



National Transportation Safety Board Aviation Accident Data Summary

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|--------------------------------|---|-------------------------|------------|
| Location: | Grand Forks, ND | Accident Number: | CEN09CA402 |
| Date & Time: | 07/01/2009, 1930 CDT | Registration: | N525ND |
| Aircraft: | CESSNA 172S | Injuries: | 1 None |
| Flight Conducted Under: | Part 91: General Aviation - Instructional | | |

Analysis

The accident occurred during the student pilot's third landing on his first solo flight. He reported that he flew the final approach between 72 and 74 knots and that he reduced engine power as the airplane crossed-over the runway numbers. He stated that the stall warning horn sounded as he flared, but the aircraft did not descend onto the runway. He reduced his yoke back pressure and the airplane landed hard on the runway. The airplane then proceeded to bounce several times before stabilizing on a landing rollout. An after-flight inspection revealed that one of the propeller blade tips was curled from contact with the runway and that the engine firewall was substantially deformed.

Flight Events

Landing-flare/touchdown - Hard landing
Landing-flare/touchdown - Abnormal runway contact

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
The student pilot's improper landing flare and recovery from a bounced landing.

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Landing flare-Incorrect use/operation - C
Personnel issues-Task performance-Use of equip/info-Aircraft control-Student pilot - C

Student Pilot Information

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|----------------------------------|--|------------------------------|------|
| Certificate: | Student | Age: | 21 |
| Airplane Rating(s): | None | Instrument Rating(s): | None |
| Other Aircraft Rating(s): | None | Instructor Rating(s): | None |
| Flight Time: | 18 hours (Total, all aircraft), 18 hours (Total, this make and model), 0 hours (Pilot In Command, all aircraft), 18 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft) | | |

Aircraft and Owner/Operator Information

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|---|---|-----------------------------|-----------------|
| Aircraft Manufacturer: | CESSNA | Registration: | N525ND |
| Model/Series: | 172S | Engines: | 1 Reciprocating |
| Operator: | UND Aerospace Foundation | Engine Manufacturer: | Lycoming |
| Air Carrier Operating Certificate: | None | Engine Model/Series: | IO-360-L2A |
| Flight Conducted Under: | Part 91: General Aviation - Instructional | | |

Meteorological Information and Flight Plan

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|---|----------------------------------|-------------------------------------|------------------------------|
| Observation Facility, Elevation: | KGFK, 845 ft msl | Weather Information Source: | Weather Observation Facility |
| Conditions at Accident Site: | Visual Conditions | Lowest Ceiling: | None |
| Condition of Light: | Day | Wind Speed/Gusts, Direction: | 6 knots, 330° |
| Temperature: | 21°C / 11°C | Visibility | 10 Miles |
| Precipitation and Obscuration: | No Obscuration; No Precipitation | | |
| Departure Point: | Grand Forks, ND (KGFK) | Destination: | Grand Forks, ND (KGFK) |

Airport Information

| | | | |
|-----------------------------|----------------------------------|----------------------------------|---------|
| Airport: | Grand Forks International (KGFK) | Runway Surface Type: | Asphalt |
| Runway Used: | 35L | Runway Surface Condition: | Dry |
| Runway Length/Width: | 7349 ft / 150 ft | | |

Wreckage and Impact Information

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|----------------------------|--------|----------------------------|-------------|
| Crew Injuries: | 1 None | Aircraft Damage: | Substantial |
| Passenger Injuries: | N/A | Aircraft Fire: | None |
| Ground Injuries: | N/A | Aircraft Explosion: | None |

Administrative Information

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|--------------------------------------|---|----------------------|------------|
| Investigator In Charge (IIC): | Andrew T Fox | Adopted Date: | 11/09/2009 |
| Note: | This accident report documents the factual circumstances of this accident as described to the NTSB. | | |
| Investigation Docket: | http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=74179 | | |

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report.