



Aviation Investigation Final Report

Location:	SNOHOMISH, Washington	Accident Number:	SEA82DA056
Date & Time:	August 4, 1982, 20:00 Local	Registration:	N5001Z
Aircraft:	PIPER PA-22-108	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE PILOT STATED THAT HE KEPT HIS SPEED UP AND LANDED FARTHER DOWN THE RUNWAY THAN USUAL DUE TO OTHER TRAFFIC. AFTER TOUCHDOWN HE FOUND THAT THE BRAKES HAD FAILED SO HE ATTEMPTED TO SLOW DOWN THE AIRCRAFT BY SWERVING BACK AND FORTH AND FINALLY TURNING OFF ON A TAXIWAY AT WHICH TIME THE AIRCRAFT NOSED OVER. THE PILOT STATED THAT EXAMINATION REVEALED THAT THE MASTER CYLINDER FAILED.

Probable Cause and Findings

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

Findings

Occurrence #1: OVERRUN
Phase of Operation: LANDING - ROLL

- Findings
1. (C) DISTANCE - MISJUDGED - PILOT IN COMMAND
 2. (C) AIRSPEED - MISJUDGED - PILOT IN COMMAND
-

Occurrence #2: NOSE OVER
Phase of Operation: LANDING - ROLL

Findings

3. (C) LANDING GEAR,NORMAL BRAKE SYSTEM - FAILURE,TOTAL

Factual Information

Pilot Information

Certificate:	Private	Age:	23, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	November 16, 1981
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	240 hours (Total, all aircraft), 240 hours (Total, this make and model), 220 hours (Pilot In Command, all aircraft), 180 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N5001Z
Model/Series:	PA-22-108 PA-22-108	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	228610
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3016 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	O-235-C1B
Registered Owner:	STEVEN W. HELL	Rated Power:	108 Horsepower
Operator:	STEVEN W. HELL	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Dusk
Observation Facility, Elevation:	VMC	Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 4500 ft AGL	Visibility	25 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	37°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	CORDALLS , OR	Type of Flight Plan Filed:	None
Destination:	SNOHOMISH , WA	Type of Clearance:	None
Departure Time:	16:50 Local	Type of Airspace:	

Airport Information

Airport:	HARVYFIELD S43	Runway Surface Type:	Asphalt
Airport Elevation:	0 ft msl	Runway Surface Condition:	Dry
Runway Used:	32	IFR Approach:	
Runway Length/Width:	2600 ft / 0 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	47.980304,-122.19992(est)

Administrative Information

Investigator In Charge (IIC):

Additional Participating Persons:

Original Publish Date: August 4, 1983

Last Revision Date:

Investigation Class: [Class](#)

Note:

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=72633>

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](#).