



# **Aviation Investigation Final Report**

Location: CHEBOYGAN, Michigan Accident Number: CHI88LA187

Date & Time: August 1, 1988, 19:15 Local Registration: N4982Z

Aircraft: PIPER PA-22-108 Aircraft Damage: Substantial

**Defining Event:** 1 Serious, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

SHORTLY AFTER DEPARTURE, WHEN THE AIRCRAFT WAS APPROXIMATELY 30' IN THE AIR, THE AIRCRAFT'S RIGHT WING 'DROPPED HARD'. THE PILOT ATTEMPTED REMEDIAL ACTION, BUT WAS UNABLE TO REGAIN CONTROL OF THE AIRCRAFT BEFORE THE RIGHT WING TIP STRUCK THE GROUND. THE AIRCRAFT SKIDDED TO A STOP OFF THE RIGHT SIDE OF THE RUNWAY.

### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: LOSS OF CONTROL - IN FLIGHT Phase of Operation: TAKEOFF - INITIAL CLIMB

#### **Findings**

- 1. (C) AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 2. (F) LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 3. (C) STALL INADVERTENT PILOT IN COMMAND

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

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## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	35,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 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	October 30, 1986
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	135 hours (Total, all aircraft), 43 hours (Total, this make and model), 85 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

### **Aircraft and Owner/Operator Information**

Aircraft Make:	PIPER	Registration:	N4982Z
Model/Series:	PA-22-108 PA-22-108	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-8591
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	May 7, 1988 Annual	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:	7 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2382 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-235-C1B
Registered Owner:	RAU, DALE J.	Rated Power:	108 Horsepower
Operator:	RAU, DALE J.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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## Meteorological Information and Flight Plan

isual (VMC)	Condition of Light:	Day
	Distance from Accident Site:	
	Direction from Accident Site:	
lear	Visibility	10 miles
lone	Visibility (RVR):	
knots /	Turbulence Type Forecast/Actual:	/
0°	Turbulence Severity Forecast/Actual:	/
0 inches Hg	Temperature/Dew Point:	32°C / 18°C
lo Obscuration; No Precipitat	ion	
	Type of Flight Plan Filed:	None
	Type of Clearance:	None
9:15 Local	Type of Airspace:	Class G
il C	ear  one  knots /  o  inches Hg  o Obscuration; No Precipitat	Distance from Accident Site:  Direction from Accident Site:  Visibility  Direction from Accident Site:  Visibility  Direction from Accident Site:  Visibility  Turbulence Type Forecast/Actual:  Turbulence Severity Forecast/Actual:  Temperature/Dew Point:  Direction from Accident Site:  Visibility  Turbulence Type Forecast/Actual:  Turbulence Severity Forecast/Actual:  Turbulence Severity Forecast/Actual:  Type of Flight Plan Filed:  Type of Clearance:

### **Airport Information**

Airport:	CHEBOYGAN CITY Y15	Runway Surface Type:	Asphalt
Airport Elevation:	639 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	9	IFR Approach:	None
Runway Length/Width:	3500 ft / 75 ft	VFR Approach/Landing:	None

### Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 None	Latitude, Longitude:	45.640533,-84.460441(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Reeves, Jodi

Additional Participating Persons:

Original Publish Date: November 7, 1989

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=14130

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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.

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