



National Transportation Safety Board Aviation Accident Data Summary

Location:	Mobile, AL	Accident Number:	ATL01LA101
Date & Time:	08/02/2001, 1130 CDT	Registration:	N7006A
Aircraft:	Cessna 172	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

On the second approach to land, the pilot elected to perform a touch-and-go landing with flaps retracted. As the pilot flared for the touchdown the airplane began to porpoise. When the airplane touched down, the pilot reported hearing a thud. Examination of the airplane failed to disclose a mechanical malfunction or a component failure. The airplane sustained structural damage to the nose gear assembly and engine firewall. The pilot reported that the landing winds were 180 degrees at 7 to 15 knots. runway 14.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's improper landing flare that resulted in a hard landing. A factor was the pilot induced porpoise.

Findings

Occurrence #1: HARD LANDING
Phase of Operation: LANDING

Findings

1. LANDING GEAR, NOSE GEAR - OVERLOAD
2. (F) PORPOISE/PILOT-INDUCED OSCILLATION - ENCOUNTERED - PILOT IN COMMAND
3. FUSELAGE, FIREWALL - OVERLOAD
4. (C) FLARE - IMPROPER - PILOT IN COMMAND

Pilot Information

Certificate:	Private	Age:	64
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):		Instructor Rating(s):	
Flight Time:	740 hours (Total, all aircraft), 230 hours (Total, this make and model), 584 hours (Pilot In Command, all aircraft), 12 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N7006A
Model/Series:	172	Engines:	1 Reciprocating
Operator:	On file	Engine Manufacturer:	Continental
Operating Certificate(s) Held:	None	Engine Model/Series:	O-300A
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KMOB, 215 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None	Wind Speed/Gusts, Direction:	12 knots / , 90°
Temperature:	30° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Mobile, AL (KBFM)	Destination:	Mobile, AL (KMOB)

Airport Information

Airport:	Mobile Downtown Airport (KMOB)	Runway Surface Type:	Asphalt
Runway Used:	14	Runway Surface Condition:	Dry
Runway Length/Width:	8521 ft / 150 ft		

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
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	Phillip Powell	Adopted Date:	02/20/2002
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/ .		

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