

Montana and the Sky

Montana Department of Transportation

Aeronautics Division

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Search Pilot Clinic to be Held in August



For over four decades, Montana Aeronautics has held a search pilot clinic to train volunteer pilots to search for missing aircraft. Montana is one of few states to operate its own search services using both state and volunteer aircraft, pilots, and observers. This year the clinic will be held in Helena, August 5 - 6, 2022. Participating pilots will receive dual instruction in a Cessna 182 or 206 airplane focused on mountain flying techniques, learn search techniques, and receive ground instruction. Volunteer observers will be trained to look for signs of a crash site and gain experience sitting in the back seat on training flights. Also included in the program is direction-finding theory and training for emergency locator transmitters. The mountain ranges surrounding Helena will provide good training for route and grid searching.

This program will be open for applications in June, and Aeronautics will select 24 qualified candidates to attend the course.

For more information about this clinic, contact Matt Lindberg at (406) 444-9568 or mlindberg@mt.gov.

Aviation Career Exploration (ACE) Academy July 22-23, 2022

The 2022 Aviation Career Exploration Academy for high school students will be conducted in Helena on Friday and Saturday, July 22nd and 23rd. The two-day camp will immerse students in wide ranging aspects of aeronautics that will include flights in general aviation airplanes. Other activities may include a tour of a state-of-the-art aerospace manufacturing facility; visits to a static Boeing 727 flight deck, the Army National Guard Aviation Support Facility, the cab of an air traffic control tower, and the aviation maintenance technician program at Helena College. On day two, students will be driven to Great Falls to see the United States Thunderbirds F-16 demonstration team, other awesome airshow performances and static displays. The cost of the academy is \$120 and includes all meals and double occupancy lodging. To register, please visit: https://www.eventsquid.com/event.cfm?event_id=16682.

Are you interested in sponsoring a high school student to explore aviation and the benefits, challenges, rewards, and culture that working in the industry provides? If so, please let us know!

Contact Montana Aeronautics with any questions, or to donate a sponsorship at (406) 444-2506 or mdtaerosafetyed@mt.gov.



All front page photos courtesy of Aeronautics staff

Yellowstone Airport Welcomes Adam Moulton to the Team!

Yellowstone Airport is excited to have Adam Moulton join our team this year. Adam is serving as the new Airport Facilities Specialist. Adam grew up in Wyoming, Montana, and Idaho and spent many of his summers at the Yellowstone Airport working for the airport's former fixed base operator, Yellowstone Aviation. After graduating from the University of Puget Sound with a bachelor's degree in Business Administration in 2009, his adventures led him to Portland, OR, where he managed an independent outdoor shop. Deciding one day that a thru-hike of the Continental Divide Trail seemed like a good idea, Adam took off on this 2800+ mile trek in 2020. Wildfires and knee issues forced him off the trail in September, but he returned in 2021 and completed the Idaho/Montana section to finish the trail.



Photo courtesy of Aeronautics staff

Adam is excited to be back in West Yellowstone and back at the Yellowstone Airport! He plans to spend as much time as possible flying, fishing, mountain biking, and hiking with his Siberian Husky, Koda. Welcome, Adam!

Aviation Maintenance Technician Day

Through his efforts building the engine utilized by the Wright Brothers' Wright Flyer in 1903, Charles Edward Taylor came to be known as the first aircraft mechanic. Born May 24, 1868, Taylor was initially hired by the Wright Brothers to work in their bicycle shop fixing bicycles. As time passed, the Wright Brothers became more involved with their pursuits in aeronautics, resulting in Taylor taking on more responsibility with their bicycle business. When asked by Wilbur and Orville Wright if he could build the engine they had determined they would require, an engine which had to be no more than 180 pounds, while still delivering between 8-9 horsepower, Taylor's answer was, "Sure." Taylor not only succeeded, he managed to produce a 12 horsepower engine, completed in only six weeks.



Taylor's contributions were an integral part of making the first powered flight on December 17, 1903, a reality. However, history has not always provided Taylor the same attention that the Wright Brothers receive. In an effort to honor Charles Taylor and recognize aviation maintenance technicians everywhere, National Aviation Maintenance Technician Day was proposed in the U.S. House of Representatives in 2007, with a resolution passed in 2008. Each year on May 24, in honor of Taylor's birthdate, we celebrate aviation maintenance technicians and all they do.

Thank you to Derrick Olheiser (Aeronautics Aircraft Mechanic) and all of Montana's aviation maintenance technicians for keeping us safe in the sky!

Article information and photo of Charles E. Taylor courtesy of the National Park Service; photo *Wright State University Archives*.

Full article and photo available at <https://www.nps.gov/people/charles-e-taylor.htm>



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Selling Your Airplane?

If you sell your aircraft, be sure to keep a copy of the Federal Aviation Administration's (FAA) Bill of Sale. The Montana Aeronautics Division requires a copy of the FAA Bill of Sale to cancel your state aircraft registration. A copy of the FAA Bill of Sale must accompany your signed affidavit, found on the bottom portion of your annual renewal invoice (a copy of your annual invoice is mailed to you twice annually prior to the registration deadline as a courtesy). Your signed affidavit and FAA Bill of Sale must be received by the annual renewal deadline of March 1st each year. Please remember that registration fees plus late fees also apply for paperwork not received or incomplete paperwork submitted by the March 1st due date, even if you no longer own the aircraft.

It is also a good idea to retain an additional copy of the FAA Bill of Sale for your own records. Failure to provide the required proof for fee exemption is the leading cause of aircraft registration delinquency in Montana.

The Montana Aeronautics Division is required to register aircraft in Montana. (Some exceptions apply, see your invoice for more information.) Renewals must be paid or the affidavit with required proof submitted annually by March 1st to avoid the statutory late fee penalty.

The FAA Bill of Sale form can be found online at: <https://www.faa.gov/forms/index.cfm/go/document.information/documentID/186163>

Summit Aviation to Host 8th Annual Cancer Survivor Flight Camp

Every summer, Summit Aviation opens its doors and cockpits to four young cancer survivors from across the country, chosen by Eagle Mount through their Big Sky Kids program for their Annual Cancer Survivor Flight Camp. This year, the camp will be held June 27-July 1, 2022, at Summit Aviation in Bozeman. Each of the participating incredible individuals is a young adult survivor of childhood cancer who gets to live their dream of taking flight and experience the life of a pilot for a week. Started in 2014, this event is completely donor funded.

Cancer patients who are in remission often hear the phrase, "The sky is the limit" in the wake of their hard-earned good health, but Flight Camp makes that saying a reality!

Each morning starts with participants and their certified flight instructors conducting a pre-flight inspection on Summit's aircraft before the group gathers for a short briefing on the day's flight path and taking to the skies over Montana's beautiful landscapes! All flight lessons take place above some of the best views Montana has to offer, including routes to Spanish Peaks, Big Sky and Bear Trap Canyon, as well as over the Bridger Mountains and Paradise Valley. On each flight, campers learn basic aircraft control and how to perform basic maneuvers; by the end of the week many are performing their own take-offs and landings!

Campers return from their morning flights to delicious, themed lunches donated by various local businesses. Afternoons consist of tours of Bozeman International Airport facilities (including emergency response operations, the air traffic control tower, and private jets) and a ground lesson where instructors go over flight controls and aerodynamics, helpful tips for landing smoothly, and how to plan a cross-country flight, which also becomes a reality for the camp participants.

The week culminates in a graduation flight to Driggs, ID, during which campers get a bird's eye view of the majestic Yellowstone National Park and Grand Tetons. While in Driggs, the group stops for lunch at the Warbirds Cafe and tours Teton Aviation Center's Warbird Collection before making their final flight back to Bozeman.

The transformation these individuals go through during the week is amazing to witness. For some, it's a chance at an incredible experience after stolen opportunities; for others, it's about removing limitations and revealing new skills and abilities. No matter the journey they take, the destination is one of new-found freedom, confidence, and ability.

For more information or to donate, please visit: <https://flysummit.com/flight-camp>

Article summarized from Summit Aviation. Full article and additional information available at <https://flysummit.com/flight-camp>.



Photo courtesy of Summit Aviation. Accessed from <https://flysummit.com/flight-camp>

Activated Flight Plans

A flight plan is a major safety item that is often overlooked. Montana is large, has very diverse terrain, and has wide areas that are uninhabited. Unfortunately, in a situation where every moment counts, this could make finding a missing aircraft a lengthy process. A filed, and activated, flight plan can prove to be an invaluable resource in the attempt to find an overdue aircraft.

Many pilots don't file and activate a flight plan because they are flying into a remote strip and will likely not have reception to contact anyone in order to close the flight plan. However, a pilot can contact flight service over the radio to close their flight plan before they get deep enough in the back country where they would have difficulty maintaining radio reception. Maintaining a higher altitude for this purpose will help receive and transmit clearly. When closing the flight plan this way, a pilot should report to flight service that they are closing the flight plan but will be continuing the flight for "X" destination. This way, there is a record of your last known location and your planned intentions, should search proceedings be activated for that particular flight.

Some pilots file a flight plan for their intended flight but do not actually open the flight plan. The thinking behind this method is that there is some record of the intended flight path on file, even if it is never activated, and that it does allow rescuers to zero in on the most likely flight path of a pilot that does not arrive at their destination. However, this is not a best practice, and if you are going to file a flight plan, it is in everyone's best interest to have it activated and used as intended.

It is probable that using a flight plan as it is designed could save hours, if not days, off the time it could take to get you help during an emergency. One of the very first things a searcher asks is, "Did they have a flight plan?" This is important because it narrows the search area quickly. Statistically, 67 percent of missing aircraft are found within 10 nautical miles of their expected course. When you cut Montana's 147,040 square miles down to that 10-mile corridor, your odds of getting rescued in a timely manner increase greatly. With the simplicity and swiftness of electronic briefings and filing options, there has never been an easier way to take care of this critical item prior to flight.

Relying only on your airplane's emergency locator transmitter or your personal locator beacon to be rescued isn't a wise idea. While they are considered essential and "first line" rescue methods, they may not always work. Such equipment may be damaged by the accident, become lodged or unreachable, or the signal may be hampered by nearby terrain or foliage.

One last reminder: if you are going to use a flight plan, it might as well be accurate! If you make significant changes to your plans, update flight service. They love hearing from pilots over the radio, and greatly appreciate pilot reports at the same time. Listing your cell phone number of the phone you are flying with is critical, as it can also be used to aid in locating you during an emergency. You might be surprised how many people list their home phone landline and list an emergency contact and landline number of a person that is also on board with them!

For more information or with questions, contact Matt Lindberg at the Aeronautics Division, (406) 444-9568 or mlindberg@mt.gov

New Flying Club in Livingston

A new flying club called the Flying Rangers has formed at the Livingston airport, LVM. They currently have a 1978 Piper Archer II. Club membership is limited to 20 members to afford accessibility in scheduling of their aircraft. The club states they may add another aircraft as demand increases.

More information can be found at: <https://flyingrangers.wordpress.com/>

Montana Aeronautics is Hiring!

If you have always wanted to work at the Montana Aeronautics Division and make a difference in aviation in Montana, check out this job posting! The Airports & Airways Division's Bureau Chief position, located in Helena, is open for applications.

For more information and to apply, please visit: <https://mtstatejobs.taleo.net/careersection/200/jobdetail.ftl?job=22140461&tz=GMT-06%3A00&tzname=America%2FDenver>

NASAO Offering Aviation Scholarship

The National Association of State Aviation Officials (NASAO) is accepting applications for the Henry Ogradzinski Scholarship. This scholarship is named after Henry Ogradzinski, who was the former President and CEO of NASAO, and passed away after a long battle with cancer in 2013. Mr. Ogradzinski was a passionate advocate of aviation and the aviation industry. This scholarship aims to award a scholarship for academic achievement in aviation or aerospace, and is open to incoming juniors and seniors at a college or university continuing their education in the aviation or aerospace industry. Up to three \$1000 non-renewable scholarships will be awarded, and may be used for tuition, fees, books, and/or supplies. Deadline for applications is June 3, 2022.

For more information and additional submission instructions, please visit <https://nasao.org/page/henry-ogrodzinski-scholarship>

Scholarship information courtesy of NASAO, <https://nasao.org/page/henry-ogrodzinski-scholarship>. For additional information, please visit <https://nasao.org/>

Courtesy Car Grant Application Period Open April 1- May 31, 2022

Reminder: The Airport Courtesy Car Application period is from April 1 - May 31. There are up to four reimbursable grants of up to \$5,000 available for a courtesy car. Only airport managers and sponsors may apply. Application and more information about the program can be found at:

<https://www.mdt.mt.gov/aviation/courtesy-cars.aspx>.

Please note that the link for the online application is available beginning April 1, 2022, and closes at 5:00 p.m. on May 31, 2022.

For more information, contact Karen Speeg at the Aeronautics Division at (406) 444-9569.



Photo courtesy of Aeronautics staff

Do You Know of an Aviation Event in Montana?

Montana Aeronautics relies on input from sponsors, planners, hosts, and volunteers from aviation events in Montana to let us know about planned aviation activities. Please let us know what events you have planned, and we will put them on our calendar of events to share with the flying community.

This year's activities are looking abundant; we hope to see you at some of them soon!

Aviation Quiz

(Answer Key found on Page 7)



1) If you are tracking the 180 radial inbound to the Helena VOR, and the CDI shows a deflection of 2 dots to the left at 30 nm, how far off course are you?

- A: 1 nm
- B: 0.5 nm
- C: 2 nm
- D: 1.5 nm

Quiz question information courtesy of boldmethod.com.
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2) Density altitude can be a significant factor to consider for aircraft performance at some airports, even on cooler days.

- A: True
- B: False

3) What is the standard temperature lapse rate, accurate from sea level up to 36,000 feet?

- A: 2.5 degrees C
- B: 3.5 degrees F
- C: 2 degrees C
- D: Both B & C

4) Which of the following are not ok to leave on your floats or hull when leaving a body of water for a day?

- A: Mussels
- B: Mud
- C: Moss
- D: All of the above

5) The largest snowflake ever recorded was seen in Fort Keogh (modern Miles City, MT). It was ___ big?

- A: 15 millimeters
- B: 0.5 inches
- C: 15 inches
- D: 15 centimeters

6) Humidity levels affect density altitude.

- A: False
- B: True



Calendar of Events



- May 20, 2022 — MAMA Airport Internship Assistance Program Application Deadline** For more information, see Page 4.
- May 21, 2022 — Pancake Breakfast** Held in conjunction with the EAA's Learn to Fly Day, come to the Lincoln Airport, S69, for a pancake breakfast 7:00 - 10:00 a.m. Bring a non-pilot with you, as well as your camp plates to Hangar 8. For more information, contact Doug Vulcan at Vulcandg406@gmail.com or call (406) 362-4473.
- May 27-28, 2022 — Phil Olson Memorial Fly-in & Camp-Out** The Three Forks EAA Chapter is holding a fly-in Memorial Day weekend, May 27-28 at the Three Forks Airport. Fly in to 9S5 and camp out for the weekend! There will be food, an aviation movie shown in Hangar 22 Friday night, and a spot landing contest, with prizes for the top three performers! For more information, contact Nick Bilton at (406) 570-0803.
- May 28, 2022 — Spotted Bear Work Session** Come out to 8U4 for a work party! The fun begins at 9:00 a.m.
- June 4, 2022 — Havre Air Fair** Fly in to KHVR Havre City/County Airport June 4th. Free admission, and breakfast served for \$10, 7:00 a.m. to 11:00 a.m. For more information, contact Willie Hurd at (406) 945-3646 or Tony Dolphay at (406) 390-5689.
- June 11, 2022 — Big Timber Airport Fly-In and Car/Truck Show.** Fly or drive in to the Big Timber Airport June 11th. Breakfast served 7:00-11:00 a.m., lunch served 11:00 a.m.-1:00 p.m., donations accepted. Profits go to Sweet Grass Technical Institute in Big Timber. If weather turns bad, this event will be moved to June 12, 2022. For more information, contact Ken Wendland 406-224-1175.
- June 11, 2022 — Butte Wings & Wheels** Fly-in or drive to Bert Mooney Airport in Beautiful Butte for our second annual aircraft fly-in & car/truck show! Hosted by the Butte Composite Squadron Civil Air Patrol. Enjoy a free breakfast 7:30-10:00 (donations accepted), Avgas discount at Butte Aviation, and fun for young and old alike, plus prizes! For more information, contact Walt McIntosh at (406) 670-1846.
- June 11, 2022 — Choteau Fly-In** 6:30-10:00 a.m. Free breakfast, donations welcome. Young Eagles airplane rides available. Skydiving by prior sign-up. For more information, contact Scott Gasvoda at (406) 590-2836.
- June 18, 2022 — Meadow Creek Work Session** Starting at 9:00 a.m. Bring your shovels to 0S1 and pitch in!
- June 20-26, 2022 Commemorative Air Force Flying Legends of Victory Tour** Great Falls, MT. B-17 Flying Fortress *Sentimental Journey* and B-25 Mitchell *Maid in the Shade* will make a stop in Great Falls. Come see these historic military aircraft up close, or even purchase a flight in one. For more information, visit <https://www.azcaf.org/location/great-falls-mt-tour-stop/>
- June 24-26, 2022 — Missouri Breaks Fly-In** Join MPA for a full weekend of fun between Winifred, the Upper Missouri Breaks National Monument, Lewistown, and the Judith River. There will be fly-ins and several airstrips to explore over the course of the three days, as well as camping and cook-outs. For more information, visit https://www.montanapilots.org/content.aspx?page_id=4001&club_id=569645&action=cira
- June 25, 2022 — Whitefish Fly-In** Come to 58S for a fly-in June 25th! For more information, contact Bill McKinney at (406) 261-4385.
- June 27-July 4, 2022 — Commemorative Air Force Flying Legends of Victory Tour** Bozeman, MT. B-17 Flying Fortress *Sentimental Journey* and B-25 Mitchell *Maid in the Shade* will make a stop in Bozeman. Come see these historic military aircraft up close, or even purchase a flight in one. For more information, visit <https://www.azcaf.org/location/bozeman-mt-tour-stop/>.
- July 5-10, 2022 — Commemorative Air Force Flying Legends of Victory Tour** Kalispell, MT. B-17 Flying Fortress *Sentimental Journey* and B-25 Mitchell *Maid in the Shade* will make a stop in Kalispell. Come see these historic military aircraft up close, or even purchase a flight in one. For more information, visit <https://www.azcaf.org/location/kalispell-mt-tour-stop/>
- July 11-17, 2022 — Commemorative Air Force Flying Legends of Victory Tour** Missoula, MT. B-17 Flying Fortress *Sentimental Journey* and B-25 Mitchell *Maid in the Shade* will make a stop in Missoula. Come see these historic military aircraft up close, or even purchase a flight in one. For more information, visit <https://www.azcaf.org/location/missoula-mt-tour-stop/>
- July 16, 2022 — Schafer Meadows Work Session** Fly in to Schafer for the annual work party! Work starts at 9:00 a.m.
- July 22-23, 2022 — Aviation Career Exploration (ACE) Academy** See Page 1 for more information.
- July 23, 2022 — Lincoln Airport Annual Community Open House and BBQ Potluck** Head over to S69 from 10:00 a.m. to 3:00 p.m. for their annual community open house/barbeque potluck and fly-in. For more information, contact Jerome Cain at (406) 461-5631.
- July 23-24, 2022 — Flight Over the Falls Montana Military Open House** The Malmstrom Air Force Base 341st Missile Wing and the Montana Air National Guard 120th Airlift Wing are co-hosting a Montana Military Open House at the Great Falls airport. There will be aerial demonstrations both days, including the U.S. Air Force Thunderbirds, as well as a variety of other organizations and aircraft. This event is free and open to the public. For more information and safety reminders, please visit www.greatfallsairshow.com.
- August 5-6, 2022 — Search Pilot Clinic**, Helena. See Page 1 for more information.

Aviation Quiz Answer Key: 1:C 2:A 3:D 4:D 5:C 6:B

Alternative accessible formats of this document will be provided on request. Persons who need an alternative format should contact the Office of Civil Rights, Department of Transportation, 2701 Prospect Avenue, PO Box 201001, Helena, MT 59620. Telephone 406-444-5416 or Montana Relay Service at 711.

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MDT Aeronautics FAA Weather Webcam Locations

The Montana Department of Transportation has created a map of the FAA weather web cameras that are currently in place and operational throughout Montana (green), as well as scheduled installations for 2022 (yellow) and possible future weather camera sites (orange).

This map will be updated as more cameras are added.

View all current webcams at <https://weathercams.faa.gov/>

