



National Transportation Safety Board Aviation Accident Data Summary

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|--------------------------------|--------------------------------------|-------------------------|--------------------|
| Location: | PINE CITY, MN | Accident Number: | CHI90FA252 |
| Date & Time: | 09/02/1990, 1217 CDT | Registration: | N733CH |
| Aircraft: | CESSNA 172N | Injuries: | 1 Fatal, 2 Serious |
| Flight Conducted Under: | Part 91: General Aviation - Personal | | |

Analysis

AFTER COMPLETING A X-COUNTRY FLT, THE PLT TOOK OFF WITH 2 PSGRS ABOARD TO FLY TO A NEARBY ARPT TO REFUEL. AFTER TAKING OFF FROM RWY 35, THE ENG LOST PWR. THE ACFT CRASHED ABT 1/4 MI NORTH OF THE RWY & TO THE LEFT OF THE RWY CENTERLINE. IMPACT OCCURRED IN A LEFT WING LOW ATTITUDE. THE ACFT CAME TO REST NOSE DOWN WITH THE TAIL BROKEN DOWN & TO THE RIGHT. ONLY ABT 7 OZ OF FUEL WAS FND IN THE ACFT. LATER, THE ENGE WAS SUCCESSFULLY RUN DURING AN OPNL CHECK. THE PLT HAD 3 HRS OF FLT TIME IN THIS MAKE & MODEL OF ACFT.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S MISJUDGEMENT OF THE FUEL SUPPLY, AND HIS FAILURE TO MAINTAIN ADEQUATE AIRSPEED. A FACTOR WAS THE PILOT'S LACK OF EXPERIENCE IN THE MAKE AND MODEL OF AIRCRAFT.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. FLUID,FUEL - EXHAUSTION
2. (C) FUEL SUPPLY - MISJUDGED - PILOT IN COMMAND
3. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND

Occurrence #3: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: DESCENT - EMERGENCY

Findings

4. (C) AIRSPEED(VSO) - NOT MAINTAINED - PILOT IN COMMAND
5. (C) STALL - INADVERTENT - PILOT IN COMMAND

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Pilot Information

| | | | |
|----------------------------------|---|------------------------------|------|
| Certificate: | Private | Age: | 20 |
| Airplane Rating(s): | Single-engine Land | Instrument Rating(s): | None |
| Other Aircraft Rating(s): | None | Instructor Rating(s): | None |
| Flight Time: | 105 hours (Total, all aircraft), 3 hours (Total, this make and model), 45 hours (Pilot In Command, all aircraft), 49 hours (Last 90 days, all aircraft), 11 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft) | | |

Aircraft and Owner/Operator Information

| | | | |
|---------------------------------------|--------------------------------------|-----------------------------|-----------------|
| Aircraft Make: | CESSNA | Registration: | N733CH |
| Model/Series: | 172N 172N | Engines: | 1 Reciprocating |
| Operator: | AERO CENTER ONE | Engine Manufacturer: | LYCOMING |
| Operating Certificate(s) Held: | None | Engine Model/Series: | O-320-H2AD |
| Flight Conducted Under: | Part 91: General Aviation - Personal | | |

Meteorological Information and Flight Plan

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|---|-------------------|-------------------------------------|------------------------------|
| Conditions at Accident Site: | Visual Conditions | Condition of Light: | Day |
| Observation Facility, Elevation: | STC, 1024 ft msl | Weather Information Source: | Weather Observation Facility |
| Lowest Ceiling: | None / 0 ft agl | Wind Speed/Gusts, Direction: | 6 knots / , 100° |
| Temperature: | 25° C | Visibility | 15 Miles |
| Precipitation and Obscuration: | | | |
| Departure Point: | (90D) | Destination: | MORA, MN (19D) |

Airport Information

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|-----------------------------|----------------------|----------------------------------|------------|
| Airport: | PINE CITY MUNI (90D) | Runway Surface Type: | Grass/turf |
| Runway Used: | 35 | Runway Surface Condition: | Dry |
| Runway Length/Width: | 2600 ft / 200 ft | | |

Wreckage and Impact Information

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|-----------------------------|--------------------|----------------------------|-----------|
| Crew Injuries: | 1 Serious | Aircraft Damage: | Destroyed |
| Passenger Injuries: | 1 Fatal, 1 Serious | Aircraft Fire: | None |
| Ground Injuries: | N/A | Aircraft Explosion: | None |
| Latitude, Longitude: | | | |

Administrative Information

Investigator In Charge (IIC): JOHN R VALLASTER Adopted Date: 11/23/1992

Investigation Docket: NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov, or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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