



National Transportation Safety Board Aviation Accident Data Summary

Location:	NORTH LIMA, OH	Accident Number:	NYC99FA187
Date & Time:	08/01/1999, 1359 EDT	Registration:	N5526J
Aircraft:	Piper PA-32-260	Injuries:	4 Fatal, 1 Serious
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

After landing, the airplane's main fuel tanks were filled, and the five people got back onboard. The tail was almost touching the ground, and the airplane was sitting nose high. After takeoff, the airplane appeared to have a hard time climbing out, and was 'hanging on the prop.' The airplane turned toward a left downwind. It was initially nose high, then started to slowly lose altitude. Altitude loss quickened, the airplane's nose fell through, and the airplane maintained a sliding, left turn until it impacted the ground about 1/2 mile southwest of the airport. The engine was heard 'roaring' prior to impact, chordwise scratches were found on the propeller blades, and rotational marks were found on the starter housing. The estimated weight of the airplane was approximately 10 pounds under maximum gross weight, while center of gravity computations, using several different baggage loading scenarios, ranged from 1.1 inches, to 0.3 inches, forward of the aft center of gravity limit. Temperature at the time of the accident was 81 degrees Fahrenheit, and the density altitude was about 2,600 feet msl.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's loss of control of the airplane during a turn. Factors include the pilot's failure maintain sufficient airspeed, and his failure to maintain the airplane in proper trim.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: CLIMB

Findings

1. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
2. STALL/MUSH - INADVERTENT - PILOT IN COMMAND
3. (F) RUDDER TRIM - IMPROPER USE OF - PILOT IN COMMAND
4. (F) AIRSPEED(VSO) - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Pilot Information

Certificate:	Airline Transport	Age:	53
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	1768 hours (Total, all aircraft), 23 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N5526J
Model/Series:	PA-32-260 PA-32-260	Engines:	1 Reciprocating
Operator:	BARN SWALLOWS, INC.	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-540-E4B5
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:	YNG, 1060 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	12 knots / , 320°
Temperature:	27° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	(4G4)	Destination:	POTTSTOWN, PA (N47)

Airport Information

Airport:	YOUNGSTOWN ELSER METRO (4G4)	Runway Surface Type:	
Runway Used:	0	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	3 Fatal, 1 Serious	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

