

Aviation Investigation Final Report

Location:	MCGRATH, Minnes	sota	Accident Number:	CHI87LA049
Date & Time:	December 13, 1986	5, 23:20 Local	Registration:	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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