



National Transportation Safety Board Aviation Accident Data Summary

Location:	Bartow, FL	Accident Number:	MIA05CA068
Date & Time:	03/02/2005, 1225 EST	Registration:	N54550
Aircraft:	Cessna 305A	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot stated this was his first flight in this specific airplane and after a orientation flight, they returned to the Bartow Municipal Airport to land. Upon making a three point landing, the airplane seemed normal, but it then began to swerve to the left. The pilot corrected with rudder, but passed through the center line of the runway. The airplane then began to bounce traveling perpendicular to the centerline. The right main wheel separated from the spring shank and at this point it dug into the runway spinning aircraft to the right. The plane settled down on its belly, right wing low. The pilot-rated passenger stated that the preflight, takeoff, taxi, flight, and landing approach were all normal, until touchdown, when the airplane ground-looped. During the landing roll an uncontrolled turn to the left commenced, then it tightened up, damaging the landing gear and causing the wing tip to drag, followed by the propeller striking the runway. The aircraft came to rest after spinning 270-degrees, and stopped at the edge of the runway. The pilots stated there were no mechanical failures or malfunctions to the airplane or any of its systems prior to the accident.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilots failure to maintain directional control resulting in the airplane ground-looping. A factor in the accident was the pilots lack of total experience in the airplane make and model.

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER
Phase of Operation: LANDING - ROLL

Findings

1. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
2. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND
3. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Pilot Information

Certificate:	Private	Age:	64
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	2702 hours (Total, all aircraft), 1 hours (Total, this make and model), 2702 hours (Pilot In Command, all aircraft), 1 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Check Pilot Information

Certificate:	Commercial	Age:	71
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	Glider	Instructor Rating(s):	None
Flight Time:	5242 hours (Total, all aircraft), 50 hours (Total, this make and model), 5000 hours (Pilot In Command, all aircraft), 1 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N54550
Model/Series:	305A	Engines:	1 Reciprocating
Operator:	Raley-Strang Aviation, Inc.	Engine Manufacturer:	Continental
Operating Certificate(s) Held:	None	Engine Model/Series:	O-470
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:	BOW, 113 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 2500 ft agl	Wind Speed/Gusts, Direction:	Light and Variable / , Variable
Temperature:	50° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Bartow, FL (BOW)	Destination:	Bartow, FL (BOW)

Airport Information

Airport:	Bartow Municipal Airport (BOW)	Runway Surface Type:	Asphalt
Runway Used:	09	Runway Surface Condition:	Dry
Runway Length/Width:	5001 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	27.943333, -81.783333		

Administrative Information

Investigator In Charge (IIC): Jeff Kennedy **Adopted Date:** 06/08/2005

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

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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