

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: <u>Memphis</u> State: <u>Mo.</u> ZIP: <u>63555</u> Country: <u>USA</u> Latitude: <u>40.41N</u> Longitude: <u>92.18W</u> <i>(Enter in decimal degrees or degrees:minutes:seconds)</i>	Accident/Incident Date/Time Date: <u>07/31/2020</u> Local Time: <u>7:05 AM</u> <i>mm/dd/yyyy</i> Time Zone: <u>Central</u>
Collision with Other Aircraft: <input type="radio"/> Midair <input type="radio"/> On-ground <input checked="" type="radio"/> None	

AIRCRAFT INFORMATION

Registration Number: <u>N90834</u> Manufacturer: <u>Cessna</u> Model: <u>A188B</u> Serial Number: <u>18803322T</u> Year of Manufacture: <u>1979</u> Amateur-Built: <input type="radio"/> Yes <input checked="" type="radio"/> No <i>If Yes:</i> <input type="radio"/> Kit/Plans <input type="radio"/> Original Design Make: _____	<input type="checkbox"/> IFR-Equipped and Certified <input type="checkbox"/> Commercial Space Flight <input type="checkbox"/> Unmanned Aircraft Maximum Gross Weight: <u>3300</u> lbs Weight at Time of Accident/Incident: <u>3100</u> lbs Number of Seats: <u>1</u> Flight Crew Seats: <u>1</u> Cabin Crew Seats: _____ Passenger Seats: _____ Number of Engines: <u>1</u>
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Category of Aircraft <input checked="" type="radio"/> Airplane <input type="radio"/> Balloon <input type="radio"/> Blimp/Dirigible <input type="radio"/> Glider <input type="radio"/> Gyroplane <input type="radio"/> Helicopter <input type="radio"/> Powered Lift <input type="radio"/> Rocket <input type="radio"/> Ultralight <input type="radio"/> Unknown	Type of Airworthiness Certificate <i>(Check all that apply)</i> <table style="width: 100%;"> <tr> <th style="text-align: left;">Standard</th> <th style="text-align: left;">Special</th> </tr> <tr> <td><input type="checkbox"/> Normal</td> <td><input checked="" type="checkbox"/> Restricted</td> </tr> <tr> <td><input type="checkbox"/> Aerobatic</td> <td><input type="checkbox"/> Limited</td> </tr> <tr> <td><input type="checkbox"/> Balloon</td> <td><input type="checkbox"/> Provisional</td> </tr> <tr> <td><input type="checkbox"/> Commuter</td> <td><input type="checkbox"/> Special Flight</td> </tr> <tr> <td><input type="checkbox"/> Transport</td> <td><input type="checkbox"/> Experimental</td> </tr> <tr> <td><input type="checkbox"/> Utility</td> <td><input type="checkbox"/> Special Light-Sport</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Experimental Light-Sport</td> </tr> </table> <input type="checkbox"/> Certificate of Authorization or Waiver (COA) <input type="checkbox"/> None <input type="checkbox"/> Unknown	Standard	Special	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Restricted	<input type="checkbox"/> Aerobatic	<input type="checkbox"/> Limited	<input type="checkbox"/> Balloon	<input type="checkbox"/> Provisional	<input type="checkbox"/> Commuter	<input type="checkbox"/> Special Flight	<input type="checkbox"/> Transport	<input type="checkbox"/> Experimental	<input type="checkbox"/> Utility	<input type="checkbox"/> Special Light-Sport		<input type="checkbox"/> Experimental Light-Sport	Landing Gear <i>(Check all that apply)</i> <input type="checkbox"/> Retractable <input type="checkbox"/> Tricycle <input checked="" type="checkbox"/> Tailwheel <input type="checkbox"/> Amphibian <input type="checkbox"/> High Skid <input type="checkbox"/> Emergency Float <input type="checkbox"/> Skid <input type="checkbox"/> Float <input type="checkbox"/> Ski <input type="checkbox"/> Hull <input type="checkbox"/> Ski/Wheel <input type="checkbox"/> Other Launch/Recovery System <input checked="" type="checkbox"/> None <input type="checkbox"/> Unknown	Engine Type (Select one) <input checked="" type="radio"/> Reciprocating <input type="radio"/> Liquid Rocket <input type="radio"/> Turbo Shaft <input type="radio"/> Solid Rocket <input type="radio"/> Turbo Prop <input type="radio"/> Hybrid Rocket <input type="radio"/> Turbo Jet <input type="radio"/> None <input type="radio"/> Turbo Fan <input type="radio"/> Unknown <input type="radio"/> Electric Fuel System Type (Reciprocating) <input type="radio"/> Carburetor <input checked="" type="radio"/> Fuel-Injected
Standard	Special																		
<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Restricted																		
<input type="checkbox"/> Aerobatic	<input type="checkbox"/> Limited																		
<input type="checkbox"/> Balloon	<input type="checkbox"/> Provisional																		
<input type="checkbox"/> Commuter	<input type="checkbox"/> Special Flight																		
<input type="checkbox"/> Transport	<input type="checkbox"/> Experimental																		
<input type="checkbox"/> Utility	<input type="checkbox"/> Special Light-Sport																		
	<input type="checkbox"/> Experimental Light-Sport																		

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power <input checked="" type="radio"/> Horsepower or <input type="radio"/> lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	TCM	IO 520 D	566855		300	2797.0	87.8	1531.5
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type <input type="radio"/> 100-Hour <input type="radio"/> Continuous Airworthiness <input type="radio"/> AAIP <input type="radio"/> Conditional Inspection <input checked="" type="radio"/> Annual <input type="radio"/> Unknown Date Last Inspection: <u>04/15/2020</u> <i>mm/dd/yyyy</i> Airframe Total Time: <u>1531.5</u> hrs hours measured at <i>(Select one)</i> <input type="radio"/> Last Inspection <input checked="" type="radio"/> Time of Accident/Incident	Propeller 1 <input type="radio"/> Fixed Pitch <input checked="" type="radio"/> Controllable Pitch <input type="radio"/> Ground Adjustable Manufacturer: <u>McCaughey</u> Model: <u>D2A34C98-NO</u>	Propeller 2 <input type="radio"/> Fixed Pitch <input type="radio"/> Controllable Pitch <input type="radio"/> Ground Adjustable Manufacturer: _____ Model: _____
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Type of Maintenance Program (Select one) <input checked="" type="radio"/> Annual <input type="radio"/> Conditional (Amateur-built only) <input type="radio"/> Manufacturer's Inspection Program <input type="radio"/> Other Approved Inspection Program (AAIP) <input type="radio"/> Continuous Airworthiness <input type="radio"/> Other, specify: _____	ELT Installed: <input type="radio"/> Yes <input checked="" type="radio"/> No If Yes: ELT Manufacturer: _____ Model or Part No.: _____ TSO No.: <input type="radio"/> OC91 (121.5 MHz) <input type="radio"/> OC91a (121.5 MHz) <input type="radio"/> OC126 (406 MHz) Was ELT still mounted in aircraft? <input type="radio"/> Yes <input type="radio"/> No Was ELT still connected to antenna? <input type="radio"/> Yes <input type="radio"/> No Did ELT Activate? <input type="radio"/> Yes <input type="radio"/> No If activated: Did ELT Aid in Locating Aircraft? <input type="radio"/> Yes <input type="radio"/> No If not activated: Indicate Reason: <input type="checkbox"/> Impact Damage <input type="checkbox"/> Fire Damage <input type="checkbox"/> Battery Expired/Damaged <input type="checkbox"/> Unknown	Additional Equipment (Check all that apply) <input type="checkbox"/> ADS-B <input type="checkbox"/> Airframe Parachute <input type="checkbox"/> Angle of Attack Indicator <input type="checkbox"/> Autopilot <input type="checkbox"/> Data Recorder <input type="checkbox"/> Electronic Flight Bag or Handheld Device <input type="checkbox"/> Electronic Multifunction Display <input type="checkbox"/> Electronic Primary Flight Display <input type="checkbox"/> Handheld GPS <input type="checkbox"/> Heads Up Display <input type="checkbox"/> Onboard Weather <input type="checkbox"/> Satellite Tracking Device <input checked="" type="checkbox"/> Stall Warning System <input type="checkbox"/> Video Recording Device <input type="checkbox"/> Other, Specify: _____
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Description of Fire Extinguishing System <input checked="" type="radio"/> None <input type="radio"/> Specify: _____
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OWNER/OPERATOR INFORMATION**Registered Aircraft Owner**Name: Woods Flying Service LLCCity: MemphisState: MoZIP: 63555Fractional Ownership Aircraft: Yes NoCountry: USA**Operator of Aircraft** Same As Registered Owner Same Address as Registered Owner

Name: _____

City: _____

Doing Business As: _____

State: _____

ZIP: _____

Air Carrier/Operator Designator (4 Character Code): _____

Country: _____

Operating Certificates Held*(Check all that apply)*

- None
 Flag Carrier Operating Certificate (FAR 121)
 Supplemental
 Air Cargo
 Foreign Air Carriers (FAR 129)
 Rotorcraft External Load (FAR 133)
 Commuter Air Carrier (FAR 135)
 On-Demand Air Taxi (FAR 135)
 Commercial Air Tour (FAR 136)
 Agricultural Aircraft (FAR 137)
 Pilot School (FAR 141)
 Certificate of Authorization or Waiver (COA)
 Commercial Space Transportation Experimental Permit
 Commercial Space Transportation License
 Other Operator of Large Aircraft

Regulation Flight Conducted Under

- FAR 91 FAR 129 FAR 415
 FAR 103 FAR 133 FAR 431
 FAR 121 FAR 135 FAR 435
 FAR 125 FAR 137 FAR 437

- FAR 91 Special Flight
 Non-US, Commercial
 Non-US, Non-commercial

 Public Aircraft *(Select one)*

- Armed Forces
 Federal
 State
 Local

 Unknown**Revenue Operation for FAR 121, 125, 129, 135***(Select one for each group)*

- Scheduled or Commuter Domestic
 Non-Scheduled or Air Taxi International

- Passenger
 Cargo
 Mail Contract Only

Purpose of Flight for FAR 91, 103, 133, 137*(Select one)*

- Aerial Application Firefighting Unknown
 Aerial Observation Flight Test
 Air Drop Glider Tow
 Air Race/Show Instructional
 Banner Tow Other Work Use
 Business Personal
 Executive/Corporate Positioning
 External Load Skydiving
 Ferry

Revenue Sightseeing Flight Yes No**Air Medical Flight** Yes No**AIRPORT INFORMATION** (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)Airport Name: Private WoodDistance From Airport Center: .75 smAirport Identifier: NoneDirection From Airport: 174 degrees trueProximity to Airport: Off Airport/Airstrip On Airport/Airstrip N/AAirport Elevation: 805 ft. msl**Runway Information**Runway ID: 18/36 (L/R/C) Length: 3600 ft Width: 200 ft**Condition of Runway/Landing Surface** *(Check all that apply)***Runway/Landing Surface** *(Check all that apply)*

- Asphalt Grass/Turf Macadam Water
 Concrete Gravel Metal/Wood
 Dirt Ice Snow Unknown

- Dry Snow-Compacted Water-Calm
 Holes Snow-Crusted Water-Choppy
 Ice Covered Snow-Dry Water-Glassy
 Rough Snow-Wet Wet
 Rubber Deposits Soft
 Slush-Covered Vegetation Unknown

Approach/Departure Segment *(Select one)*

- Taxi VFR Departure On Instrument Approach Downwind Low Approach
 Takeoff IFR Departure Procedure/Clearance Landing Base Go Around
 Initial Climb Final Crosswind Aborted Landing (after touchdown)
 Unknown

IFR Approach *(Check all that apply)*

- None
 ADF/NDB PAR MLS Practice
 SDF Sidestep LDA GPS
 VOR/TVOR ILS ASR
 VOR/DME Localizer Only Visual
 TACAN LOC-back course Contact
 RNAV Circling
 Unknown

VFR Approach *(Check all that apply)*

- None
 Traffic Pattern Stop and Go
 Straight-In Touch and Go
 Valley/Terrain Following Simulated Forced Landing
 Go Around Forced Landing
 Full Stop Precautionary Landing
 Unknown

"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: Kenneth

City of Residence: Ward

Middle Initial: H

State: Arkansas ZIP: 72176

Last Name: Stump

Country: USA

Age at time of Accident/Incident: 59 Date of Birth: [REDACTED] mm/dd/yyyy

Certificate Number: [REDACTED]

Degree of Injury <input type="radio"/> None <input type="radio"/> Fatal <input checked="" type="radio"/> Minor <input type="radio"/> Unknown <input type="radio"/> Serious	Seat Occupied <input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Unknown <input type="radio"/> Right <input type="radio"/> Rear <input type="radio"/> Center <input checked="" type="radio"/> Single	Restraint Type Available <input type="radio"/> None <input type="radio"/> Lap only <input checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown Used <input type="radio"/> None <input type="radio"/> Lap only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Inflatable Restraints <input checked="" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer		Medical Certificate Validity <input type="radio"/> Without limitations/waivers <input type="radio"/> Unknown <input checked="" type="radio"/> With limitations/waivers <input type="radio"/> N/A <input type="radio"/> Special Issuance	
Principal Occupation <input checked="" type="radio"/> Pilot <input type="radio"/> Other <input type="radio"/> Unknown	Medical Certificate <input type="radio"/> None <input type="radio"/> Class 3 <input type="radio"/> Class 1 <input type="radio"/> Driver's License (Sport Pilot only) <input checked="" type="radio"/> Class 2 <input type="radio"/> Unknown	Date of Last Medical <u>06/22/2020</u> <i>mm/dd/yyyy</i>	

Medical Certificate Limitations

Must have available glasses for near vision

Medical Certificate Special Issuance

None

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

11/11/2018
mm/dd/yyyy

Flight Review Aircraft

Make: Piper

Model: PA28-160

Airplane Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	Other Aircraft Rating(s) <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instrument Rating(s) <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	Instructor Rating(s) <i>(Check all that apply)</i> <input checked="" type="checkbox"/> None <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> 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	2,153	153	1,989	42	64	5	64			
Pilot in Command (PIC)	2,153	153	1,989							
Time as Instructor										
This Make/Model										
Last 90 Days	211	26	211							
Last 30 Days	159	26	159							
Last 24 Hours	13	13	13							

"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: _____ City of Residence: _____

Middle Initial: _____ State: _____ ZIP: _____

Last Name: _____ 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
<input type="radio"/> None	<input type="radio"/> None
<input type="radio"/> Lap only	<input type="radio"/> Lap only
<input type="radio"/> 3-point	<input type="radio"/> 3-point
<input type="radio"/> 4-point	<input type="radio"/> 4-point
<input type="radio"/> 5-point	<input type="radio"/> 5-point
<input type="radio"/> Unknown	<input type="radio"/> Unknown

Inflatable Restraints

Not Installed
 Installed
 Not Deployed
 Deployed
 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

_____ *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) (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
 Helicopter
 Glider
 Sport

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										
Pilot in Command (PIC)										
Time as Instructor										
This Make/Model										
Last 90 Days										
Last 30 Days										
Last 24 Hours										

ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)

Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer	Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Flight Time at the Time of this Accident/Incident: _____ hrs	

Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer	Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> 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	Seat	Injury	Restraint Type	Inflatable Restraints	Age
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown

FLIGHT ITINERARY INFORMATION

Last Departure Point Airport ID: <u>N/A</u> City: <u>Memphis</u> State: <u>Missouri</u> Country: <u>USA</u>	Time of Departure Time: <u>7:00AM</u> Time Zone: <u>Central</u>	Destination Airport ID: <u>Return</u> City: _____ State: _____ Country: _____	Type Flight Plan Filed <input checked="" type="radio"/> None <input type="radio"/> VFR/IFR <input type="radio"/> Company VFR <input type="radio"/> IFR <input type="radio"/> Military VFR <input type="radio"/> Unknown <input type="radio"/> VFR Activated? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown
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Type of ATC Clearance/Service (Check all that apply)

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Special VFR	<input type="checkbox"/> Special IFR	<input type="checkbox"/> VFR Flight Following	<input type="checkbox"/> Cruise
<input type="checkbox"/> VFR	<input type="checkbox"/> IFR	<input type="checkbox"/> VFR On Top	<input type="checkbox"/> Traffic Advisory	<input type="checkbox"/> Unknown / NA

Airspace where the accident/incident occurred (Check all that apply)

<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class G	<input type="checkbox"/> Military Operations Area (MOA)	<input type="checkbox"/> Special	Altitude of In-Flight Occurrence: <u>50</u> ft msl
<input type="checkbox"/> Class B	<input type="checkbox"/> Demo Area	<input type="checkbox"/> Airport Advisory Area	<input type="checkbox"/> Air Traffic Control Area	
<input type="checkbox"/> Class C	<input type="checkbox"/> Warning Area	<input type="checkbox"/> Jet Training Area	<input type="checkbox"/> Unknown	
<input type="checkbox"/> Class D	<input type="checkbox"/> Prohibited Area	<input type="checkbox"/> TRSA		
<input type="checkbox"/> Class E	<input type="checkbox"/> Restricted Area	<input type="checkbox"/> FAR 93		

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Source of Pilot Weather Information (Check all that apply) <input type="checkbox"/> National Weather Service <input type="checkbox"/> Flight Service Station <input type="checkbox"/> TV/Radio <input type="checkbox"/> Automated Report <input type="checkbox"/> Commercial Weather Service (DUATS) <input checked="" type="checkbox"/> On-Board Weather <input type="checkbox"/> Company <input type="checkbox"/> Military <input type="checkbox"/> Internet <input type="checkbox"/> None <input type="checkbox"/> Unknown	Weather Observation Facility Facility ID: <u>N/A</u> Observation Time: _____ Time Zone: _____ Distance from Accident Site: _____ nm Direction from Accident Site: _____ degrees true
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Basic Conditions <input checked="" type="radio"/> VMC <input type="radio"/> IMC <input type="radio"/> Unknown	Light Condition <input type="radio"/> Dawn <input type="radio"/> Dusk <input type="radio"/> Dark Night <input type="radio"/> Unknown <input checked="" type="radio"/> Day <input type="radio"/> Night <input type="radio"/> Bright Night	
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Sky/Lowest Cloud Condition <input type="radio"/> Clear <input type="radio"/> Thin Broken <input type="radio"/> Few <input type="radio"/> Thin Overcast <input type="radio"/> Partial Obscuration <input type="radio"/> Unknown <input type="radio"/> Scattered	Ceiling <input type="radio"/> None (Clear) <input type="radio"/> Obscured <input checked="" type="radio"/> Broken <input type="radio"/> Indefinite <input type="radio"/> Overcast <input type="radio"/> Unknown	Temperature: _____ (C) or <u>68</u> (F) Dew Point: _____ (C) or <u>59</u> (F) Altimeter Setting: <u>800</u> in. Hg or <u>29.96</u> MB
Lowest Cloud Condition Height <u>19500</u> ft agl	Ceiling Height <u>19500</u> ft agl	

Wind Direction <input type="checkbox"/> Variable -or- Direction: <u>NE</u> degrees true	Wind Speed <input type="checkbox"/> Calm <input type="checkbox"/> Light and Variable -or- Speed: <u>3.5</u> kts	Wind Gusts <input type="checkbox"/> Not Gusting -or- Speed: <u>10.4</u> kts	Visibility <u>14</u> miles RVR: _____ feet RVV: _____ miles Density Altitude: _____ ft
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Intensity of Precipitation <input type="radio"/> Light <input type="radio"/> Moderate <input type="radio"/> Heavy <input checked="" type="radio"/> N/A <input type="radio"/> Unknown	Type of Precipitation (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Drizzle <input type="checkbox"/> Freezing Rain <input type="checkbox"/> Rain <input type="checkbox"/> Ice Pellets <input type="checkbox"/> Snow Shower <input type="checkbox"/> Snow <input type="checkbox"/> Snow Pellets <input type="checkbox"/> Ice Pellets Shower <input type="checkbox"/> Hail <input type="checkbox"/> Snow Grains <input type="checkbox"/> Freezing Drizzle <input type="checkbox"/> Rain Showers <input type="checkbox"/> Ice Crystals	Restriction to Visibility (Check all that apply) <input checked="" type="checkbox"/> None <input type="checkbox"/> Fog <input type="checkbox"/> Blowing Dust <input type="checkbox"/> Ground Fog <input type="checkbox"/> Blowing Sand <input type="checkbox"/> Haze <input type="checkbox"/> Blowing Snow <input type="checkbox"/> Ice Fog <input type="checkbox"/> Blowing Spray <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Unknown
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Icing Forecast Amount: <input checked="" type="radio"/> None <input type="radio"/> Trace <input type="radio"/> Light <input type="radio"/> Moderate <input type="radio"/> Severe <input type="radio"/> Unknown Type: <input type="radio"/> N/A <input type="radio"/> Rime <input type="radio"/> Clear <input type="radio"/> Mixed <input type="radio"/> Unknown	Icing Actual Amount: <input checked="" type="radio"/> None <input type="radio"/> Trace <input type="radio"/> Light <input type="radio"/> Moderate <input type="radio"/> Severe <input type="radio"/> Unknown Type: <input type="radio"/> N/A <input type="radio"/> Rime <input type="radio"/> Clear <input type="radio"/> Mixed <input type="radio"/> Unknown	Turbulence Type (Check all that apply): <input checked="" type="checkbox"/> None <input type="checkbox"/> Clear Air <input type="checkbox"/> Terrain-Induced <input type="checkbox"/> Convective Turbulence Severity: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Extreme
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NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:

N/A

DAMAGE TO AIRCRAFT AND OTHER PROPERTY**Aircraft Damage**

- None Substantial
 Minor Destroyed
 Unknown

Aircraft Fire

- None Both Ground and In-Flight
 In-Flight Fire at Unknown Time
 On-Ground Unknown

Aircraft Explosion

- None Both Ground and In-Flight
 In-Flight Explosion at Unknown Time
 On-Ground Unknown

Description of Damage to Aircraft and Other Property *(Use additional sheet if necessary)*

Main Gear and Gear attach substantially Damaged (Suspect damage to airframe tubing). Prop and spinner substantially damaged. Rt Horz. Stab and Elevator sheared off. Lower Cowling substantially damaged. Spray system substantially damaged. Tail section substantially stressed.

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 location, services obtained, and intended destination. Provide as much detail as possible.

Performed preflight inspection in anticipation of of Ag operations. Released Control Stick Lock in the cockpit. Started at the Left wing checking Flaps and Ailerons. Removed tie-down strap and held in my hand. Checked fuel strainer Left wing, good. Proceeded to engine and checked fuel strainer, good. Checked oil level noting 1 quart low. Proceeded to Rt wing fuel strainer, good. Checked Right wing Aileron and flap, good. Removed Rt wing tie-down strap and held in hand. Proceeded to Tail section and removed tie-down strap holding all three straps in hand. Thinking I needed to get a quart of oil and hang up the tie-down straps, I neglected to note that a rudder lock had been installed (Locking devise was the same color red as the red striping on the aircraft). I had walked around the aircraft several times and simply did not notice the rudder lock. I am a contract pilot and the operator had the aircraft on the ready pad for me to preflight without any tie-downs or locks installed for the preceding 4 days (I had only been on site 5 days). I had not tied down the aircraft the night before and was not familiar with how the operator stored the aircraft when not in use. As the operator was busy preparing a second aircraft for the morning launch I decided to help out and ready my aircraft. I taxied aircraft to loading pad and did not notice anything unusual. At the loading pad and as the aircraft was loaded for spray ops it was not noticed that the rudder lock was still in place. Last thing prior to roll out, I check that the controls were free and correct. I could not see behind to verify rudder travel but the pedals felt normal. Upon roll out the aircraft started straight but did fade to the left. I corrected and it faded right. I was having to use braking to maintain direction which caused me to go long on the runway. Just as I was to pull back the throttle and abort the takeoff the aircraft tail came up, straighten out and started to fly. I was past the point of no return so I continued the take-off. Aircraft was slow and heavy and I held it in ground effect as long as possible. There was 10 foot high corn at the end of the runway. I drug the mains and the spray booms through the tops for about 10 yards. This caused leaf and corn tops to accumulate on the gear and spray booms increasing drag. The runway descends rapidly at the end to the sloping side of a valley. As the surface faded from underneath me I lost ground effect. I Pitched slightly and flew across the valley which was half a mile to the other side. I realized I was not going to clear the valley on the other side so I pithed slightly for higher altitude. The aircraft lost lift due to too much drag and began to sink rapidly. At this point, years of Safety seminars and recurring training took over and searched for the best place to land. I had preplanned an escape route on the first day I flew at that field and headed for it. A cash was imminent. I remembered from training that if I was going to crash to reduce the speed and impact using the terrain. In front of me was a small tree with tall heavy brush growing around it. I was going too dart the side of the hill so I flew through the tree and slowed the aircraft immediately. The aircraft nosed into the soft hill side as it had been raining off and on for past several days. The aircraft slid up hill on its nose and main gear 25 yards to a stop. The double impact was very violent but using the tree and tall bushes contributed to saving my life. Immediately, I shut down all electrical power and fuel then egressed to the left side of the aircraft. When help arrived I was standing at the main wing and felt a need to sit down which I did on the left Horizontal stab. I dropped my hands to my side and felt a bungee cord with my right hand. It was at that point, and much to my surprise, I realized the rudder lock was still in place. I was transported by the operator to the hospital. I received minor cuts, abrasions on both shoulders from the shoulder harness, whiplash to my neck and lower back. Treated and released. I must add that years of flying, attending Safety Seminars and various other training programs contributed greatly in being able to handle an emergency situation and surviving and accident. With only seconds to react, I only did what I had been taught when survival took over. I addition, just the accident itself will always remind me of doing a complete and thorough preflight inspection.

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

Operator/Owner Safety Recommendation

Painting the rudder lock a contrasting Bright color.
Placarding the instrument dash.
Safety briefing for pilots and ground crew.
Always doing a complete and through preflight inspection.

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.)

Total Time/Cycles On Part
____ Hours
____ Cycles
Time Since This Part Inspected/Overhauled
____ Hours

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff
(Convert from pounds, as necessary)
50 _____ 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 AIRCRAFT

Was an emergency evacuation of the aircraft performed? Yes No

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

Exit through the left side window/door

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

Aircraft Registration Number _____ **Manufacturer:** _____ **Damage to Other Aircraft**
Model: _____ 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 HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report 08/06/2020 <i>mm/dd/yyyy</i>	Name of Pilot/Operator: Kenneth H Stump Signature: _____ -- or -- <input type="checkbox"/> Check here to electronically sign this document
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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. C EN20CA320	Reviewed by NTSB Regional Office CENTRAL	Name of Investigator LINDBERG	Date Report Received 8/24/2020
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