



Aviation Investigation Final Report

Location: SALINE, Michigan Accident Number: CHI93LA011

Date & Time: October 16, 1992, 12:22 Local Registration: N2945Z

Aircraft: PIPER PA-22-160 Aircraft Damage: Destroyed

Defining Event: 1 Serious

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

THE PILOT TOOK OFF TO THE NORTH AND REACHED AN ALTITUDE OF APPROXIMATELY 500 FEET WHEN THE AIRPLANE APPEARED TO BE TURNING TO THE WEST. DURING THE TURN, IT ENTERED WHAT WAS DESCRIBED AS A 45 DEGREE NOSE DOWN ATTITUDE AND DESCENDED TO IMPACT WITH THE TERRAIN. WINDS AT A REPORTING STATION 4 NM FROM THE ACCIDENT SITE WERE REPORTED AS 280 DEGREE AT 25 KNOTS GUSTING TO 33 KNOTS. BOTH THE WEST AND EAST SIDES OF THE RUNWAY ARE LINED WITH TREES. POST ACCIDENT INSPECTION OF THE ENGINE AND FLIGHT CONTROLS FAILED TO REVEAL ANY FAILURE/MALFUNCTION.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO MAINTAIN AIRCRAFT CONTROL AND AIRSPEED.

Findings

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

Findings

- 1. (F) WEATHER CONDITION CROSSWIND
- 2. (F) WEATHER CONDITION GUSTS
- 3. (F) PLANNING/DECISION POOR PILOT IN COMMAND
- 4. (C) AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND

5. (C) AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND 6. STALL

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

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Factual Information

Pilot Information

Certificate:	Commercial	Age:	27,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	September 18, 1992
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	731 hours (Total, all aircraft), 103 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N2945Z
Model/Series:	PA-22-160 PA-22-160	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-6917
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	June 8, 1992 Annual	Certified Max Gross Wt.:	1950 lbs
Time Since Last Inspection:	103 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1641 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-320-B2B
Registered Owner:	PAUL D. CARTMAN, JR.	Rated Power:	160 Horsepower
Operator:	PAUL D. CARTMAN, JR.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	ARB ,839 ft msl	Distance from Accident Site:	4 Nautical Miles
Observation Time:	12:49 Local	Direction from Accident Site:	10°
Lowest Cloud Condition:	Unknown / 1700 ft AGL	Visibility	7 miles
Lowest Ceiling:	Overcast / 2500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	25 knots / 33 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	280°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	12:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	NOYE AIRSTRIP	Runway Surface Type:	Grass/turf
Airport Elevation:	840 ft msl	Runway Surface Condition:	Wet
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	2600 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	42.170341,-83.780982(est)

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Administrative Information

Investigator In Charge (IIC):

Additional Participating Persons:

ROY L JOHNSON; DETRIOT, MI MICHAEL D MCISAAC; DETROIT, MI
Original Publish Date:

August 31, 1993

Last Revision Date:

Investigation Class:

Class
Note:

Investigation Docket:

https://data.ntsb.gov/Docket?ProjectID=15607

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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