



National Transportation Safety Board Aviation Accident Final Report

Location:	Alton, IL	Accident Number:	CHI07CA054
Date & Time:	01/03/2007, 1251 CST	Registration:	N364MA
Aircraft:	Cessna 172S	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

The student pilot reported that she was on her first solo flight and her first landing attempt when she flared "too early, bounced hard and ballooned." She said that she attempted to recover, but bounced a second time, and went off the left side of the runway as she aborted the landing. The airplane struck a runway sign, and sustained substantial damage.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's inadequate recovery from a bounced landing, which resulted in the airplane impacting a runway sign. A factor in the accident was the student pilot's misjudged landing flare.

Findings

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) FLARE - MISJUDGED - PILOT IN COMMAND

Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

2. (C) RECOVERY FROM BOUNCED LANDING - INADEQUATE - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: LANDING - ABORTED

Findings

3. OBJECT - AIRPORT SIGN/MARKER

Occurrence #4: GEAR COLLAPSED

Phase of Operation: LANDING

Findings

4. LANDING GEAR,MAIN GEAR STRUT - COLLAPSED

5. TERRAIN CONDITION - GROUND

Factual Information

Student Pilot Information

Certificate:	Student	Age:	36, Female
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 With Waivers/Limitations	Last FAA Medical Exam:	10/01/2006
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	40 hours (Total, all aircraft), 40 hours (Total, this make and model), 1 hours (Pilot In Command, all aircraft), 35 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N364MA
Model/Series:	172S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Utility	Serial Number:	172S8007
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	12/01/2006, 100 Hour	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4096.7 Hours as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:	BLP Investments, LTD.	Rated Power:	180 hp
Operator:	Langa Air Services	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ALN, 544 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1251 CST	Direction from Accident Site:	0°
Lowest Cloud Condition:		Visibility	10 Miles
Lowest Ceiling:	Broken / 15000 ft agl	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.16 inches Hg	Temperature/Dew Point:	8° C / 0° C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Alton, IL (ALN)	Type of Flight Plan Filed:	None
Destination:	Alton, IL (ALN)	Type of Clearance:	VFR
Departure Time:	1245 CST	Type of Airspace:	

Airport Information

Airport:	St. Louis Regional Airport (ALN)	Runway Surface Type:	Asphalt
Airport Elevation:	544 ft	Runway Surface Condition:	Dry
Runway Used:	17	IFR Approach:	None
Runway Length/Width:	6500 ft / 100 ft	VFR Approach/Landing:	Touch and Go; Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	38.890278, -90.046111

Administrative Information

Investigator In Charge (IIC):	Andrew T Fox	Report Date:	03/26/2007
Additional Participating Persons:	Phil Dixon; Federal Aviation Administration; St. Ann, MO		
Publish Date:			
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/ .		

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](#).