

# **Aviation Investigation Final Report**

Location:	MCGRATH, Minnes	sota	Accident Number:	CHI87LA049
Date & Time:	December 13, 1986	5, 23:20 Local	<b>Registration:</b>	N9198D
Aircraft:	PIPER	PA-22-150	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General av	iation - Personal		

## **Analysis**

AFTER DESCENDING TO MAINTAIN VFR AND ACCUMULATING CLEAR ICE ON BOTH THE STRUCTURE AND WINDSCREEN, THE PLT DECIDED TO MAKE A PRECAUTIONARY LANDING. DURING LANDING IN AN OPEN AREA, THE LEFT WING STRUCK TWO APPLE TREES AND THE ACFT BECAME AIRBORNE AGAIN. AFTER THE SECOND TOUCHDOWN, THE ACFT CONTACTED A TRACTOR SCOOP AND SLID TO A STOP WITHIN 'INCHES' OF A FARM BUILDING. THE PLT HAD RECEIVED A COMPLETE FSS WEATHER BRIEFING PRIOR TO DEPARTING GRAND FORKS, NORTH DAKOTA.

## **Probable Cause and Findings**

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

#### Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation: CRUISE - NORMAL

Findings

- 1. (F) WEATHER CONDITION ICING CONDITIONS
- 2. (F) WEATHER CONDITION LOW CEILING
- 3. LIGHT CONDITION NIGHT
- 4. (C) WEATHER EVALUATION INADEQUATE PILOT IN COMMAND
- 5. (C) FLIGHT INTO KNOWN ADVERSE WEATHER CONTINUED PILOT IN COMMAND

6. PRECAUTIONARY LANDING - ATTEMPTED - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: LANDING

Findings 7. OBJECT - TREE(S) 8. (C) WING - ICE 9. (F) WINDOW,FLIGHT COMPARTMENT WINDOW/WINDSHIELD - ICE

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT Phase of Operation: LANDING - ROLL

Findings 10. OBJECT - VEHICLE

## **Factual Information**

### **Pilot Information**

Certificate:	Private	Age:	50,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	November 24, 1986
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:		hours (Total, this make and model), 4 Ist 90 days, all aircraft), 4 hours (Last 3	

### Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N9198D
Model/Series:	PA-22-150 PA-22-150	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-6257
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	March 1, 1986 Annual	Certified Max Gross Wt.:	1950 lbs
Time Since Last Inspection:	174 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	5518 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-320-A1A
Registered Owner:	HOWARD F. NOLTE	Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night/bright
Observation Facility, Elevation:	MST ,841 ft msl	Distance from Accident Site:	85 Nautical Miles
Observation Time:	10:53 Local	Direction from Accident Site:	175°
Lowest Cloud Condition:	Unknown / 1300 ft AGL	Visibility	9 miles
Lowest Ceiling:	Overcast / 1300 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	15 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	-6°C / -7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	GRAND FORKS ,ND (GFK )	Type of Flight Plan Filed:	VFR
Destination:	SIRLEN , WI (Y52)	Type of Clearance:	None
Departure Time:	21:30 Local	Type of Airspace:	Class G

#### **Airport Information**

Airport:		Runway Surface Type:	Snow
Airport Elevation:	0 ft msl	Runway Surface Condition:	Snow
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Full stop;Precautionary landing

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	46.239414,-93.270263(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Dinwiddie, Carl
Additional Participating Persons:	GLEEN CHANEY; DES PLAINES , IL AMY M CARMIEN; DES PLAINES , IL RONALD SEBASTIAN; DES PLAINES , IL
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=13711

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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.