

# Montana and the Sky

Montana Department of Transportation

Aeronautics Division

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March 2020

## Montana Aeronautics Board Awards Funding for FY 2021

On January 16, 2020, the Montana Aeronautics Board met to award \$3,650,000 in loans and grants to various Montana airports as part of its annual loan and grant program. This is significantly higher than previous years due to the passing of House Bill 661 (HB661) in the 2019 Legislative session. HB661 increased the funding for the grant program by increasing the fuel tax on fuel sold to commercial and general aviation aircraft in Montana from \$0.04/gallon to \$ 0.05/gallon. Additionally, the bill repealed the \$0.02/gallon rebate to scheduled passenger carrying airlines.

There is \$3.3 million available in grants and \$350,000 in loans for disbursement this year for aviation projects around the state. There was only \$270,000 available for grants last year and the most available for grants in the last ten years was \$435,000. The Board awarded funds for 102 out of a total of 108 different project requests across 34 Montana public airports including federally and non-federally funded projects. This will provide much needed improvements to airport infrastructure in Montana.

Most of the money awarded in grants and loans each year goes to leverage 90/10 Federal (FAA) match dollars for airport construction projects, but there is usually a significant percentage awarded for nonfederal airport projects as well. Applications for loans and grants are open from July 1<sup>st</sup> through November 15<sup>th</sup> each year. The money is typically awarded in January of the following year and the funds become available at the beginning of the state's next fiscal year, July 1.

The nine members of the Montana Aeronautics Board (see page 2 for a list of Board Members) have sole responsibility for awarding loan and grant funds. This program is open to all public-use airports except for federally owned or privately owned airports and the money can be used for any qualifying airport or aviation related project. For more information regarding the program, contact Karen Speeg at (406) 444-9569 or Wade Cebulski at (406) 444-9581.

The projects funded for FY 2021 are as follows:

<b>AIRPORT</b>	<b>GRANT AMOUNT</b>	<b>LOAN AMOUNT</b>
<b>Anaconda</b> — Const. Apron & Beacon	\$149,500	\$7,500
<b>Big Sandy</b> — PVMT Rehab	\$16,445	\$0
<b>Bridger</b> — PVMT Rehab	\$15,000	\$0
<b>Butte</b> — PVMT Rehab	\$81,775	\$10,225
<b>Chester</b> — PVMT Rehab	\$21,000	\$0
<b>Choteau</b> — Snow Removal Equip	\$30,000	\$0
<b>Colstrip</b> — PVMT Rehab	\$23,180	\$0
<b>Columbus</b> — Land Easement	\$8,889	\$8,888
<b>Cut Bank</b> — PVMT Rehab	\$44,542	\$0
<b>Ennis</b> — PVMT Rehab/Lighting	\$287,682	\$0

Construct & Extend Twy/Install Fence

Update Master Plan/AWOS/Beacons



Circle, MT

Continued on Page 2

<b>AIRPORT</b>	<b>GRANT AMOUNT</b>	<b>LOAN AMOUNT</b>
<b>Forsyth</b> — PVMT Rehab	\$23,920	\$0
<b>Fort Benton</b> — PVMT Rehab	\$23,000	\$0
<b>Glasgow</b> — PVMT Rehab/Lighting/ Construct Twy	\$18,500	\$12,500
<b>Great Falls</b> — Const. Deicing Fac./ Rehab Access Rd	\$17,500	\$89,332
<b>Hamilton</b> — PVMT Rehab/Lighting/ Const. Twy & Rwy/Expand Apron	\$482,000	\$18,000
<b>Havre</b> — PVMT Rehab	\$38,000	\$2,000
<b>Hot Springs</b> — PVMT Rehab	\$173,200	\$0
<b>Kalispell City</b> — Lighting & Fencing	\$236,712	\$21,250
<b>Laurel</b> — PVMT Rehab	\$37,350	\$0
<b>Lewistown</b> — PVMT Rehab	\$77,777	\$0
<b>Libby</b> — Snow Removal Equip	\$15,000	\$0
<b>Malta</b> — PVMT Rehab/Lighting	\$53,400	\$0
<b>Miles City</b> - Const. Rwy & Twy/Beacon PVMT Rehab & Building Improvement	\$263,930	\$35,000
<b>Philipsburg</b> — Master Plan	\$17,500	\$0
<b>Polson</b> — PVMT Rehab	\$8,100	\$0
<b>Poplar</b> — PVMT Rehab/AWOS	\$53,300	\$0
<b>Red Lodge</b> — PVMT Rehab	\$20,000	\$0
<b>Ronan</b> — PVMT Rehab/Master Plan	\$12,452	\$0
<b>Sidney</b> — Const. Twy/PVMT Rehab	\$106,675	\$106,675
<b>St Ignatius</b> — PVMT Rehab	\$77,399	\$0
<b>Stanford</b> — PVMT Rehab/Const. Twy	\$225,030	\$17,030
<b>Stevensville</b> - PVMT Rehab/Const. Twy Rehab Access Rd/Construct Bldg.	\$209,188	\$21,600
<b>Three Forks</b> — PVMT Rehab	\$189,126	\$0
<b>Turner</b> — PVMT Rehab/Const. Twy	\$242,928	\$0
<b>TOTALS</b>	<b>\$ 3,300,000</b>	<b>\$ 350,000</b>



Tim Conway, Administrator

**Montana and the Sky**  
Department of Transportation

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Mike Tooley, Director

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Follow MDT on social media!



## Missoula RSAT Meeting Scheduled

The annual Missoula Runway Safety Action Team (RSAT) meeting is scheduled March 25<sup>th</sup> from 11:00 a.m. to 12:00 p.m. in the Missoula Airport Conference room. The subject to be covered is the operation of aircraft on the airfield. Bring your concerns about signage, visibility and anything else that may enhance ground operations at KMSO.

Time permitting, the Air Traffic Manager will be available for general ATC questions.

# Pilots from Far and Wide Travel to Seeley Lake for Winter Survival Clinic



Seeley Lake Airport, Seeley Lake Montana

Twenty-five participants from across Montana and the world, traveled to Seeley Lake Montana in January to participate in the Aeronautics Division's Winter Survival Clinic. One can never predict when an aircraft accident will happen or how long it may

take to be rescued, but we can prepare and learn how to survive when the odds are against us. Special Forces military experts provided two days of training in shelter construction, signaling, fire starting, hydration and first aid to attendees.

Staying warm, dry, sheltered, hydrated and taking care of yourself were the key take-aways of this



WSC Students in classroom

course. Participants learned how to construct various types of survival shelters from basic survival kits (that pilots should carry with them) natural resources, and snow. Students and instructors camped in the elements overnight in their shelters to



*"Learning how to use all the gear in different ways in my survival kit was invaluable"*



*"This is an excellent program! All that take it will understand and respect the environment below them."*

finish off the course and test the skills they learned in the classroom the previous day.

This course has been offered intermittently for many years by the Aeronautics Division and has been wildly popular. It is a great way for pilots to learn winter survival skills in a controlled environment.



*"Having to put the skills you learned to the test, building a shelter and a fire, isn't as easy as you think. This was great training."*

Check the Aeronautics calendar of events at: <https://www.mdt.mt.gov/aviation/events.shtml> early next winter for January's Winter Survival Course dates. Reserve your spot early — the course will fill up quickly!

All pictures of Winter Survival Clinic were taken by Aeronautics Staff.

# Flight Instructor Refresher Course Held in Helena



Flight Instructor Refresher Course participants. Photo Credit: Aeronautics Staff

Aeronautics held the annual Flight Instructor Refresher Course (FIRC) in Helena February 7-8, 2020. Eighteen Flight Instructors from around Montana received 16 hours of FAA-required instruction to renew their Flight Instructor Certificates. Kim Barnes, Chief Instructor of Aviation Seminars, was the instructor again this year. His enthusiasm and passion for flight instruction made the course interesting, informative and fun.

Anyone can attend the FIRC to refresh their aeronautical knowledge and learn about the latest changes in aviation and the FAA.

## Flight Review Guide Updated



Aviation Seminars of America (ASA) has released the eighth edition of "Guide to the Flight Review: For Pilots and Instructors."

This book offers current FAA guidance on flight reviews and has been updated with the FAA's most current guidance. New materials related to today's operational environment has been added, including human factors, risk management, FAA certification standards, loss of control and upset recovery, ADS-B, remote pilots and drones.

The book provides training in a question and answer

format, providing a study tool for students, pilots, and instructors.

Pilots will learn what to expect in their upcoming flight review, refresh their knowledge, and renew their confidence, all of which will ensure safe practices while in flight.

Flight instructors will find this guide to be helpful in developing a well-rounded flight review tailored to pilots needs.

## Quiz Time!

- 1) You lose pitot heat, and your pitot tube ices over on climb out. Your static ports remain open. What instruments fail?
  - A: Vertical Speed Indicator
  - B: Attitude Indicator
  - C: Airspeed Indicator
  - D: Heading Indicator
  - E: Altimeter
  - F: Turn Coordinator
- 2) As you descend below the decision height on an ILS in patchy fog, the tower reports 1/4 SM visibility. The approach requires 1/2 SM visibility, but you can clearly see down the length of the 6000' runway. Can you continue?
  - A: Yes
  - B: No
- 3) You lose static port heat, and ice buildup clogs your static ports. You open your alternate static port. In most light aircraft, how will the altimeter react?
  - A: Immediately indicate slightly higher
  - B: Immediately indicate slightly lower
  - C: Begin a slow steady climb
  - D: Begin a slow steady decent
- 4) What is hypoxic hypoxia?
  - A: An oxygen deficiency due to low oxygen partial pressure
  - B: The reduced ability of the blood to carry oxygen
  - C: The reduced flow of oxygenated blood due to stagnation
  - D: The inability to absorb oxygen on the cellular level due to toxins
- 5) Individuals who are fatigued can start to experience hypoxia symptoms as low as \_\_\_\_\_ during the day and \_\_\_\_\_ at night.
  - A: 5,000' MSL; 3,000 MSL
  - B: 10,000' MSL; 5,000 MSL
  - C: 4,000' MSL; Sea Level
  - D: 12,000' MSL; 10,000 MSL
- 6) As a non-instrument rated private pilot in an airplane, can you request an SVFR clearance to land at an airport after sunset?
  - A: Yes
  - B: No



Calling All Youth Artists!



The Montana Department of Transportation (MDT) Aviation Awareness Art Contest is designed to broaden awareness of the importance of aviation and aerospace to the economy and to promote careers in these industries. The contest is open to all students in grades K-12 in public, private, and home schools.

### Categories

### Prizes

### Entry Requirements

#### Category 1:

Kindergarten - 5th grade

#### Category 2:

6th Grade - 8th Grade

#### Category 3:

9th Grade - 12th Grade

#### FIRST PLACE in each category:

1. A round trip flight to Helena for the winner and his/her parents (legal guardians) in May 2020 for the awards ceremony in Helena. Day to be decided.
2. Transportation Director, Mike Tooley will present all three winners with a trophy, certificate, and their artwork matted and framed.
3. Following the ceremony, the winners and their families will tour the airport and enjoy lunch.

#### SECOND & THIRD PLACE in each category:

1. A trophy and Certificate of Achievement.

1. Contest deadline is: Wednesday, April 1, 2020.
2. Contest is open to all Montana students, grades K-12.
3. Size of poster is not to exceed 11" x 14".
4. Artwork must have an aviation theme - can be color or black & white.
5. Please no tracing the images.
6. All artwork must include the following:  
Name of Student, Student's Grade, School's Mailing Address, Phone Number, and Teacher's Name

## Get More Info

Artwork will be returned to all that participate. Winners will be contacted after the contest deadline. Arrangements can be made at that time for air travel to Helena.

#### Mail Artwork To:

MDT Aeronautics Division  
P.O. Box 200507  
Helena, MT 59620-0507

#### Visit Our Website:

[mdt.mt.gov/aviation/](http://mdt.mt.gov/aviation/)

#### Or Contact:

Matt Lindberg  
[mlindberg@mt.gov](mailto:mlindberg@mt.gov)  
406-444-2506



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Alternative accessible formats of this document will be provided on request. Contact the Office of Civil Rights, Montana Department of Transportation, 2701 Prospect Avenue, PO Box 201001, Helena, MT 59620. Telephone (406) 444 - 9229. TTY may call 1 (800) 335 - 7592 or through the Montana Relay Service at 711.

# How to Fly Without ADS-B

How will you fly in the airspace that requires ADS-B now that the mandated equipping deadline has passed?

The FAA recently released a video demonstrating its ADS-B Deviation Authorization Preflight Tool (ADAPT). The requests must be made online no less than one hour before departure (not greater than 24 hours before) for each segment of your planned flight. Tail numbers with granted authorizations will be tracked by the FAA and numerous authorizations will not be permitted if you continuously need to fly in ADS-B required airspace. Equipping with ADS-B is expected if you have the need for this kind of flying.

The ADAPT video is less than five minutes long and shows you where to find the form and how to fill out.

The video may be viewed at this website: <https://www.youtube.com/watch?v=cWgT-fXjGsY&feature=youtu.be>

# New Changes to FAA Airman Knowledge Testing

The FAA's Airman Testing Standards Branch recently awarded a new airman knowledge testing contract called the Airman Certificate Testing Service (ACTS). The ACTS contract provides a comprehensive, best practices approach to enhance the overall quality of FAA Airman Knowledge Testing. As a result, several enhancements went into effect on January 13, 2020, which are changes from previous procedures.

There are so many new people seeking FAA certification from all over the world, and the opportunity for errors, returned applications and delays has grown. The increase in recent years has created a need to make standardization enhancements to the knowledge test portion of the certification process. These changes enable the FAA to better track an airman consistently through the entire certification process and collect better data to support risk-based decision making.

Previously, applicants could provide the knowledge testing center a form of ID different from the name they provide on the electronic or paper application, which can lead to returned files and lengthy delays in the certification process. These and similar problems can be reduced by utilizing the FAA Tracking Number (FTN) generated when an applicant creates a profile in the Integrated Airman Certification and Rating Application (IACRA) system.

Requiring all FAA certification applicants to obtain an FTN in IACRA prior to taking a knowledge test will allow the FAA to rely on the name in the IACRA profile for all actions associated with that applicant. The registration process takes only a few minutes and is required for your checkride.

All applicants must now establish an FAA Tracking Number within IACRA before taking any FAA airman knowledge test. This identification number will be printed on the applicant's Airman Knowledge Test Report (AKTR) in replacement of the Applicant ID number.

Applicants for FAA certificates such as Mechanic, Parachute Rigger, Dispatcher, etc. who do not yet have an electronic certification path in IACRA will continue to utilize the paper application forms. For those certificate types, IACRA is only used for obtaining an FTN prior to registering for an airman knowledge test.

To register for an FTN in IACRA, applicants will need to visit the IACRA website and follow the instructions provided.

Once you have your FTN, you can register to take your FAA Airman Knowledge exam.

# Yellowstone Airport Pilot Campground Improvements



Yellowstone Airport Campground  
Photo Credit: Aeronautics Staff

Yellowstone Airport (WYS) is seeing some improvements at the Pilot Campground. Foremost, the airport is in the process of acquiring a brand new outhouse building. The new building will be made of concrete similar to many of those at United State Forest Service Campgrounds throughout the state.

The airport is also in the process of installing two new picnic tables for the campground pavilion. These picnic tables will be made of treated wood and will be ADA compliant. Contributions for the tables were provided by Montana Pilot's Association (MPA), and Recreation Aviation Foundation (RAF), and pilot campground donations.

These improvements will complement the newly improved campsite locations along with the new fire rings we received in 2019 courtesy of the RAF. Come out this summer to WYS and see the campground's makeover!



Yellowstone Airport Campground Photo Credit: Aeronautics Staff

# New Protocols for Diabetic Pilots Medical Certification

The FAA published a notice on a diabetes protocol for applicants seeking to exercise Air Transport, Commercial, or Private Pilot Privileges. The innovative new protocol makes it possible for airline transport or commercial pilots with Insulin-Treated Diabetes Mellitus (ITDM) to potentially receive a special-issuance medical certification.

Medical science has come a long way in the treatment and monitoring of diabetes. This new medical protocol takes into account medical advancements in technology and treatment and opens the door for individuals with ITDM to become airline pilots.

Since 1996, private pilots with ITDM have been issued medical certificates on a case-by-case basis after assessing their risks. This new protocol is based on established advancements in medical science that make management and control of the disease easier to monitor, thereby mitigating safety risks.

To be considered under this protocol, applicants will provide comprehensive medical and overall health history, including reports from their treating physicians. They will also provide evidence of controlling their diabetes using the latest technology and methods of treatment being used to monitor the disease.

The FAA developed the new protocol based on the reliability of the advancements in technology and treatment being made in the medical standard of care for diabetes and input from the expert medical community.

## No AOPA Scholarship Awards Were Issued to Montana Residents in 2019

More than \$1M is available in 2020 through AOPA flight training scholarships!

AOPA members are invited to apply for primary and advanced flight training scholarships, made possible through donations to the AOPA Foundation. In 2019, 123 scholarships totaling more than \$1 million were awarded. If you are not yet an AOPA member, you can join to be eligible to apply.

The scholarship awards are broken down into four categories: AOPA High School Flight Training Scholarship, AOPA Teacher Flight Training Scholarship, AOPA Primary Flight Training Scholarship, and AOPA Advanced Rating Scholarship.

The final deadline for scholarship applications is **Sunday, March 15, 2020, at 11:59 p.m. (EDT)**.

Visit <https://www.aopa.org/training-and-safety/students/flight-training-scholarships> to apply or for more information. Anyone who is eligible to apply is encouraged to do so if they are in pursuit of flight training.

## Calendar of Events

**March 1, 2020 — Aircraft Registration Deadline.** Please postmark or timestamp your registration payments or affidavit on or before March 1, 2020, for renewal or before 30 days after a new aircraft purchase to avoid the penalty. For questions, please contact the Aeronautics Division at (406) 444-2506.

**March 25, 2020 — Missoula RSAT Meeting.** The annual Missoula Runway Safety Action Team (RSAT) meeting is scheduled 11:00 a.m. to 12:00 p.m. in the Missoula Airport Conference room.

**April 1, 2020 — Aviation Awareness Art Contest.** April 1 is the deadline for art work submission. See Page 5 for details.

**May 16, 2020 — AOPA Rusty Pilots Seminar.** Hosted by Blue Goose Aviation in Polson, MT from 9:00 a.m. to 12:00 p.m. at the Polson Airport in Hangar #35. Lunch and a pilot discussion will follow the seminar. For questions please contact Joe at (719) 393-5550. If you have not flown in a while, come out and meet other pilots and let us help you get back into the air. This seminar is free for AOPA members and \$79.00 for non-members.

**DID YOU PASS? Quiz Answer Key: 1: C, 2: A, 3: A, 4: A, 5: B, 6: B**

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**VISION ZERO**

zero deaths · zero serious injuries

MONTANA DEPARTMENT  
OF TRANSPORTATION

**March 2020**

5403

Aeronautics Division

2630 Airport Road

PO Box 200507

Helena, Montana 59620-0507



## **Vision Zero: A Goal for Everyone**

In 2019, there were 184 fatalities on Montana roads.

What does that mean? 184 parents, children, grandparents, friends, siblings, spouses, and other loved ones had lives that were cut short. It also means countless tears and shattered lives for those left with the aftermath of unsafe driving behaviors. Which loved one are you prepared to lose? If your answer is none, then Vision Zero is also **YOUR** goal.

It will take every one of us to work towards the day that Vision Zero is met, and the fatality total reads "ZERO." Two of the highest contributing factors to traffic fatalities in 2019 were alcohol and no seat belt.

These are behaviors that can be changed! Start by always wearing your seatbelt and planning for sober transportation. Remind your loved ones and those around you to do the same.

**-Director Mike Tooley, MDT**

Visit [www.mdt.mt.gov/visionzero](http://www.mdt.mt.gov/visionzero) for more information.

**VISION ZERO** ★  
zero deaths · zero serious injuries

**MONTANA DEPARTMENT  
OF TRANSPORTATION**

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