



National Transportation Safety Board Aviation Accident Final Report

Location:	HILTON HEAD, SC	Accident Number:	ATL88LA001
Date & Time:	10/03/1987, 1250 EDT	Registration:	N66090
Aircraft:	CESSNA 172P	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 None

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

THE STUDENT PLT WAS PERFORMING A CROSSWIND LANDING WHICH RESULTED IN A HARD LANDING. THE ACFT DRIFTED TO THE SIDE OF THE RWY AND ONE WHEEL WAS OFF THE PAVED SURFACE UPON THE NEXT TOUCHDOWN. THE STUDENT PLT ATTEMPTED TO HOLD THE ACFT STRAIGHT IN THE DIRECTION IT WAS GOING. THE NOSE WHEEL DROPPED IN A SHALLOW DITCH AND THE ACFT NOSED OVER.

Probable Cause and Findings

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

Findings

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) FLARE - MISJUDGED - PILOT IN COMMAND
 2. (F) WEATHER CONDITION - GUSTS
 3. (F) WEATHER CONDITION - CROSSWIND
 4. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND
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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

5. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

6. TERRAIN CONDITION - DITCH
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Occurrence #4: NOSE OVER

Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Student	Age:	, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	33 hours (Total, all aircraft), 33 hours (Total, this make and model), 3 hours (Pilot In Command, all aircraft), 33 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N66090
Model/Series:	172P 172P	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	17275963
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	09/15/1987, Annual	Certified Max Gross Wt.:	2150 lbs
Time Since Last Inspection:	43 Hours	Engines:	1 Reciprocating
Airframe Total Time:	1798 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-320D2J
Registered Owner:	ARCFT RENTAL & LEASING, INC	Rated Power:	160 hp
Operator:	LOW COUNTRY AIR SERVICE, INC.	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	SAV, 51 ft msl	Distance from Accident Site:	27 Nautical Miles
Observation Time:	1253 EDT	Direction from Accident Site:	260°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	20 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	14 knots / 20 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	26° C / 4° C
Precipitation and Obscuration:			
Departure Point:	NO.MYRTLE BCH, SC (GRE)	Type of Flight Plan Filed:	VFR
Destination:		Type of Clearance:	None
Departure Time:	1155 EDT	Type of Airspace:	Class G

Airport Information

Airport:	HILTON HEAD (49J)	Runway Surface Type:	Asphalt
Airport Elevation:	20 ft	Runway Surface Condition:	Dry
Runway Used:	21	IFR Approach:	None
Runway Length/Width:	4300 ft / 75 ft	VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	CHARLES T FOUTS	Report Date:	12/27/1988
Additional Participating Persons:	LANGLEY P SHEARER; WEST COLUMBIA, SC		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).