



Aviation Investigation Final Report

| Location: | Chickala, Arkansas | Accident Number: | CEN23LA096 |
|-------------------------|--------------------------------------|----------------------|-------------|
| Date & Time: | January 26, 2023, 12:15 Local | Registration: | N188DL |
| Aircraft: | Maule MX-7-235 | Aircraft Damage: | Substantial |
| Defining Event: | Loss of control on ground | Injuries: | 2 None |
| Flight Conducted Under: | Part 91: General aviation - Personal | | |

Analysis

The pilot of the personal flight reported that the flight was destined to his privately-owned airstrip, which was covered with approximately six inches of "very wet and dense" snow. During landing rollout, the airplane's deceleration was typical but then decelerated faster than the pilot "could imagine." The airplane tail rose very quickly, and the airplane then nosed over coming to rest inverted. The airplane sustained substantial damage to the left and right wings, the vertical stabilizer, and the rudder. The pilot reported that there was no preaccident failures or malfunctions with the airplane that would have precluded normal operation. The pilot also reported that the accident could have been prevented by using a snow depth limit of four inches if its liquid water content is unknown, and if landing in similar conditions, to land with a little power to keep the tail down.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's decision to land on the snow-covered runway and his failure to attain/maintain aircraft control during landing rollout.

Findings Personnel issues Decision making/judgment - Pilot Aircraft Pitch control - Attain/maintain not possible Personnel issues Aircraft control - Pilot

Factual Information

| History of Flight | |
|----------------------|--------------------------------------------|
| Landing-landing roll | Loss of control on ground (Defining event) |
| Landing-landing roll | Collision with terr/obj (non-CFIT) |

Pilot Information

| Certificate: | Airline transport; Commercial; Flight instructor; Private | Age: | 70,Male |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| Airplane Rating(s): | Single-engine land; Multi-engine land | Seat Occupied: | Left |
| Other Aircraft Rating(s): | None | Restraint Used: | 3-point |
| Instrument Rating(s): | Airplane | Second Pilot Present: | No |
| Instructor Rating(s): | Airplane single-engine | Toxicology Performed: | |
| Medical Certification: | Class 3 With waivers/limitations | Last FAA Medical Exam: | October 12, 2021 |
| Occupational Pilot: | Yes | Last Flight Review or Equivalent: | October 12, 2021 |
| Flight Time: | 17400 hours (Total, all aircraft), 960 hours (Total, this make and model), 24 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft) | | |

Aircraft and Owner/Operator Information

| Aircraft Make: | Maule | Registration: | N188DL |
|----------------------------------|-------------------------------|-----------------------------------|-----------------|
| Model/Series: | MX-7-235 | Aircraft Category: | Airplane |
| Year of Manufacture: | 1985 | Amateur Built: | |
| Airworthiness Certificate: | Utility | Serial Number: | 10026C |
| Landing Gear Type: | Tailwheel | Seats: | 4 |
| Date/Type of Last Inspection: | January 31, 2022 Annual | Certified Max Gross Wt.: | 2500 lbs |
| Time Since Last Inspection: | | Engines: | 1 Reciprocating |
| Airframe Total Time: | 3329.6 Hrs | Engine Manufacturer: | Lycoming |
| ELT: | C126 installed, not activated | Engine Model/Series: | IO-540-W1A5D |
| Registered Owner: | Judah, LLC | Rated Power: | 235 Horsepower |
| Operator: | Pilot | Operating Certificate(s) Held: | None |

Meteorological Information and Flight Plan

| Conditions at Accident Site: | Visual (VMC) | Condition of Light: | Day |
|-----------------------------------------|-----------------------|-----------------------------------------|-------------------|
| Observation Facility, Elevation: | RUE,409 ft msl | Distance from Accident Site: | 10 Nautical Miles |
| Observation Time: | 11:53 Local | Direction from Accident Site: | 90° |
| Lowest Cloud Condition: | Clear | Visibility | 9 miles |
| Lowest Ceiling: | None | Visibility (RVR): | |
| Wind Speed/Gusts: | 6 knots / 15 knots | Turbulence Type Forecast/Actual: | / |
| Wind Direction: | | Turbulence Severity Forecast/Actual: | / |
| Altimeter Setting: | 30.31 inches Hg | Temperature/Dew Point: | 3°C / -4°C |
| Precipitation and Obscuration: | | | |
| Departure Point: | Hot Springs, AR (HOT) | Type of Flight Plan Filed: | None |
| Destination: | Chickala, AR | Type of Clearance: | None |
| Departure Time: | 11:45 Local | Type of Airspace: | Class G |

Airport Information

| Airport: | John Harris Field Airport AR05 | Runway Surface Type: | Grass/turf |
|----------------------|--------------------------------|----------------------------------|-----------------------|
| Airport Elevation: | 1770 ft msl | Runway Surface Condition: | Snow |
| Runway Used: | 36 | IFR Approach: | None |
| Runway Length/Width: | 3000 ft / 50 ft | VFR Approach/Landing: | Full stop;Straight-in |

Wreckage and Impact Information

| Crew Injuries: | 1 None | Aircraft Damage: | Substantial |
|------------------------|--------|-------------------------|-------------------------|
| Passenger Injuries: | 1 None | Aircraft Fire: | None |
| Ground Injuries: | | Aircraft Explosion: | None |
| Total Injuries: | 2 None | Latitude, Longitude: | 35.215919,-93.3049(est) |

Administrative Information

| Investigator In Charge (IIC): | Gallo, Mitchell |
|--------------------------------------|---------------------------------------------------------------------------------|
| Additional Participating Persons: | Bill Kelly; Federal Aviation Administration, Little Rock FSDO ; Little Rock, AR |
| Original Publish Date: | March 23, 2023 |
| Last Revision Date: | |
| Investigation Class: | Class 4 |
| Note: | The NTSB did not travel to the scene of this accident. |
| Investigation Docket: | https://data.ntsb.gov/Docket?ProjectID=106656 |

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available here.