

Aviation Investigation Final Report

Location:	Lonoke, Arkansas	Accident Number:	CHI08CA036
Date & Time:	October 13, 2007, 09:00 Local	Registration:	N8635Y
Aircraft:	Piper PA-30	Aircraft Damage:	Substantial
Defining Event:		Injuries:	4 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot inadvertently executed a hard landing on runway 18 (3,800 feet by 100 feet, turf). The pilot stated that he landed short in order to avoid back taxiing and to minimize delays for other aircraft. The pilot stated he "landed hard and struck the left prop on the ground." He subsequently taxied safely to parking. A post accident inspection revealed damage to the left wing inboard of the engine, and to the left side of the fuselage under the pilot's side window. The pilot reported no failures or malfunctions related to the aircraft prior to the accident.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's misjudgment of the landing flare resulting in a hard landing.

Findings

Occurrence #1: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 1. (C) FLARE - MISJUDGED - PILOT IN COMMAND

2. TERRAIN CONDITION - GRASS

Factual Information

The airplane was substantially damaged during a hard landing on runway 18 (3,800 feet by 100 feet, turf). The pilot reported that he landed short in order to avoid back taxiing and to minimize delays for other aircraft. The pilot stated he "landed hard and struck the left prop on the ground." He subsequently taxied safely to parking. A post accident inspection revealed damage to the left wing inboard of the engine, and to the left side of the fuselage under the pilot's side window. The pilot reported no failures or malfunctions related to the aircraft prior to the accident.

Certificate:	Commercial	Age:	39,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	October 1, 2006
Occupational Pilot:	No	Last Flight Review or Equivalent:	October 1, 2006
Flight Time:	4000 hours (Total, all aircraft), 90 hours (Total, this make and model), 3000 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Pilot Information

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N8635Y
Model/Series:	PA-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	30-1776
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	March 1, 2007 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Textron Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-320
Registered Owner:	On file	Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	LIT	Distance from Accident Site:	
Observation Time:	09:00 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 25000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.03 inches Hg	Temperature/Dew Point:	21°C / 10°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	N Little Rock, AR (ORK)	Type of Flight Plan Filed:	None
Destination:	Lonoke, AR (1AR9)	Type of Clearance:	None
Departure Time:	09:00 Local	Type of Airspace:	

Airport Information

Airport:	Country Air Estates 1AR9	Runway Surface Type:	Grass/turf
Airport Elevation:	250 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	3800 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	34.813888,-92

Administrative Information

Investigator In Charge (IIC):	Sorensen, Timothy
Additional Participating Persons:	Tommy J Arnold; FAA-Little Rock FSDO; Little Rock, AR
Original Publish Date:	January 31, 2008
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=67134

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.