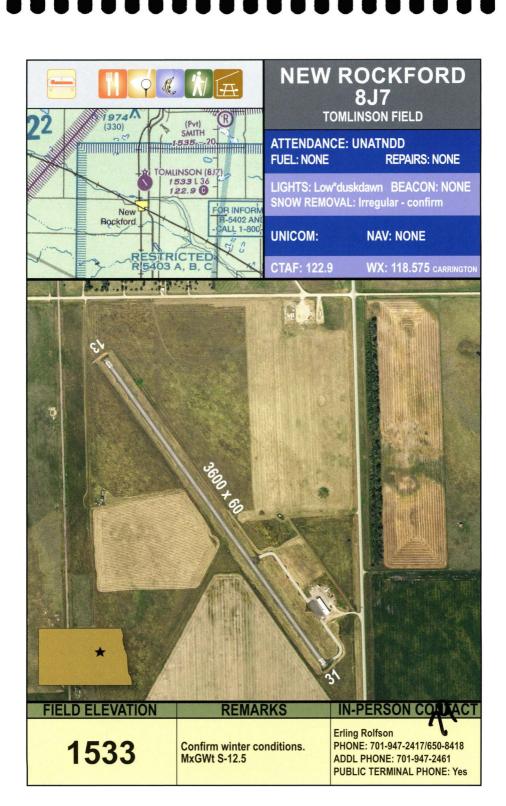


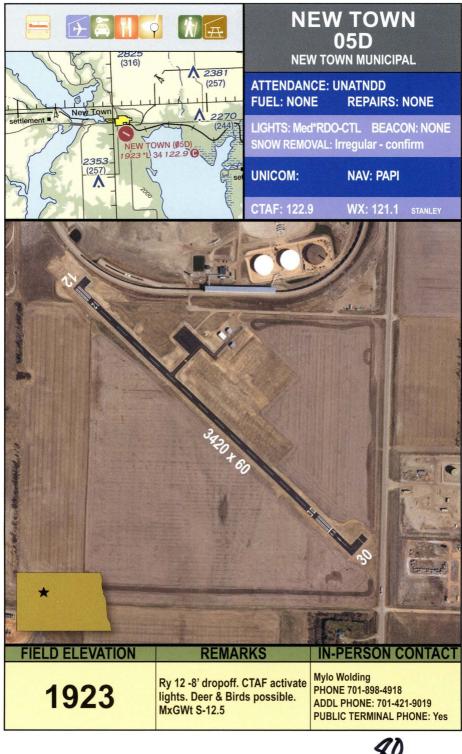




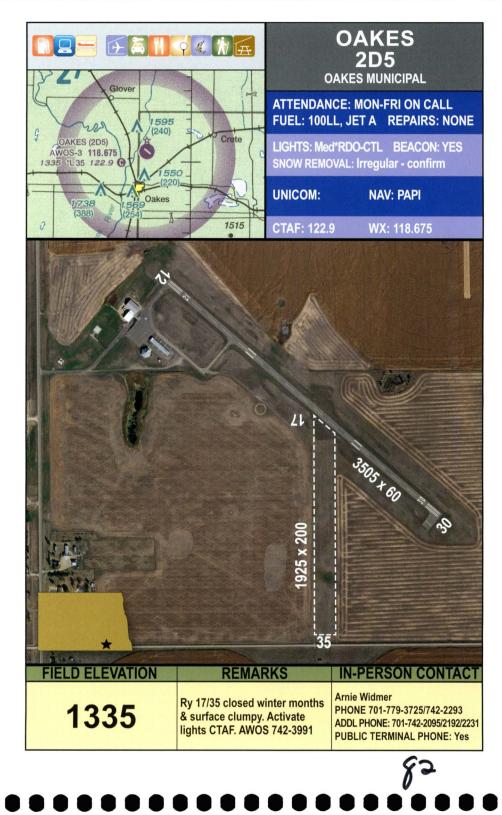


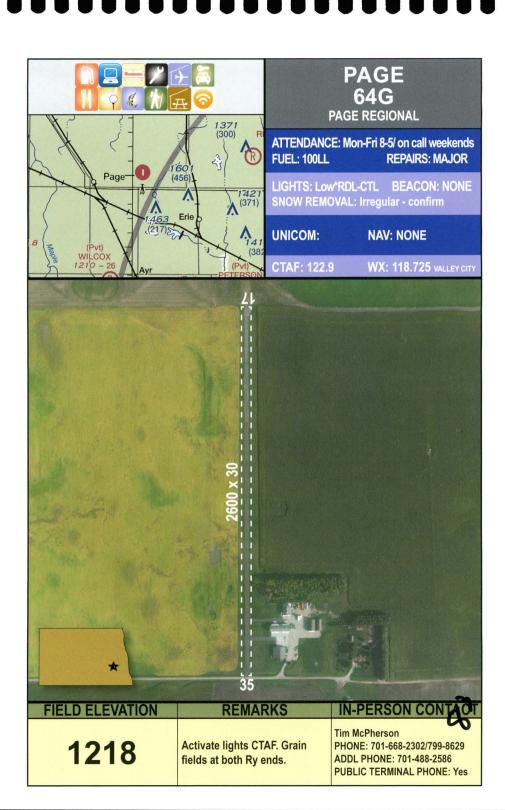


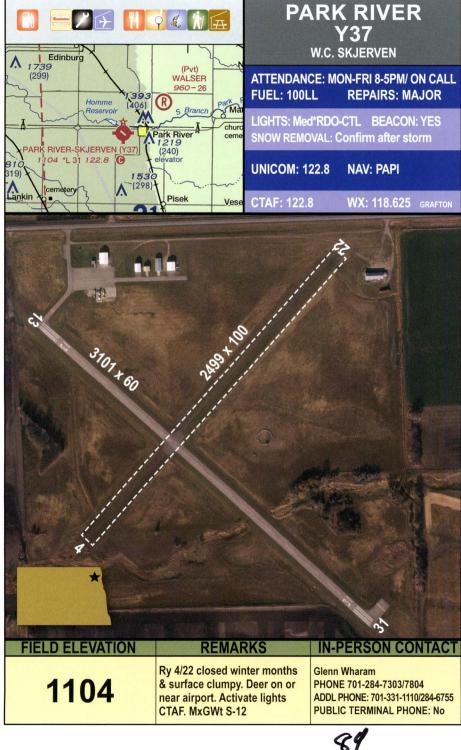


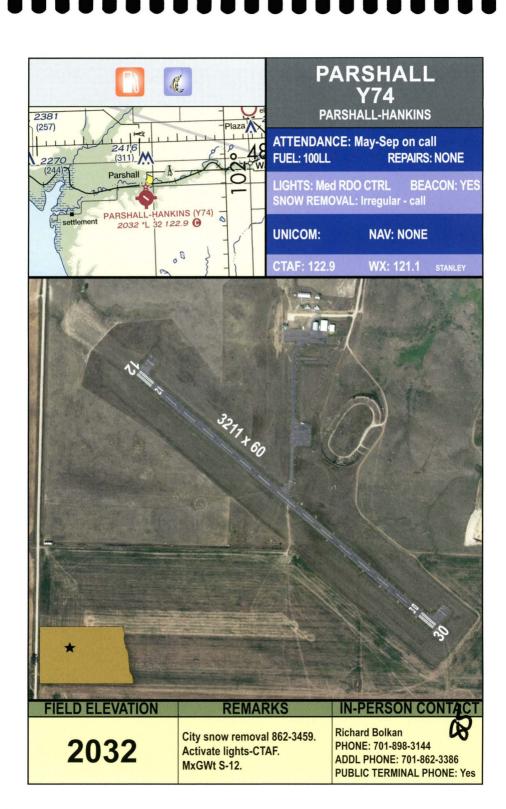


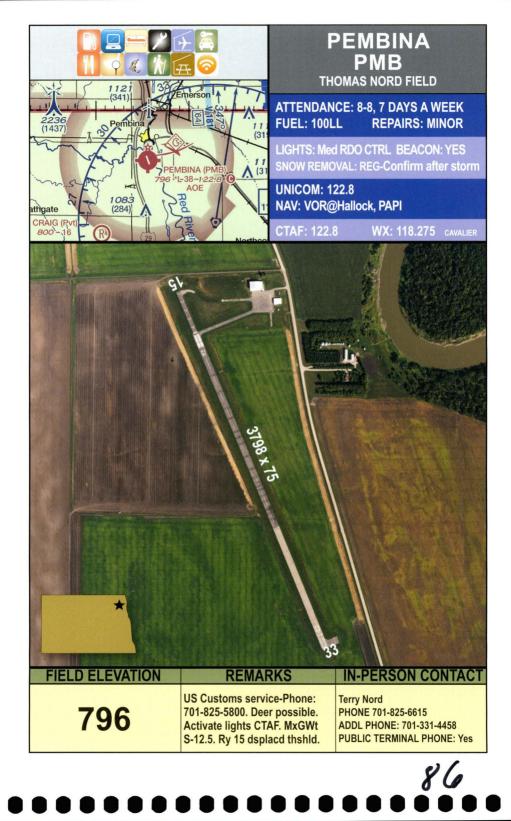


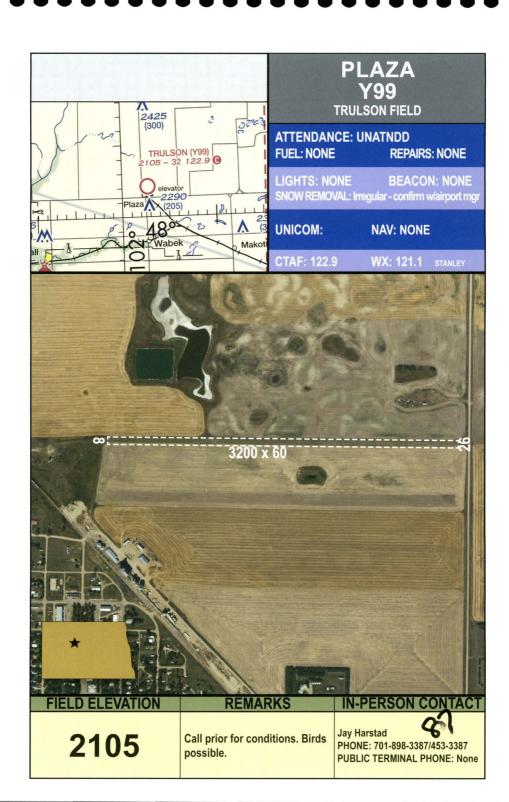


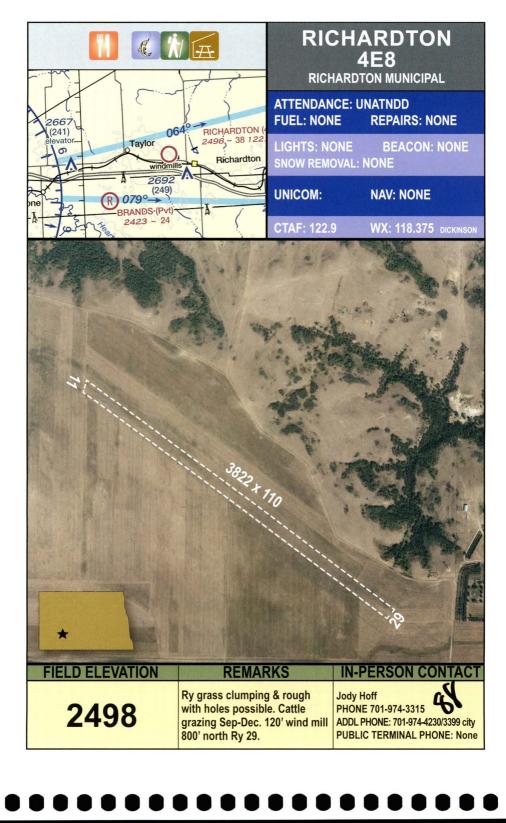


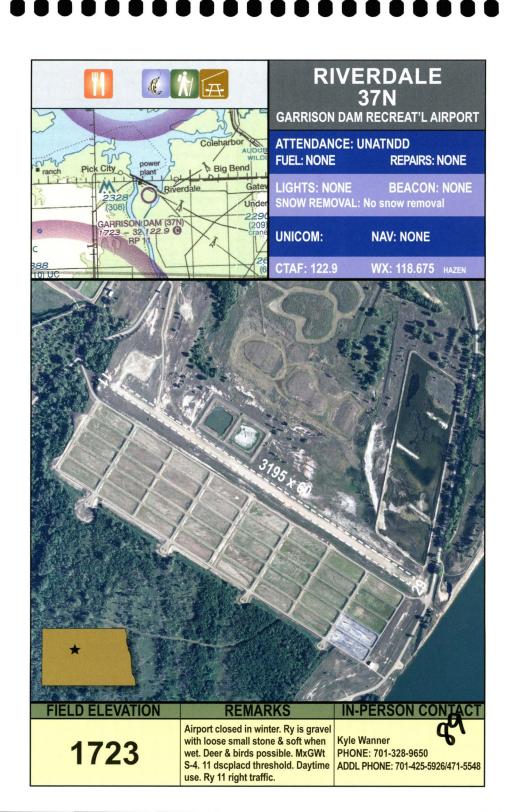




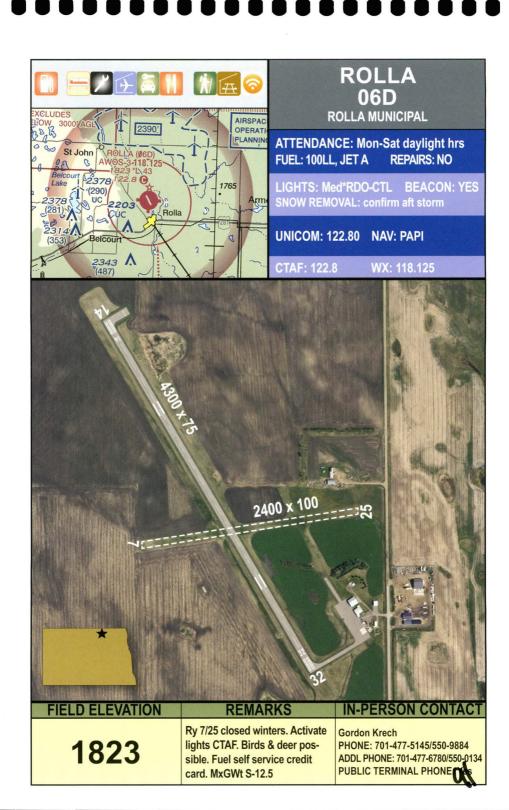


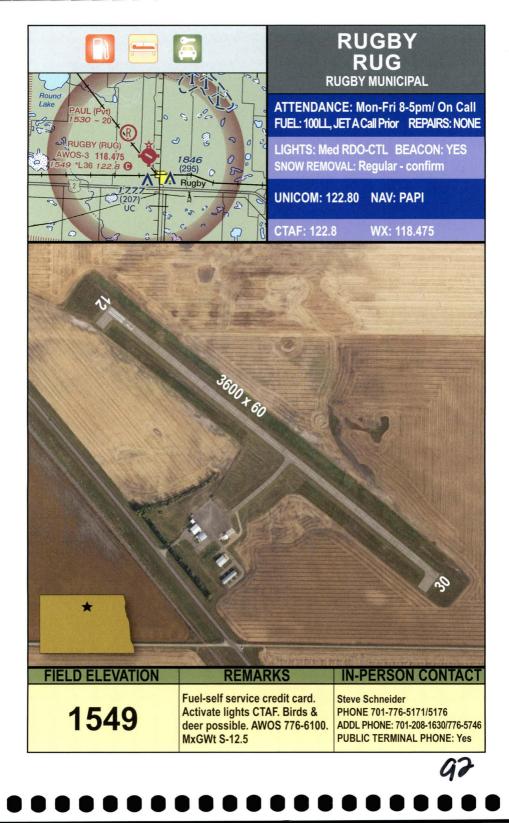














FIELD ELEVATION

REMARKS
Activate lights CTAF. Birds/deer

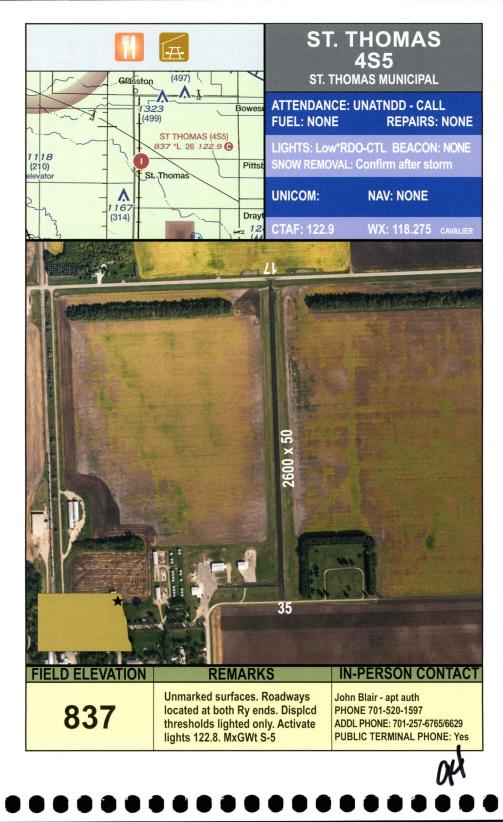
on or near airport. Self service

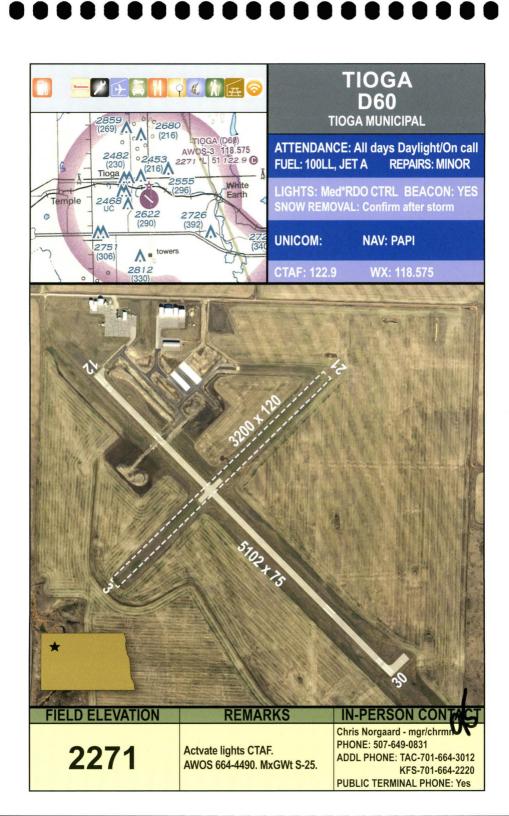
Jason Bromley
PHONE: 612-867-1849

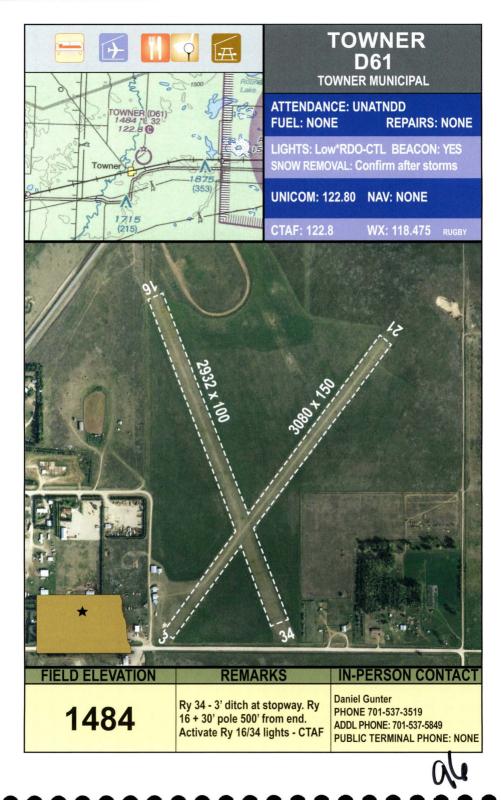
credit card fuel. MxGWt S-14. Road off end of ry. ADDL PHONE: 701-830-0474
PUBLIC TERMINAL PHONE: Yes

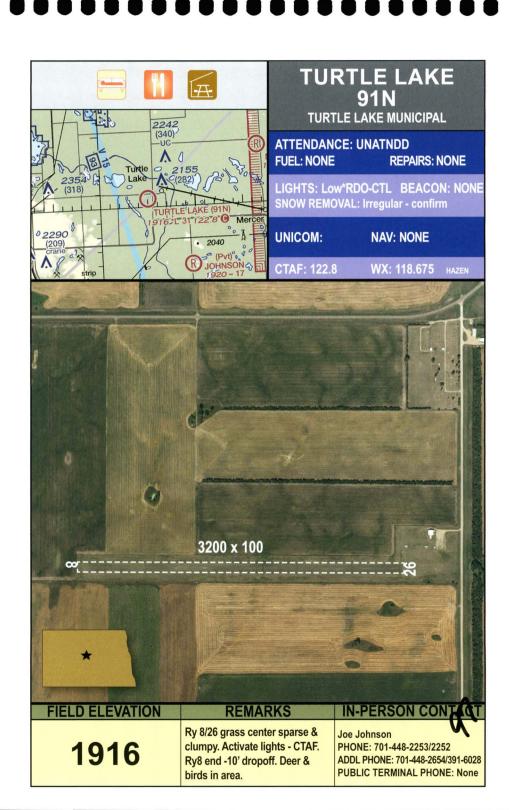
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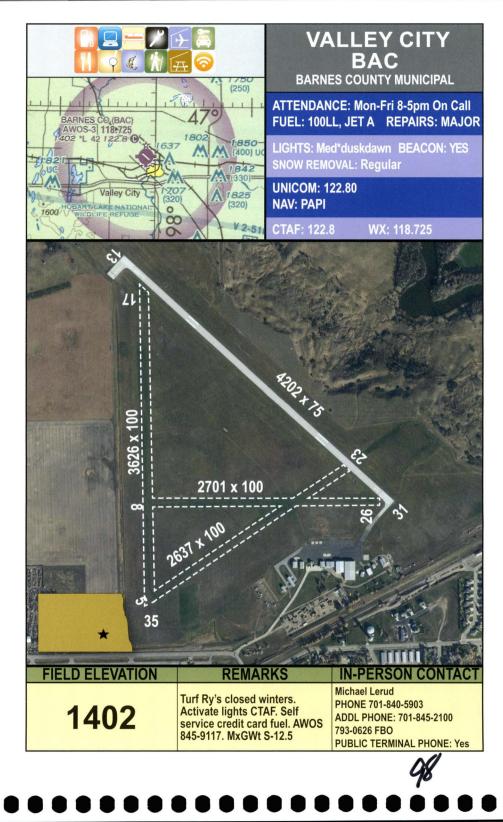
IN-PERSON CONTAC

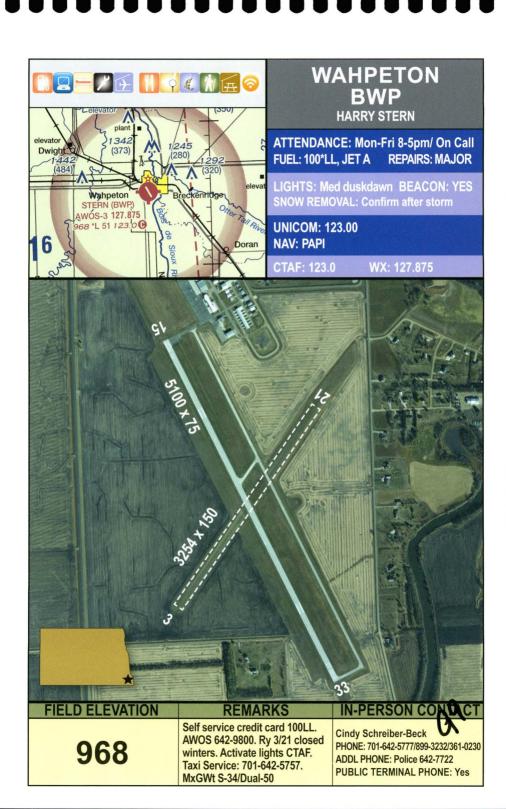


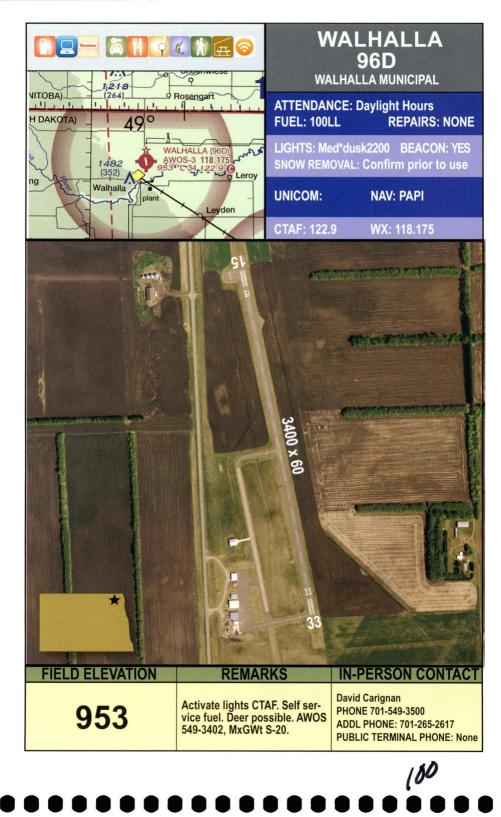






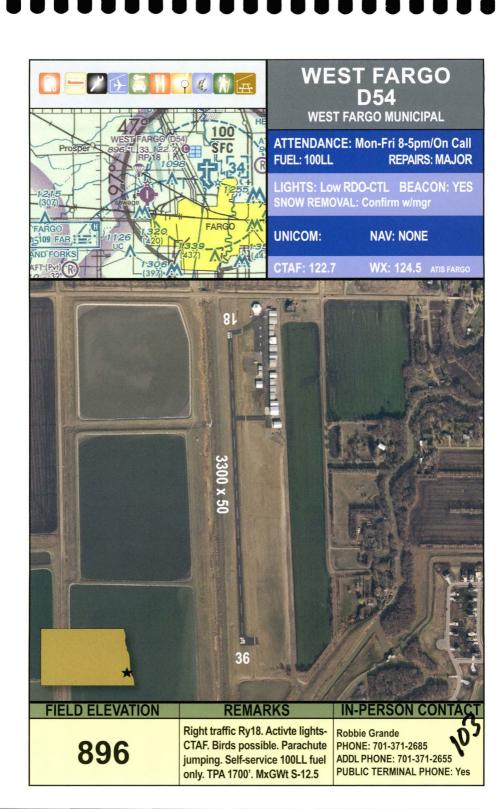




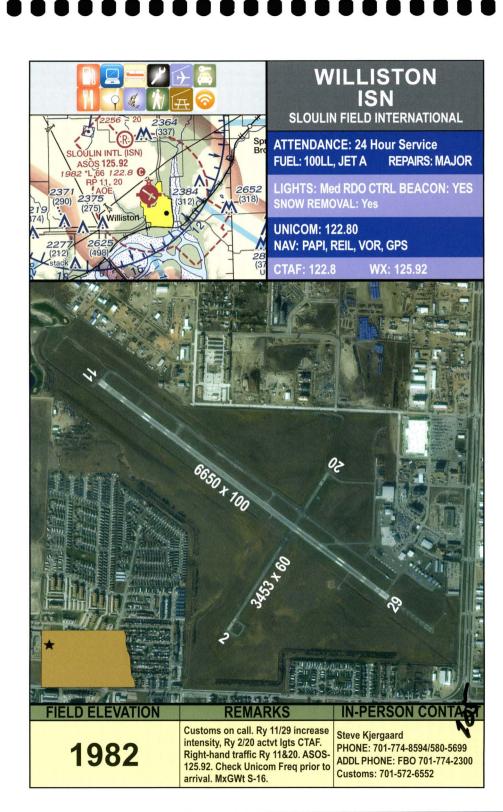
















METAR ABBREVIATIONS

ABBREVIATIONS

AOI Automated Observation without precipitation discriminator (rain/snow)
AO2 Automated Observation with precipitation discriminator (rain/snow)

AMD Amended Forecast (TAF)

BECMG Becoming (expected between 2-digit beginning hour and 2-digit ending hour)

BKN Broken

CLR Clear at or below 12,000 feet (AWOS/ASOS report)

COB Correction to the observation

FEW 1 or 2 octas (eighths) cloud coverage

FM From (4 digit beginning time in hours and minutes)

LDG Landing

M In temperature field means "minus" or below zero

M In RVR listing indicates visibility less than lowest reportable sensor value (e.g. M600)

NO Not available (e.g. SLPNO, RVRNO)

NSW No Significant Weather

OVC Overcast

P In RVR indicates visibility greater than highest reportable sensor value (e.g. P6000FT)

P6SM Visibility greater than 6 SM (TAF only)

PROB4O Probability 40 percent

R Runway (used in RVR measurement)

RMK Remark
RV/RWY Runway
SCT Scattered
SKC Sky Clear

SLP Sea Level Pressure (e.g., 1013 reported as 013)

SM Statute mile(s) SPECI Special Report

TEMPO Temporary changes expected (between 2-digit beginning hour and 2-digit ending hour)

TKOF Takeoff

T01760158, 10142, 20012 and 401120084 In Remarks-examples of temperature information

V Varies (wind direction and RVR)

VC Vicinity

VRB Variable wind direction when speed is less than or equal to 6 knots

VV Vertical Visibility

WS Wind shear (In TAFs, low level and not associated with convective activity)

DESCRIPTORS

BC	Patches	MI	Shallow
BL	Blowing	PR	Partial
DR	Low Drifting	SH	Showers
FZ	Supercooled/freezing	TS	Thunderstorm

WEATHER PHENOMENA

BR	Mist	PE	Ice Pellets
DS	Dust Storm	P0	Dust/Sand Whirls
DU	Widespread Dust	PY	Spray
DZ	Drizzle	RA	Rain
FC	Funnel Cloud	SA	Sand
FC	Tornado/Water Spout	SG	Snow Grains
FG	Fog	SN	Snow
FU	Smoke	SQ	Squall
GA	Hail	SS	Sandstorm
GS	Small Hail/Snow Pollets	LIP	Linknown Precipitatio

GS Small Hail/Snow Pellets UP Unknown Precipitation
HZ Haze (Automated Observations)

IC Ice Crystals VA Volcanic Ash

CLOUD TYPES

CB Cumulonimbus TCU Towering Cumulus

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				FI	_IGF	IT PLAN	AFSS	S 1-800-992	-7433
1. TYPE VFR IFR	2. AIRCRAFT IDENTIFICATI	ON	3. AIRCRAFT SPECIAL E	TYPE EQUIPMENT	4. TRUE AIRSPEED	5. DEPARTURE POINT	6. DEPART	TURE TIME ACTUAL (Z)	7. CRUISING ALTITUDE
DVFR KTS 5.ROUTE OF FLIGHT									
9.DESTINATION (Name of Airport and City) 10. EST TIME ENROUTE HOURS MINUTES 11. REMARKS									
12. FUEL ON BOARD 13. ALTERNATE AIRPORT HOURS MINUTES				NAME, ADDRESS & TELEPHONE TION CONTACT/TELEPHONE (O		T HOME BASE	15. NUMBER ABOARD		
16. COLOR OF AIRCRAFT									

X - NO TRANSPONDER.

T TRANSPONDER NO ALITIUDE ENCODING CAPABILITY.

1 TRANSPONDER WITH ALITIUDE ENCODING CAPABILITY.

D - DME, BUT NO TRANSPONDER, BUT NO ALITIUDE ENCODING CAPABILITY.

B - DME, AND TRANSPONDER, BUT NO ALITIUDE ENCODING CAPABILITY.

A - DME AND TRANSPONDER, BUT NO ALITIUDE ENCODING CAPABILITY.

M - TACAN ONLY, BUT NO TRANSPONDER.

M - TACAN ONLY AND TRANSPONDER WITH ALITIUDE ENCODING CAPABILITY.

C - RNAV AND TRANSPONDER, BUT NO ALITIUDE ENCODING CAPABILITY.

C - RNAV AND TRANSPONDER, BUT NO ALITIUDE ENCODING CAPABILITY.

R - RNAV BUT NO TRANSPONDER.

M - RNAV BUT NO TRANSPONDER.

G - GPS

.

NAUTICAL STATUTE

			FLIGHT L	OG			
DEPARTURE POINT	VOR	OR RADIAL DISTANCE			TIME		
1 01111	IDENT.	то	LEG	POINT	- POINT	TAKE OFF	SPEED
	FREQ.	FROM	REMAINING	CUMM	ULATIVE		
CHECK POINT						ETA	
						ATA	
				-			
				<u> </u>			
				-			
				+			
DECTINATION				-			
DESTINATION							
			TOTAL				
PREI	FLIGH	IT CHEC	K LIST	DATE			
EN ROUTE WE	ATHER	/ WEATHER	ADVISORIES				
DESTINATION	WEATH	ER			WINDS AL	_OFT	
ALTERNATE W	EATHER	3					
FORECASTS							
NOTAMS / AIRS	SPACE F	RESTRICTIO	DNS				

GUIDE FOR AIRFIELD SIGNS

SIGN and LOCATION

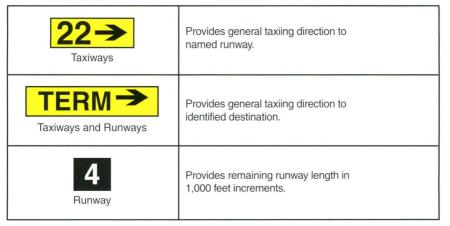
PILOT ACTION or SIGN PURPOSE

SIGN and LOCATION	PILOT ACTION OF SIGN PURPOSE
4-22	Controlled Airport - Hold unless ATC Clearance has been received.
On Taxiways at Intersection with a Runway	Uncontrolled Airport - Proceed when no traffic conflict exists.
4-22	Taxiing - Same action as above.
Runway / Runway Intersection	Taking Off or Landing - Disregard unless a "Land, Hold Short" clearance has been accepted.
4-APCH	Controlled Airport - Hold when instructed by ATC.
Taxiway in Runway Approach of Departure Area	Uncontrolled Airport - Proceed when no traffic conflict exists.
ILS Critical Area	Hold when approaches are being made with visibility less than 2 miles or ceiling less than 800 feet.
Areas where Aircraft are Forbidden to Enter	Do not enter.
Taxiway	Identifies taxiway on which aircraft is positioned.
22 Runway	Identifies runway on which aircraft is positioned.
Edge of Protected Airway for Runway	These signs are used on controlled airports to identify the boundary of the runway protected area. It is intended that pilots exiting this area would use this sign as a guide to judge when the aircraft is clear of the protected area.
Edge of ILS Critical Area	These signs are used on controlled airports to identify the boundary of the LS critical area. It is intended that pilots exiting this area would use this sign as a guide to judge when the aircraft is clear of the ILS critical area.
B → Taxiways and Runway	On Taxiways - Provides direction to turn at next intersection to maneuver aircraft onto named runway.

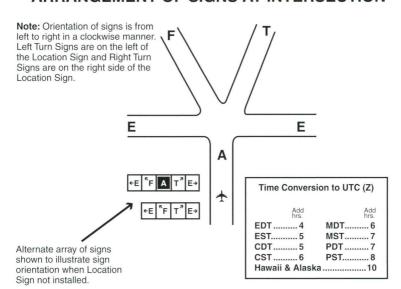
GUIDE FOR AIRFIELD SIGNS

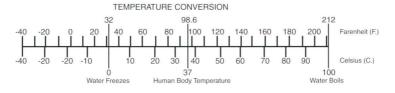
SIGN and LOCATION

PILOT ACTION or SIGN PURPOSE



ARRANGEMENT OF SIGNS AT INTERSECTION







INTERCEPTING SIGNALS

Signals initiated by intercepting aircraft and responses by intercepted aircraft (as set forth in ICAO Annex 2-Appendix A, 2.1)

Series	Intercepting Aircraft Signals	Meaning	Intercepted Aircraft Responds	Meaning
1	Day - Rocking wings from a position slightly above and ahead of, and normally to the left of, the intercepted aircraft and, after acknowledgement, a slow level turn, normally to the left, on to the desired heading.	You have been intercepted! Follow me.	Aeroplanes: Day - Rocking wings and following.	Understood, will comply.
	Night - Same and, in addition, flashing navigational lights at irregular intervals. Note 1 - Meteorological conditions or terrain may require the intercepting aircraft to take up a position slightly above and ahead of, and to the right of, the intercepted aircraft and to make the subsequent turn to the right.		Night - Same and, in addition, flashing navigational lights at regular intervals.	
	Note 2 - If the intercept aircraft is not able to keep pace with the intercepting aircraft, the latter is expected to fly a series of race-track patterns and to rock its wings each time it passes the intercepted aircraft.		Helicopters: Day or Night-Rocking Aircraft, flashing navigational lights at irregular intervals and following.	
2	Day or Night - An abrupt break-away maneuver from the intercepted aircraft consisting of a climbing turn of 90 degrees or more without crossing the line of flight of the intercepted aircraft.	You may proceed.	Aeroplanes: Day or Night - Rocking Wings. Helicopters: Day or Night - Rocking Aircraft.	Understood, will comply.
3	Day - Circling aerodrome, lowering landing gear and over-flying runway in direction of landing or, if the intercepted aircraft is a helicopter, over-flying the helicopter landing area. Night - Same and, in addition, showing steady landing lights.	Land at this aerodrome.	Aeroplanes: Day - Lowering landing gear, following the intercepting aircraft and, if after over-flying the runway landing is considered safe, proceed to land. Night - Same and, in addition, showing steady lights (if carried). Helicopters: Day or Night - Follow the intercepted aircraft and proceed to land, showing a steady landing light (if carried).	Understood, will comply.
4	Day or Night - Raising landing gear (if fitted) and flashing landing lights while passing over runway in use or helicopter landing area at a height exceeding 2,000 ft (in case of helicopter, at a height exceeding 170 ft, but not exceeding 330 ft) above the aerodrome level, and continuing to circle runway in use or helicopter landing area. If unable to flash landing lights, flash any other lights available.	Aerodrome you have designated is inadequate.	Day or Night - If it is desired that the intercepted aircraft follow the intercepting aircraft to an alternate aerodrome, the intercepting aircraft raises its landing gear (if fitted) and uses the Series 1 signals prescribed for intercepting aircraft. It is decided to release the intercepted craft, the intercepting aircraft uses the Series 2 signals prescribed for intercepting aircraft.	Understood, follow me. Understood, you may proceed.
5	Day or Nights - Regular switching on and off of all available lights but in such a manner as to be distinct from flashing lights.	Cannot comply.	Day or Night - Use Series 2 signals prescribed for intercepting aircraft.	Understood
6	Day or Nights - Irregular flashing of all available lights.	In distress.	Day or Night - Use Series 2 signals prescribed for intercepting aircraft.	Understood



Light Gun Signals

Color and Type of Signal	Movement of Vehicles, Equipment and Personnel	Aircraft on the Ground	Aircraft in Flight
Steady Green	Cleared to Cross, Proceed or Go	Cleared for Take-off	Cleared to Land
Flashing Green	Not Applicable	Cleared for Taxi	Return for Landing, to be Followed by Steady Green at the Proper Time
Steady Red	STOP	STOP	Give Way to Other Aircraft and Continue Circling
Flashing Red	Clear the Taxiway/Runway	Taxi Clear of the Runway in Use.	Airport Unsafe, Do not Land
Flashing White	Return to Starting Point on Airport	Return to Starting Point on Airport	Not Applicable
Alternating Red and Green	Exercise Extreme Caution	Exercise Extreme Caution	Exercise Extreme Caution

10 Ways To Help Prevent

Runway Incursions

- **1** See The "Big Picture" Monitor both ground and tower communications when possible.
- **2** Transmit Clearly Make your instructions and read-backs complete and easy to understand.
- **3** Listen Carefully Listen to your clearance. Listen to what you read back. Do not let communications become automatic.
- 4 Copy Clearances
 Clearances can change.
 Keep a note pad and copy
 your clearance. If needed,
 refer to your notes.
- **5** Situational Awareness Know your location. If unfamiliar with an airport keep a current airport diagram available for easy reference.

- 6 Admit When Lost
 If you get lost on an airport,
 ask ATC for help. Better to
 damage your pride than your
 airplane.
- 7 Sterile Cockpit
 Maintain a sterile cockpit
 until reaching cruising altitude.
 Explain to your passengers
 that talking should be kept to
 a minimum.
- Understand Signs, Lights And Markings Keep current with airport signs, lights and markings. Know what they mean and what action to take.
- **9** Never Assume
 Do not take clearances for granted. Look both ways before entering or crossing taxiways and runways.
- **10** Follow Procedures Establish safe procedures for airport operations. Then follow them.

For more information see the following: www.faa.gov/airports/runway-safety

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AIRPORT IDENTIFIERS

AIRPORT IDENTIFIERS						
IDENT.	LOCATION	CTAF	IDENT.	LOCATION	CTAF	
1A2	Arthur	122.9*	D55	Langdon	122.8*	
ASY	Ashley	122.9*	2L1	Larimore	122.9	
20U	Beach	122.8*	D31	Leeds	122.8*	
95D	Beulah	122.9*	4N4	Lidgerwood	122.9	
BIS	Bismarck	118.3* -TWR	7L2	Linton	122.9*	
D09	Bottineau	122,8*	6L3	Lisbon	122.9	
5B4	Bowbells	122.9	7G2	McClusky	122.9*	
BWW	Bowman	122.8*	8M6	McVille	122.9	
9D7	Cando	122.9*	6D3	Maddock	122.9	
46D	Carrington	122.9*	Y19	Mandan	122.8*	
5N8	Casselton	122.8*	D56	Mayville	122.8*	
2C8	Cavalier	122.8*	4R6	Milnor	122.9	
D49	Columbus	122.9	MOT	Minot	118.2* -TWF	
S32	Cooperstown	122.9*	D06	Minto	122.9	
D50	Crosby	122.9*	HBC	Mohall	122.8*	
DVL	Devils Lake	122.8*	3P3	Mott	122.9*	
DIK	Dickinson	123.0*	5B5	Napoleon	122.9*	
D29	Drayton	122.9*	8J7	New Rockford	122.9	
S28	Dunseith	122.8	05D	New Town	122.9*	
51D	Edgeley	122.8*	4V4	Northwood	122.8*	
Y71	Elgin	122.9*	2D5	Oakes	122.9*	
4E7	Ellendale	122.9*	64G	Page Regional	122.9	
5N4	Enderlin	122.9*	Y37	Park River	122.8*	
FAR	Fargo	133.8 - TWR	Y74	Parshall	122.8*	
D24	Fessenden	122.9*	PMB	Pembina	122.8*	
Y27	Fort Yates	122.9	Y99	Plaza	122.9	
9G9	Gackle	122.9	4E8	Richardton	122.9	
D05	Garrison	122.9*	37N	Riverdale	122.9	
D57	Glen Ullin	122.9*	2H9	Rolette	122.8*	
GAF	Grafton	122.8*	06D	Rolla	122.8*	
GFK	Grand Forks	118.4*TWR	RUG	Rugby	122.8*	
GWR	Gwinner	122.7*	4S5	St. Thomas	122.9*	
5H4	Harvey	122.8*	08D	Stanley	122.9*	
6H8	Hazelton	122.9	D60	Tioga	122.9*	
HZE	Hazen	122.8*	D61	Towner	122.8*	
HEI	Hettinger	122.8*	91N	Turtle Lake	122.8*	
3H4	Hillsboro	122.9*	BAC	Valley City	122.8*	
JMS	Jamestown	123.0*	BWP	Wahpeton	123.0*	
7K5	Kenmare	122.8*	96D	Walhalla	122.9*	
9Y1	Killdeer	122.9*	5C8	Washburn	122.9*	
K74	Kindred	122.9*	S25	Watford City	122.8*	
5K9	Kulm	122.9	D54	West Fargo	122.7*	
5L0	Lakota	122.9*	D64	Westhope	122.7	
	∟anula	122.3	D04	* vestriope	122.0	
4F9	LaMoure	122.9*	ISN	Williston	122.8*	

^{* -} Aircraft Radio Controlled Airport Lighting Activation and/or increase intensity level through 3, 5, or 7 microphone clics.





State of North Dakota

Doug Burgum

Welcome to the Legendary Skies of North Dakota!



As you plan your business or vacation flight, we invite you to take a scenic journey through our state. Discover the stunning beauty of our diverse landscape and the abundant recreational opportunities that make North Dakota an exceptional destination to include on your flight plan. Our state offers many great adventures, breathtaking natural wonders and exciting events for residents and visitors alike.

North Dakota's aviation industry enjoys a well-earned reputation as a world leader in cutting-edge technology and research. The John D. Odegard School of Aerospace Sciences at the University of North Dakota in Grand Forks operates the largest civilian training fleet in the world. The Northern Plains Unmanned Aerial Systems (UAS) Test Site continues to lead the country in UAS research and development as we work toward a solution to integrating UAS into the national airspace system.

As North Dakota continues efforts to strengthen its position as an aerospace industry leader, our state remains committed to fostering an innovative and nurturing environment where the spirit of entrepreneurial ideas can take flight.

I hope you enjoy your time here and create lasting memories as you experience all that North Dakota has to offer.

Sincerely,

Doug Burgum Governor

AND THE COMMISSION OF THE PROPERTY OF THE PROP

Commissioners

Cindy Schreiber-Beck, Chair, Wahpeton Dr. Kim Kenville, Vice-Chair, Grand Forks Maurice Cook, Bismarck Jay B. Lindquist, Hettinger Warren Pietsch, Minot

Mission

To serve the public by providing economic and technical assistance for the aviation community while ensuring the safe and cost-effective advancement of aviation in North Dakota.

march 3, 2017

582006

allachment C

AAND

Airport Association of North Dakota

Matthew Remynse - President Anthony Dudas - Vice President
Samuel Seafeldt - Sec. / Treasurer
PO Box 1560 Jamestown, North Dakota 58402-1560
(701) 355-1808

March 3, 2017

RE: Testimony to House Appropriations –Government Operations Division on SB 2006 (Aeronautics Budget)

Chairman Brandenburg and members of the committee,

I am Matthew Remynse, the President of the Airport Association of North Dakota (AAND). I want to thank you for the opportunity to speak here today and thank you for the past support of airports. AAND is the professional organization for North Dakota Airports and it serves to promote airports, aviation, and safety across North Dakota. Among its members are all eight commercial service airports, 70 of 81 general aviation airports and aviation engineering and planning firms. I'm here today on behalf of the association to express our support of SB 2006 and would respectfully request the Appropriations Committee consider an additional one-time appropriation of \$9 million in grants for the North Dakota Aeronautics Commission (NDAC).

Airports are a valuable asset for North Dakota's economy. North Dakota's 89 airports generate an economic impact of \$1.56 billion annually. This is an impressive 47% increase from 2010 when airports generated \$1.06 billion annually. Airports play a vital role in the state and touch all major industries, including agriculture, manufacturing, healthcare, tourism, energy, and technology. A great example I like to share is that many rural communities receive the same type of healthcare that is in the major cities because doctors fly to the rural communities. This eases the burden for rural North Dakota to get great health care in their communities, and it's because of aviation and airports.

North Dakota's airports grew at an unprecedented rate in the first part of this decade surpassing many of the forecasted estimates. Unfortunately, airports were affected by the economic downturn just as many North Dakota industries were. Airports have leveled off to an extent, and are now operating at a more manageable pace than they experienced during the boom years. Although airports have leveled off, their needs are still there and higher than ever because the activity never returned to pre boom levels. Many of the western ND airports were not built for the traffic they saw during the boom, which is now the new normal. Regional jets at the Dickinson and Williston airports are a great example.

Currently the North Dakota Aeronautic Commission's ability to meet the needs of airports is underfunded. Without additional funding airport infrastructure projects will be delayed. Delaying vital projects will hinder a vital driver of the state's economic development, and quality of life. Additional funding is needed not only to support anticipated growth but also to repair facilities that deteriorated at a much faster rate than expected due to the economic surge.

The Aeronautics Commission works hand in hand with the Federal Aviation

Administration (FAA), and airports regarding grant funding. Federal grant funding can cover up
to 90% of eligible projects, but with such a high demand of large projects in the state the FAA is
not always able to provide a 90% cost share. With the lack of both state and federal funding,
airports are making the difficult decision of going into debt to complete their projects. Additional
state funding for airport grants would assure that crucial projects are being completed on time
and would reduce the amount of debt airports would have to take on. Also, when additional state
funding is appropriated it typically generates more federal dollars.

In the upcoming biennium there are several airports throughout the state with large capital projects:

- Bismarck Airport has a main runway reconstruction project that will total \$70 million when complete. The City of Bismarck is funding \$30 million dollars of this project because of limited Federal funding.
- Williston's new airport broke ground last fall and is scheduled to be completed in 2019.
- The Dickinson and Grand Forks airports are starting to develop runway reconstruction projects
- Several general aviation airports are preparing large projects too: Northwood, Ashely,
 Hillsboro, and Watford City will have major runway projects this biennium.
- In addition to these major projects, airports must maintain their capital investments, and
 there are several projects that are not included on the capital improvement plans because
 they are ineligible for grant funding and must be funded solely by the airport.

I want to point out that AAND and airports are working to create to create language that would allow airports and airport authorities to be eligible to receive mills from a city or county's capital projects levy. This would provide additional flexibility to airports when developing budgets for capital projects.

I have focused mainly on the NDAC's grant funding program and how that is vital to airports but I would also like to highlight the other services the NDAC provides to support airports and the aviation community. The NDAC has a fantastic education program that is drawing young adults into aviation. The NDAC helps general aviation airports with developing their capital improvement plans and conducting safety inspections. The studies that the NDAC completes are an extremely useful tools for airports. A Pavement Condition Index Study is a federal requirement for each airport to receive federal funding. The NDAC puts this study together for all airports. This a is large undertaking and Mr. Wanner and his staff do an amazing

job managing that study and assuring that there is a useful end product for airports. Overall, the NDAC provide an enormous amount of support to airports and aviation and that should not be overlooked when considering their budget.

In, conclusion, AAND fully understands that the priority of the Legislature and Governor is to reduce spending and that there will be several industries vying for the funding available. I ask that you please do not look at airport infrastructure as spending but rather a sound investment in a vital driver of the State's economy. As you work through the State's budget AAND would greatly appreciate your consideration for an additional one-time funding of \$9 million for airport grants. Thank you for allowing me the opportunity to testify on SB 2006. I will take any questions at this time.

Respectfully,

Matthew Remynse President, AAND SB2006

attachment &

Testimony of Gregory B. Haug Airport Director, Bismarck Airport

Senate Bill 2006

House Appropriations – Government Operations Division 65th North Dakota Legislative Assembly March 3, 2017

Chairman Delzer and Members of the committee,

My Name is Greg Haug and I am the director of the Bismarck Airport and I will be providing testimony regarding Senate Bill 2006 on behalf of the Bismarck Airport and the City of Bismarck.

First I would like to say a few words about the Bismarck Airport and provide the committee a brief update on some recent activities and milestones.

Bismarck works hard to make improvements to the air service offered and our newest and 5th airline to enter the market was American Airlines in October of 2014. American provides daily service to Dallas/Fort Worth and Chicago and has done well in their first

two years of service. We have also been fortunate to retain Frontier Airlines and are now the only location in ND that Frontier still provides their ultra-low cost service to. Bismarck Airports passenger traffic has set a new record every year for the last seven (7) years, including 2016. Yes, even with the downturn in the oil activity the Bismarck Airport is still booming with passenger traffic! No doubt the oil activity out west impacted the Bismarck Airport over the last several years but Bismarck's economy is continuing to do well which continues to add more passenger demand at the airport.

The Airport has had to make some incremental improvements over the last several years in order to accommodate the needs of our passengers and the increase in demand. A few of these improvements include parking lot expansions, an additional passenger boarding bridge, a car rental wash facility and expansion of the security checkpoint, not only once, but twice, and we now have three (3) x-ray lanes to speed up passenger throughput. These have all been good projects, they have helped us keep pace with the passenger demand and they have been financially doable. But now we have an 800 Lb. gorilla on our back, it's called the runway 13/31 reconstruction **project.** This is by far the most expensive and complex project I have been involved with in my 30 year career in airport management. When it's done we will get a nice smooth strip of concrete nearly two (2) miles long that people forget about. It's not as sexy as building a shiny new terminal that people can admire. It's just expected that every airport will have a safe runway for aircraft to use. In Bismarck's case, it just happens to be the primary runway, the longest, widest and strongest one and the most expensive one.

Here's a quick update on Bismarck's main runway reconstruction project:

- Our runway pavement dates back to the 1950's, 60's, & 70's.
- The pavement is rapidly deteriorating according to the state sponsored pavement condition study.
- We have spent the last 3 years preparing for the start of this project.
- Our engineer's current estimated construction costs are 70 million dollars.
- Construction is planned over the next 3 years.
- We have awarded \$24 million dollars in bids for phase one.
- Construction starts in May 2017.

On the funding side FAA has the ability to fund up to 90% of the cost but has only committed 53% or 37 million. That leaves 33 million to the state and local levels. The NDAC generally funds up to 5% of regular airport projects so that would leave approximately 30 million to the City & Airport.

The airport plans to use all its cash reserves plus issue a 10 to 15-million-dollar bond and then lean on the City of Bismarck's cash reserves for the remainder.

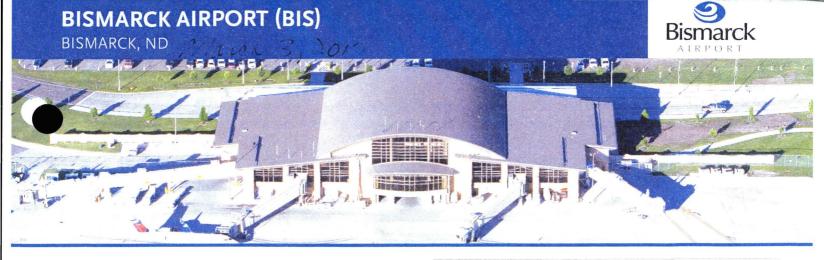
We have no choice the work must be done!

On behalf of the City of Bismarck and the Bismarck Airport, we support Senate Bill 2006 and the Aeronautics Commission and all their programs.

On behalf of the City of Bismarck, the Bismarck Airport, and the hundreds of thousands of North Dakota Passengers, Business folks, & Visitors that use the Airport annually, we also request that this committee review the Aeronautics Commission's original Budget

Request and reconsider the 9 million dollars of the one-time funding that was originally requested by the Aeronautics Commission. If allocated by the legislature, a portion of those funds could be used by the Aeronautics Commission to help Bismarck fund this enormous and very important project at the capital city airport.

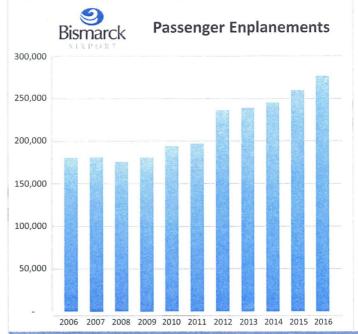
Thank you for allowing me to address the committee, I would be happy to answer any questions.



BISMARCK AIRPORT (BIS)

The Bismarck Airport plays a vital economic role for the City of Bismarck and the surrounding region. The 2015 Economic Impact Study for North Dakota Airports, conducted by the North Dakota Aeronautics Commission, indicates the Bismarck Airport brings 110,342 visitors to North Dakota annually, which contributes an estimated \$68,838,160 each year to the city of Bismarck and surrounding region on items such as food, local ground transportation, hotels, shopping and entertainment. In addition to contributing to local economy, the Bismarck Airport supports 2,216 jobs and contributes more than \$10 million in annual state and local tax revenues.

The economic impact of the Bismarck Airport continues to grow as existing airlines have expanded service and new airlines have peen added in recent years. Expansions include new service rom Frontier Airlines in May 2012 and Allegiant adding a new route to Orlando, FL in November 2013. American Airlines became the newest airline to serve the Bismarck area when they began offering service to Dallas/Fort Worth and Chicago in October 2014. The Bismarck Airport recorded a 4.4 percent increase in enplanements in 2016.



The Bismarck Airport has experienced steady growth in enplanements over the last 8 years. Despite oil market volatility, Bismarck Airport experienced 4.4 percent growth in enplanements in 2016.

Pavement Deterioration 1999 1957 Differential Pavement Movement 1976 Years Indicate last major reconstruction

- Portions of the runway are more than 60 years old

- Varying pavement sections
 Differential pavement movements
 Declining pavement condition index ratings (2016 NDAC PCI Study)

AIRPORT NEEDS

Due to the age and increased utilization, primary Runway 13-31 pavement has been deteriorating at an increased rate over the past several years. Runway 13-31 pavement is showing significant distress and in many areas the pavement is popping out causing foreign object debris (FOD) and maintenance issues. Runway 13-31 does not meet current design standards and preliminary work shows the runway profile elevation needs to be raised by more than four feet in areas to meet Federal Aviation Administration (FAA) standards. The existing runway areas drain poorly and are highly susceptible to frost heaves. Airfield drainage improvements are necessary to improve both surface flow and eliminate subsurface moisture under the pavement. Bismarck Airport's primary runway was constructed and reconstructed over a number of years ranging from 1952 to 1999. Sections of the existing runway have been in existence for more than 64 years with the support of rehabilitation projects. The map to the left highlights key issues.

SB 2006 (I

attachment E

March 3,2017

BISMARCK AIRPORT (BIS)

BISMARCK, ND



FUNDING NEEDS

To sustain air carrier operations, it is necessary to reconstruct Runway 13-31 at an estimated cost of \$70 million. Due to the significant cost to complete the project, financial assistance from the FAA and state of North Dakota is critical to complete improvements.



ANTICIPATED FUNDING NEEDS:

TOTAL PROJECT COST: \$70M

Federal* \$37M STATE/LOCAL**
\$33M

- * Estimated federal participation
- ** Local participation contingent on state participation

ESTIMATED RECONSTRUCTION PROJECT TIMELINE



FORTHCOMING AIRPORT NEEDS

In addition to reconstruction of the primary runway, the Bismarck Airport has two additional critical projects to complete immediately after the primary runway reconstruction project. The projects include rehabilitating Runway 3-21 and removing known wildlife attractants at the airport. Total costs are estimated to be in excess of \$41 million.



March 3,2017

SB2006

attachment F

Subject: SB 2006

March 3, 2017

To: Appropriation Committee Members

From: Rodney Schaaf, Bowman Regional Airport Board Chairman

Subject: Proposed North Dakota Aeronautics Commission Budget

Representation: North Dakota General Aviation airports

You will hear a lot about the "Willistons, Bismarcks, Dickinsons, Minots" concerning their airport projects. Rightfully so, but I am here today to represent the small general aviation airports, (the little guys), and to show our support for the Aeronautics Commission's proposed budget.

- 1- Bowman Regional is 1 of 81 small airports in North Dakota. Our new airport opened in May, 2015. It was a 10 year project from scratch to dedication. The last totally new constructed airport was in 1985 at West Fargo.
- 2- Primary services provided include MediVac ops, visiting Doctors to satellite clinics, Eye in the Sky for rural firefighter ops, Game and Fish Department aerial surveys, Weather Modification ops, oil and gas company ops, predator control, and weather radar ops. Similar services, as with other small airports, include fuel and maintenance, flight instruction, seasonal bird and big game hunting ops, crop spraying, corporate, transient and local flight operations.
- 3- In the "perfect world" of airport construction projects, upgrades, and funding resources, the FAA cost shares 90%- the State 5%- and local 5%.

- 4- The Bowman Regional Airport project costs= see attached Costs page 17.7 m total, FAA 68%- 12 m, State 18%- 3.1 m, Local 14%- 2.5m
- 5- In conclusion, our project, along with other small airports, could NOT be completed without the State Aeronautics Commissions assistance (above and beyond). We urge you to consider and support the Aeronautics Commission proposed budget and if additional funds may be available, please consider the aviation project needs for the 89 North Dakota airports

THANK YOU

Costs - New Airport 8-15-16

2012/2013 Improvements (Grading & dirt work)	<u>Total</u> \$ 4,443,794.00	Federal \$ 3,998,627.00	<u>State</u> \$ 221,839.00	<u>Local</u> \$ 223,327.00
2013/2014 Improvements (Surfacing & Electrical)	\$ 8,904,289.00	\$ 5,749,226.00	\$2,589,523.00	\$ 565,540.00
2014/2015 Improvements (Terminal/SRE & Fencing)	\$ 2,777,036.00	\$ 2,294,368.00	\$ 124,709.00	\$ 357,959.00
2014/2015 Improvements (Fueling Facility)	\$ 425,144.00	\$ -	\$ 212,141.00	\$ 213,003.00
2014/2015 Improvements (T-Hangars)	\$ 755,033.00	\$ -	\$ -	\$ 755,033.00
2015 Improvements	\$ 437,299.00	\$	\$	\$ 437,299.00

Totals

\$17,742,595.00 \$12,042,221.00 \$3,148,212.00 \$2,552,161.00 1870 1870