

Aviation Investigation Final Report

Location:	MADISON, Wiscon	sin	Accident Number:	CHI93LA006
Date & Time:	October 8, 1992, 1	1:52 Local	Registration:	N228R
Aircraft:	PIPER	PA-34-220T	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal			

Analysis

THE AIRPLANE SETTLED TO THE RUNWAY FROM AN ALTITUDE OF ABOUT 3 FEET DURING THE LANDING FLARE. THE AIRPLANE BOUNCED, CONTACTED THE RUNWAY WITH THE NOSE GEAR FIRST, AND PORPOISED 3 OR 4 TIMES PRIOR TO THE PILOT REGAINING CONTROL. SUBSTANTIAL DAMAGE TO THE WINGS AND FUSELAGE RESULTED FROM THE HARD LANDING. REPORTED WINDS AT THE TIME OF THE ACCIDENT WERE FROM 130 DEGREES AT 15 KNOTS GUSTING TO 21 KNOTS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: WAS THE PILOT'S INADEQUATE COMPENSATION FOR WIND CONDITIONS WHICH RESULTED IN AN IMPROPER FLARE. A FACTOR RELATED WAS THE GUSTY WIND CONDITION.

Findings

Occurrence #1: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) WEATHER CONDITION - GUSTS

2. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

3. (C) FLARE - IMPROPER - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	65,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 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	July 13, 1992
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1400 hours (Total, all aircraft), 320 hours (Total, this make and model), 1040 hours (Pilot In Command, all aircraft), 24 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N228R
Model/Series:	PA-34-220T PA-34-220T	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	348233145
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	September 5, 1992 Annual	Certified Max Gross Wt.:	4570 lbs
Time Since Last Inspection:	20 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	1320 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	TSIO-360-KB
Registered Owner:	JOSEPH T. STEUER	Rated Power:	220 Horsepower
Operator:	JOSEPH T. STEUER	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument (IMC)	Condition of Light:	Day
Observation Facility, Elevation:	MSN ,870 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	11:52 Local	Direction from Accident Site:	90°
Lowest Cloud Condition:	Unknown / 900 ft AGL	Visibility	4 miles
Lowest Ceiling:	Overcast / 900 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	15 knots / 21 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	14°C / 12°C
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:	MILWAUKEE , WI (MKE)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	11:00 Local	Type of Airspace:	Class E

Airport Information

Airport:	DANE COUNTY REGIONAL MSN	Runway Surface Type:	Concrete
Airport Elevation:	870 ft msl	Runway Surface Condition:	Dry
Runway Used:	13	IFR Approach:	VOR
Runway Length/Width:	5846 ft / 150 ft	VFR Approach/Landing:	None

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:	43.140777,-89.350891(est)

Administrative Information

Investigator In Charge (IIC):	Sullivan, Pamela		
Additional Participating Persons:	ROBERT BRANT; MILWAUKEE , WI		
Original Publish Date:	August 31, 1993		
Last Revision Date:			
Investigation Class:	<u>Class</u>		
Note:			
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=15603		

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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.