

NATIONAL TRANSPORTATION SAFETY BOARD

NTSB Form 6120.1

PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

Email the pilot/operator aircraft accident/incident report to the investigator-in-charge of your accident/incident. If email is not available, mail the report per the instructions below.

If your accident/incident occurred in Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, the District of Columbia, Puerto Rico, or the US Virgin Islands, send the form to: NTSB, ERA, 45065 Riverside Parkway, Ashburn, VA 20147.

If your accident/incident occurred in Ohio, Michigan, Indiana, Wisconsin, Illinois, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Colorado, or New Mexico, send the form to: NTSB, CEN, 4760 Oakland Street, Suite 500, Denver, CO 80239.

If your accident/incident occurred in Montana, Wyoming, Idaho, Utah, Arizona, Nevada, Washington, Oregon, California, Hawaii, or the territories of Guam or American Samoa, send the form to: NTSB, WPR, 505 South 336th Street, Suite 540, Federal Way, WA 98003.

If your accident/incident occurred in Alaska, send the form to: NTSB, ANC, 222 West 7th Avenue, Room 216, Box 11, Anchorage, AK 99513.

Rules pertaining to notification of aircraft accidents and incidents, as well as overdue aircraft are found in 49 Code of Federal Regulations (CFR) Part 830 http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title49/49cfr830_main_02.tpl. These rules state the authority of the NTSB, define accidents, incidents, injuries, and other terms, and provide procedures for initial and immediate notification of accidents and incidents by aircraft pilots/operators.

A. APPLICABILITY

The pilot/operator of an aircraft shall send a report to the office listed above, based on accident/incident location; immediate notification is required by 49 CFR 830.5(a). The report shall be filed within 10 days after an accident for which notification is required by Section 830.5, or after 7 days if an overdue aircraft is still missing.

An aircraft accident, as defined in 49 CFR 830.2, is determined as an occurrence that involves a fatality or serious injury, or substantial damage to the aircraft. For occurrences that do not involve a fatality, the determination that the occurrence is an accident can be appealed by writing to the Director, Office of Aviation Safety, NTSB, 490 L'Enfant Plaza, S.W., Washington, D.C. 20594.

INSTRUCTIONS TO PILOTS/OPERATORS FOR COMPLETING THIS FORM

It is necessary that ALL questions on this report be answered completely and accurately.

If more space is needed, continue on a blank sheet of paper.

Nearest City/Place: Use the name of the nearest community in the state where the accident/incident occurred.

Date/Time: Indicate the date and local time of the event. Be sure to indicate the time zone.

Phase of Operation: Indicate the phase of operation during which the accident/incident occurred.

Aircraft Information: Enter aircraft make and model information as indicated on the aircraft registration certificate, including series. If the involved aircraft is certified as "amateur-built," include the name of the producer of the kit or plans, unless an NTSB employee instructs otherwise.

Maximum Gross Weight: Enter the certificated maximum gross weight for the aircraft involved in the occurrence. This should be the same as the maximum gross weight indicated on the aircraft weight and balance documents.

Engine: Enter engine make and model information as indicated on the engine data plate.

The NTSB uses this form for aircraft accident prevention activities and for statistical purposes. NTSB regulations (49 CFR Part 830) require that ALL questions be answered completely and accurately. Completion of this form will take approximately 60 minutes. The NTSB does not guarantee the privacy of any information provided in this form. You need not complete this form unless it displays a valid OMB control number, in accordance with 5 C.F.R. § 1320.5(b), which applies to this collection of information.

B. DEFINITIONS

1. "Aircraft Accident" means an occurrence associated with the operation of an aircraft that takes place between the time any person boards the aircraft with the intention of flight and all such persons have disembarked, and in which any person suffers death, or serious injury, or in which the aircraft receives substantial damage. For purposes of this form, the definition of "aircraft accident" includes "unmanned aircraft accident," as defined at 49 CFR 830.2.

2. "Substantial Damage" means damage or failure that adversely affects the structural strength, performance or flight characteristics of the aircraft, and that would normally require major repair or replacement of the affected component. NOTE: Engine failure or damage limited to an engine if only one engine fails or is damaged, bent fairing or cowlings, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, and damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wing tips are not considered "substantial damage" for purposes of this report.

3. "Operator" means any person who causes or authorizes the operation of an aircraft, such as the owner, lessee, or bailee of an aircraft.

4. "Fatal Injury" means any injury that results in death within thirty (30) days of the accident.

5. "Serious Injury" means any injury that (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fracture of fingers, toes, or nose); (3) causes severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; or (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

Type of Fire Extinguishing System: If a fire extinguishing system was used to fight an aircraft fire, specify the type(s) of extinguishing system(s) used. Examples include handheld extinguisher, engine fire bottle, cargo/baggage compartment fire suppression system, or airport emergency ground equipment.

Owner/Operator Information: Enter the owner information as shown on the registration certificate. Commercial operators, enter the operator information, including "doing business as" when applicable, as shown on the operator certificate.

Revenue Sightseeing Flight: Indicate whether the accident aircraft was conducting revenue sightseeing operations under 14 CFR Part 91 at the time of the accident.

Air Medical Flight: Indicate whether the accident flight was being conducted for the purpose of carrying medical personnel, patient(s), or organs.

Public Aircraft: Federal, state or local government flight operations such as official travel, law-enforcement, low-level observation, aerial application, firefighting, search and rescue, biological or geological resource management, or aeronautical research. Indicate whether the flight was conducted by the armed forces, federal, state, or local government.

Purpose of Flight: 14 CFR Parts 91, 103, 133, 136, and 137. Indicate the type of operation that was being conducted at the time of the occurrence using the following definitions:

AERIAL APPLICATION--Operations using an aircraft to perform aerial application or dispersion of any substance. Examples include agricultural, health, forestry, cloud seeding, firefighting, insect control, etc.

AERIAL OBSERVATION--These flights include aerial mapping/photography, patrol, search and rescue, hunting, highway traffic advisory, ranching, surveillance, oil and mineral exploration, criminal pursuit, fish spotting, etc.

AIR DROP--Aerial operations, other than aerial application, that are intended to release items in flight.

AIR RACE/SHOW--Includes any flight operations conducted as part of an organized air race or public demonstration.

BUSINESS--Includes all personal flying without a paid professional crew for reasons associated with furthering a business, including transportation to and from business meetings or work. This does not include corporate/executive operations, air taxi, or commuter operations.

EXECUTIVE/CORPORATE--Company flying with a paid, professional crew.

FERRY--Non-revenue flight under a special flight or "ferry" permit. Refer to 14 CFR 21.197 for details of special flight permit issuance.

FLIGHT TEST--Flight for the purpose of investigating the flight characteristics of an aircraft/aircraft component or evaluating an applicant for a pilot certificate or rating.

INSTRUCTIONAL--Flying while under the supervision of a flight instructor or receiving air carrier training. Personal proficiency flight operations and personal flight reviews, as required by federal air regulations, are excluded.

OTHER WORK USE--Miscellaneous flight operations conducted for compensation or hire such as construction work (not 14 CFR Part 135 operation), parachuting, aerial advertising, towing gliders, etc.

PERSONAL--Flying for personal reasons (excludes business transportation) including pleasure or personal transportation. This also includes practice or proficiency flights performed under flight instructor supervision and not part of an approved flight training program.

POSITIONING--Non-revenue flight conducted for the primary purpose of relocating the aircraft. Examples include moving the aircraft to a maintenance facility or to load passengers or cargo etc.

UNKNOWN--Use only if the primary purpose of flight is not known.

Other Aircraft--Collision: For all accidents involving a collision with another aircraft, including parked aircraft, check "Collision with other aircraft" under Basic Information and complete this section indicating details about the OTHER aircraft involved in the collision.

Airport Information: Complete this section if the accident/incident occurred on approach, landing, takeoff, departure, or within 3 statute miles of an airport. Please refer to the FAA Airport/Facility Directory or other official source for airport information.

Airport Identifier: Provide the official 3 or 4 character airport identifier number.

Runway: Indicate the number of the runway used, including L, R, or C if applicable.

Runway/Landing Surface: Indicate the type of intended runway/landing surface (do not indicate surface conditions). If the surface type was mixed, check all that apply.

Condition of Runway/Landing Surface: Indicate the condition of the intended runway/landing surface. If multiple conditions existed at the time of the accident, check all that apply.

Weather Information at the Accident/Incident Site: Indicate the weather conditions reported at the accident/incident site at the time of occurrence. If no weather reporting was available for the accident/incident site, indicate the reported conditions at the nearest reporting site. Specify the weather reporting site identifier, the observation time, and distance from the accident/incident.

Sky/Lowest Cloud Condition: Indicate the height above ground level of the lowest cloud condition present at the time of the accident/incident and whether coverage was reported as few, scattered, broken or overcast. Also indicate the height above ground level and coverage of the lowest cloud ceiling present at the time of the accident/incident (reported as broken or overcast).

NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs: Describe all NOTAMs (distant (D) or Flight Data Center (FDC), if known), AIRMETs, SIGMETs, and PIREPs in effect near the accident/incident.

Flight Crewmember Information: Indicate the category that best describes the capacity served by this flight crewmember at the time of the accident. The designators "Flight Crewmember 1" and "Flight Crewmember 2" do not refer to a specific pilot position or responsibility. If more than one pilot is aboard, they may be entered in any order and their capacity entered as appropriate.

Degree of Injury: See Definitions on the top half of Page 1 of the instructions. Minor injury is not defined. If an injury does not meet the criteria for another injury category, select Minor.

Date of Last Flight Review or Equivalent: Enter the date of the most recent flight review, or equivalent, completed by this pilot. Refer to 14 CFR 61.56 for accepted equivalents.

Type Ratings: List all type ratings on the pilot certificate. If the pilot holds no type ratings indicate "none." If the pilot holds a pilot certificate other than student and was flying an aircraft requiring an endorsement, enter the type and date of any logbook endorsement(s) for that aircraft. See 14 CFR 61 for examples of required endorsements.

Student Endorsements: If the pilot holds a student pilot certificate, enter all solo endorsements and dates on the student pilot certificate.

Flight Time: Complete the flight time matrix. Solo flight time should be included as "Pilot-in-Command (PIC)" and all dual flight instruction given should be included as "Time as Instructor."

Additional Flight Crewmembers: Complete this section if there were more than two required flight crewmembers on the aircraft. This also includes a check airman performing official duties but does not include cabin crew. State the capacity served by each included crewmember at the time of the accident.

Passenger(s)/Other Personnel: Enter identification and injury severity information for all passengers, cabin crew, and other personnel involved in the accident. See Page 1 of the instructions for the official definition of injury levels.

Several questions throughout the form allow for multiple responses; when appropriate, choose all responses that apply.

These instructions only pertain to major issue areas covered by NTSB Form 6120.1 *Pilot/Operator Aircraft Accident/Incident Report*. For additional definitions of questions and responses, please refer to www.nts.gov.

NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: Rapid City State: SD
ZIP: 57703 Country: USA
Latitude: 44.0487873 Longitude: -103.0851088
(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

Date: 07/10/2022 Local Time: 17:55
mm/dd/yyyy Time Zone: Central

Collision with Other Aircraft: Midair On-ground None

AIRCRAFT INFORMATION

Registration Number: N478WT
Manufacturer: Piper
Model: PA-24-260B
Serial Number: 24-4634
Year of Manufacture: 1966
Amateur-Built: Yes ☐ No ☒ If Yes: Kit/Plans Make: _____
Original Design

IFR-Equipped and Certified
Commercial Space Flight
Unmanned Aircraft

Maximum Gross Weight: 3100 lbs
Weight at Time of Accident/Incident: 2604 lbs
Number of Seats: 4 Flight Crew Seats: 1
Cabin Crew Seats: _____ Passenger Seats: 3
Number of Engines: 1

Category of Aircraft

Airplane
Balloon
Blimp/Dirigible
Glider
Gyroplane
Helicopter
Powered Lift
Rocket
Ultralight
Unknown

Type of Airworthiness Certificate (Check all that apply)

Standard Special
☒ Normal ☐ Restricted
☐ Aerobatic ☐ Limited
☐ Balloon ☐ Provisional
☐ Commuter ☐ Special Flight
☐ Transport ☐ Experimental
☐ Utility ☐ Special Light-Sport
☐ Experimental Light-Sport
Certificate of Authorization or Waiver (COA)
None Unknown

Landing Gear

(Check all that apply)
☒ Retractable
☒ Tricycle Tailwheel
Amphibian High Skid
Emergency Float Skid
Float Ski
Hull Ski/Wheel
Other Launch/Recovery System
None Unknown

Engine Type (Select one)

Reciprocating Liquid Rocket
Turbo Shaft Solid Rocket
Turbo Prop Hybrid Rocket
Turbo Jet None
Turbo Fan Unknown
Electric

Fuel System Type (Reciprocating)

Carburetor Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Serial	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power Horsepower or lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	<u>Lycoming</u>	<u>IO-540-D4A5</u>	<u>L-3961-48</u>		<u>260</u>		<u>0.8</u>	<u>212.6</u>
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

100-Hour Continuous Airworthiness
AAIP Conditional Inspection
Annual Unknown

Date Last Inspection: 07/01/2022
mm/dd/yyyy

Airframe Total Time: 10456.1 hrs
hours measured at (Select one)
Last Inspection Time of Accident/Incident

Type of Maintenance Program (Select one)

Annual
Conditional (Amateur-built only)
Manufacturer's Inspection Program
Other Approved Inspection Program (AAIP)
Continuous Airworthiness
Other, specify: _____

Description of Fire Extinguishing System

None
Specify: Portable

Propeller 1

Fixed Pitch
Controllable Pitch
Ground Adjustable

Manufacturer: Hartzell
Model: HC-C2RK-1BF

ELT Installed: Yes No

If Yes:
ELT Manufacturer: _____
Model or Part No.: _____
TSO No.: C91 (121.5 MHz) C91a (121.5 MHz)
C126 (406 MHz)

Was ELT still mounted in aircraft? Yes No
Was ELT still connected to antenna? Yes No
Did ELT Activate? Yes No

If activated:
Did ELT Aid in Locating Aircraft: Yes No

If not activated:
Indicate Reason: Impact Damage
Fire Damage
Battery Expired/Damaged
Unknown

Propeller 2

Fixed Pitch
Controllable Pitch
Ground Adjustable

Manufacturer: _____
Model: _____

Additional Equipment (Check all that apply)

☒ ADS-B
☐ Airframe Parachute
☒ Angle of Attack Indicator
☒ Autopilot
☐ Data Recorder
☒ Electronic Flight Bag or Handheld Device
☐ Electronic Multifunction Display
☐ Electronic Primary Flight Display
☐ Handheld GPS
☐ Heads Up Display
☒ Onboard Weather
☒ Satellite Tracking Device
☒ Stall Warning System
☐ Video Recording Device
Other, Specify: _____

"FLIGHT CREWMEMBER 1" INFORMATION

"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident

☒ Pilot ☐ Co-Pilot ☐ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew

"Flight Crewmember 1" was pilot flying ☒ Yes ☐ No

"Flight Crewmember 1" Identification

First Name: Jerry

City of Residence: Hill City

Middle Initial: M

State: SD ZIP: 57745

Last Name: Dayton

Country: USA

Age at time of Accident/Incident: 42 Date of Birth: 1980 mm/dd/yyyy

Certificate Number: [REDACTED]

Degree of Injury ☒ None ☐ Fatal ☐ Minor ☐ Unknown ☐ Serious		Seat Occupied ☒ Left ☐ Front ☐ Right ☐ Rear ☐ Center ☐ Single ☐ Unknown		Restraint Type <table border="0"> <tr> <th>Available</th> <th>Used</th> </tr> <tr> <td>☐ None</td> <td>☐ None</td> </tr> <tr> <td>☐ Lap only</td> <td>☐ Lap only</td> </tr> <tr> <td>☒ 3-point</td> <td>☒ 3-point</td> </tr> <tr> <td>☐ 4-point</td> <td>☐ 4-point</td> </tr> <tr> <td>☐ 5-point</td> <td>☐ 5-point</td> </tr> <tr> <td>☐ Unknown</td> <td>☐ Unknown</td> </tr> </table>		Available	Used	☐ None	☐ None	☐ Lap only	☐ Lap only	☒ 3-point	☒ 3-point	☐ 4-point	☐ 4-point	☐ 5-point	☐ 5-point	☐ Unknown	☐ Unknown	Inflatable Restraints ☒ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown
Available	Used																			
☐ None	☐ None																			
☐ Lap only	☐ Lap only																			
☒ 3-point	☒ 3-point																			
☐ 4-point	☐ 4-point																			
☐ 5-point	☐ 5-point																			
☐ Unknown	☐ Unknown																			
Pilot Certificate(s) (Check all that apply) ☒ None ☐ Flight Instructor ☐ Commercial ☐ US Military ☒ Private ☐ Recreational ☐ Airline Transport ☐ Foreign ☐ Student ☐ Sport ☐ Flight Engineer																				
Principal Occupation ☒ Pilot ☐ Other ☐ Unknown		Medical Certificate ☐ None ☒ Class 3 ☐ Class 1 ☐ Driver's License (Sport Pilot only) ☐ Class 2 ☐ Unknown		Medical Certificate Validity ☐ Without limitations/waivers ☐ Unknown ☒ With limitations/waivers ☐ N/A ☐ Special Issuance																
				Date of Last Medical <u>09/10/2020</u> mm/dd/yyyy																

Medical Certificate Limitations

Must wear corrective lenses.

Medical Certificate Special Issuance

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:

06/02/2021
mm/dd/yyyy

Flight Review Aircraft

Make: Piper
Model: PA-28-181

Airplane Rating(s) (Check all that apply) ☐ None ☒ Single-Engine Land ☐ Single-Engine Sea ☐ Multiengine Land ☐ Multiengine Sea	Other Aircraft Rating(s) (Check all that apply) ☐ None ☐ Airship ☐ Balloon ☐ Glider ☐ Gyroplane ☐ Helicopter ☐ Powered Lift	Instrument Rating(s) (Check all that apply) ☒ None ☐ Airplane ☐ Helicopter ☐ Powered Lift	Instructor Rating(s) (Check all that apply) ☒ None ☐ Airplane Single-Engine ☐ Airplane Multi-Engine ☐ Gyroplane ☐ Powered Lift ☐ Instrument Airplane ☐ Instrument Helicopter ☐ Glider ☐ Sport
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Type Ratings

Student Endorsements (Include dates)

Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	325.6	194.7	325.6		12.9					
Pilot in Command (PIC)	176.8	194.7	176.8		8.1		86.3			
Time as Instructor										
This Make/Model					6.7		70.5			
Last 90 Days	6.2	.4	6.2		0		2.0			
Last 30 Days	6.2	.4	6.2		0		2.0			
Last 24 Hours	0.5	0.5	0.5		0		0.3			

"FLIGHT CREWMEMBER 2" INFORMATION																																																																																																				
"Flight Crewmember 2" Responsibilities at the Time of Accident/Incident Pilot Co-Pilot Student Pilot Flight Instructor Check Pilot Flight Engineer Other Flight Crew																																																																																																				
"Flight Crewmember 2" was pilot flying Yes No																																																																																																				
"Flight Crewmember 2" Identification First Name: _____ Middle Initial: _____ Last Name: _____ City of Residence: _____ State: _____ ZIP: _____ Country: _____ Age at time of Accident/Incident: _____ Date of Birth: _____ mm/dd/yyyy																																																																																																				
Certificate Number: _____																																																																																																				
Degree of Injury None Fatal Minor Unknown Serious		Seat Occupied Left Front Unknown Right Rear Center Single			Restraint Type Available Used None None Lap only Lap only 3-point 3-point 4-point 4-point 5-point 5-point Unknown Unknown			Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown																																																																																												
Pilot Certificate(s) <i>(Check all that apply)</i> None Flight Instructor Commercial US Military Private Recreational Airline Transport Foreign Student Sport Flight Engineer																																																																																																				
Principal Occupation Pilot Other Unknown		Medical Certificate None Class 3 Class 1 Driver's License (Sport Pilot only) Class 2 Unknown			Medical Certificate Validity Without limitations/waivers Unknown With limitations/waivers N/A Special Issuance			Date of Last Medical mm/dd/yyyy																																																																																												
Medical Certificate Limitations																																																																																																				
Medical Certificate Special Issuance																																																																																																				
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: _____ mm/dd/yyyy				Flight Review Aircraft Make: _____ Model: _____																																																																																																
Airplane Rating(s) <i>(Check all that apply)</i> None Single-Engine Land Single-Engine Sea Multiengine Land Multiengine Sea		Other Aircraft Rating(s) <i>(Check all that apply)</i> None Airship Balloon Glider Gyroplane Helicopter Powered Lift		Instrument Rating(s) <i>(Check all that apply)</i> None Airplane Helicopter Powered Lift		Instructor Rating(s) <i>(Check all that apply)</i> None Airplane Single-Engine Airplane Multi-Engine Gyroplane Powered Lift Instrument Airplane Instrument Helicopter Helicopter Glider Sport																																																																																														
Type Ratings						Student Endorsements <i>(Include dates)</i>																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th rowspan="2" style="width: 20%;">Flight Time <i>(Enter appropriate number of hours in each box)</i></th> <th rowspan="2" style="width: 5%;">All Aircraft</th> <th rowspan="2" style="width: 5%;">This Make & Model</th> <th rowspan="2" style="width: 5%;">Airplane Single Engine</th> <th rowspan="2" style="width: 5%;">Airplane Multiengine</th> <th rowspan="2" style="width: 5%;">Night</th> <th colspan="2" style="width: 10%;">Instrument</th> <th rowspan="2" style="width: 5%;">Rotorcraft</th> <th rowspan="2" style="width: 5%;">Glider</th> <th rowspan="2" style="width: 5%;">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> </thead> <tbody> <tr> <td>Total Time</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Pilot in Command (PIC)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Time as Instructor</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>This Make/Model</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Last 90 Days</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Last 30 Days</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Last 24 Hours</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>											Flight Time <i>(Enter appropriate number of hours in each box)</i>	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time											Pilot in Command (PIC)											Time as Instructor											This Make/Model											Last 90 Days											Last 30 Days											Last 24 Hours										
Flight Time <i>(Enter appropriate number of hours in each box)</i>	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air																																																																																										
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ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)									
Crew Name and Address First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					Seat Occupied Left Front Center Rear Right Single Unknown		Injury None Minor Serious Fatal Unknown		
Pilot Certificate(s) (Check all that apply) None Flight Instructor Private Recreational Student Sport Commercial US Military Airline Transport Foreign Flight Engineer					Restraint Type: Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown		
Type Rating/Endorsement for Accident/Incident Aircraft? Yes No			Total Flight Time at the Time of this Accident/Incident: _____ hrs						
Crew Name and Address First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					Seat Occupied Left Front Center Rear Right Single Unknown		Injury None Minor Serious Fatal Unknown		
Pilot Certificate(s) (Check all that apply) None Flight Instructor Private Recreational Student Sport Commercial US Military Airline Transport Foreign Flight Engineer					Restraint Type: Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown		
Type Rating/Endorsement for Accident/Incident Aircraft? Yes No			Total Flight Time at the Time of this Accident/Incident: _____ hrs						
PASSENGER(S) / OTHER PERSONNEL (Include cabin crew, continue on separate sheet if necessary)									
Name and Address First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ Crew Passenger Other			Seat Left Center Right Unknown Row: _____	Injury None Minor Serious Fatal Unknown	Restraint Type Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown	Age Under 5 years If Under 5, Child Restraint Lap-Held Unknown	
Name and Address First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ Crew Passenger Other			Seat Left Center Right Unknown Row: _____	Injury None Minor Serious Fatal Unknown	Restraint Type Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown	Age Under 5 years If Under 5, Child Restraint Lap-Held Unknown	
Name and Address First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ Crew Passenger Other			Seat Left Center Right Unknown Row: _____	Injury None Minor Serious Fatal Unknown	Restraint Type Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown	Age Under 5 years If Under 5, Child Restraint Lap-Held Unknown	
Name and Address First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ Crew Passenger Other			Seat Left Center Right Unknown Row: _____	Injury None Minor Serious Fatal Unknown	Restraint Type Available None Lap Only 3-point 4-point 5-point Unknown Used None Lap Only 3-point 4-point 5-point Unknown		Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown	Age Under 5 years If Under 5, Child Restraint Lap-Held Unknown	

Last Departure Point	Time of Departure	Destination	Type Flight Plan Filed			
Airport ID: <u>KRAP</u>	Time: <u>18:02</u>	Airport ID: <u>KRAP</u>	<u>None</u>		VFR/IFR	
City: <u>Rapid City</u>		City: <u>Rapid City</u>	Company VFR		IFR	
State: <u>SD</u>	Time Zone: <u>MOT</u>	State: <u>SD</u>	Military VFR		Unknown	
Country: <u>USA</u>		Country: <u>USA</u>	VFR			
			Activated?	Yes	No	Unknown

Name	Special VFR	Special IFR	VFR Flight Following	Cruise
VFR	IFR	VFR On Top	Traffic Advisory	Unknown / NA

Class			Altitude of Flight Occurrence:
Class A	Class G	Military Operations Area (MOA)	5,200 ft msl
Class B	Demo Area	Airport Advisory Area	
Class C	Warning Area	Jet Training Area	
Class D	Prohibited Area	TRSA	
Class E	Restricted Area	FAR 93	

Source of Pilot Weather Information (Check all that apply)		Weather Observation Facility	
☒ National Weather Service ☐ Flight Service Station ☐ TV/Radio ☒ Automated Report ☐ Commercial Weather Service (DUATS) ☐ On-Board Weather	☐ Company ☐ Military ☐ Internet ☐ None ☐ Unknown	Facility ID: <u>KRAP</u> Observation Time: <u>17:55</u> Time Zone: <u>MOT</u> Distance from Accident Site: <u>1.1</u> nm Direction from Accident Site: <u>85°</u> degrees true	

Basic Conditions	Light Condition			
VMC	Dawn	Dusk	Dark Night	Unknown
IMC	Day	Night	Bright Night	
Unknown				

Sky/Lowest Cloud Condition Clear Few Partial Obscuration Scattered Thin Broken Thin Overcast Unknown	Ceiling None (Clear) Broken Overcast Obscured Indefinite Unknown	Temperature: _____ (C) or _____ (F) Dew Point: _____ (C) or _____ (F) Altimeter Setting: _____ in. Hg or _____ MB
Lowest Cloud Condition Height _____ ft agl	Ceiling Height _____ ft agl	

Wind Direction Variable -or- Direction: _____ degrees true	Wind Speed Calm Light and Variable -or- Speed: _____ kts	Wind Gusts Not Gusting -or- Speed: _____ kts	Visibility <u>104</u> miles RVR: _____ feet RVV: _____ miles Density Altitude: _____ ft
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Intensity of Precipitation	Type of Precipitation (Check all that apply)			Restriction to Visibility (Check all that apply)	
Light	<u>None</u>	Drizzle	Freezing Rain	<u>None</u>	Fog
Moderate	Rain	Ice Pellets	Snow Shower	Blowing Dust	Ground Fog
Heavy	Snow	Snow Pellets	Ice Pellets Shower	Blowing Sand	Haze
N/A	Hail	Snow Grains	Freezing Drizzle	Blowing Snow	Ice Fog
Unknown	Rain Showers	Ice Crystals		Blowing Spray	Smoke
				Dust	Unknown

Icing Forecast		Icing Actual		Turbulence	
Amount	Type	Amount	Type	Type (Check all that apply)	Severity
None	N/A	None	N/A	None	Light
Trace	Rime	Trace	Rime	Clear Air	Moderate
Light	Clear	Light	Clear	Terrain-Induced	Severe
Moderate	Mixed	Moderate	Mixed	Convective Turbulence	Extreme
Severe	Unknown	Severe	Unknown		
Unknown		Unknown			

None that impacted flight

DAMAGE TO AIRCRAFT AND OTHER PROPERTY**Aircraft Damage**None
MinorSubstantial
Destroyed
Unknown**Aircraft Fire**None
In-Flight
On-GroundBoth Ground and In-Flight
Fire at Unknown Time
Unknown**Aircraft Explosion**None
In-Flight
On-GroundBoth Ground and In-Flight
Explosion at Unknown Time
Unknown**Description of Damage to Aircraft and Other Property** (Use additional sheet if necessary)

Gear: Broken off
Airframe: Belly Damaged
Rear Horizontal Stabilizer: Dented by gear strike
Prop: Ground Strike (1 blade bent)

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and and location, services obtained, and intended destination. Provide as much detail as possible.

See Attached.

With regards to the occurrence of 7/10/22 here are some notes to the best of my recollection leading up to the event. N478WT had recently completed its annual inspection as required by the FAR's. With that in mind, I decided to do short flight to W43 to check the airplane out and make sure everything was operating correctly prior to committing to a longer cross-country the next weekend. After the annual I did a thorough post maintenance inspection of the aircraft, this was on a day when I was not intending to fly so I could take my time. Then I did another thorough preflight before flying N478WT on July 8th, I flew the pattern and did 2 landings that day. I felt competent and in control of the aircraft that day and was looking forward to my next flight. I chose not to fly on July 9th because it was above 95 degrees. On Sunday the 10th I had a training flight in the local flight school aircraft late in the morning. Then I took a break, went out to get lunch, then hung around the FBO waiting for the wind to calm and temperature to lower. I did another thorough preflight of the aircraft while it was in the hanger, so I didn't feel rushed by the heat. Once completed I asked the line crew to pull out the aircraft. Once it was on the ramp, I pulled the chocks and did another walk around to make sure they didn't damage the aircraft pulling it out.

I climbed in, went through the pre-start checklist, started the plane with no issues. I input a general flight plan in the G430w: KRAP – KSPF – W43. This was just a backup flight plan as I planned to fly by ground reference, and I have made this trip several times in the past. Mindful that the aircraft's annual was still recently completed I chose that route to skirt north of the hills so that if there was an issue, I would not be over rugged terrain. I listened to the KRAP ASOS as a final confirmation of the weather. I received my taxi clearance from ATC and taxied to runway 32. I followed the checklist for runup, paying particular attention to the magnetos and cycling the prop. Everything seemed to be operating normally. I received my clearance to takeoff from runway 32 and took-off at about 18:00.

Takeoff and climb-out seemed normal. No runway remaining, gear up at 3,600 MSL, turnout at 3,900 MSL. I began flying toward the edge of where KRAP and KRCA airspaces meet so that I was not going through Ellsworth airspace. Everything was going as expected until I reached approximately 6,000 MSL when the engine began sputtering then cutout.

I immediately turned back to the airport and declared an emergency with ATC. I trimmed for best glide. ATC cleared the airport and I agreed to try and land on Runway 5 because it was closest to me. I switched tanks, I believe from left-main to right-main, but in the heat of the moment, I am not totally sure. I attempted to restart the engine 3 times. After the 3rd time the prop stopped spinning and was in a horizontal position on landing. I deployed some flaps when I realized I was not going to make it to the runway and informed ATC that I would be landing in the field short of the airport. The field was dirt with thigh high grass or straw growing in it.

In the final few moments, I tried to slow the aircraft as much as possible before touching down. There was initial contact on the landing gear. The aircraft bounced and on the second contact the gear collapsed. The aircraft began sliding on its belly and then spun counterclockwise (I think) and came to rest facing the opposite direction of my flight course. Apart from the gear breaking off, the plane was intact.

I informed ATC that I was down and uninjured. Then I shut down everything in the plane including the fuel selector (to hopefully prevent a fire) and stayed in contact with ATC on my handheld radio.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)

Was there Mechanical Malfunction/Failure? Yes No
(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

I have not received the FAA Report yet.

Total Time/Cycles
On Part

_____ Hours

_____ Cycles

Time Since This Part
Inspected/Overhauled

_____ Hours

FUEL & SERVICES INFORMATIONFuel on Board at Last Takeoff
(Convert from pounds, as necessary)

68

Gallons

Fuel Type

80/87

115/145

Jet B

Other, specify _____

100 Low Lead

Jet A

JP8

100/130

Jet A-1

Automotive

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFTWas an emergency evacuation of the aircraft performed? Yes No

Method of Exit - Describe how the occupants exited and how many occupants evacuated each location

I exited the main door as normal.

OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number

Manufacturer: _____

Model: _____

Damage to Other Aircraft

Destroyed

Minor

Substantial

None

Registered Owner of Other Aircraft

Name: _____

City: _____

State: _____

ZIP: _____

Country: _____

Pilot of Other Aircraft

Name: _____

City: _____

State: _____

ZIP: _____

Country: _____

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I did not record the weather on that day.

I remember it was a hot day but clear and mostly calm wind.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report

mm/dd/yyyy

Name of Pilot/Operator:

Jerry Dayton

Signature:

- or -

Check here to electronically sign this document

If a Person Other than Pilot/Operator is Filing Report

Name:

Title:

Signature:

- or -

Check here to electronically sign this document

FOR NTSB USE ONLY

NTSB Accident/Incident No.

CEN22LA313

Reviewed by NTSB Regional Office

Central Region

Name of Investigator

S. Williams

Date Report Received

10-12-22