



Aviation Investigation Final Report

Location:	San Antonio, Texas	Accident Number:	DFW06CA043
Date & Time:	December 25, 2005, 17:00 Local	Registration:	N40FJ
Aircraft:	Mooney M20J	Aircraft Damage:	Substantial
Defining Event:		Injuries:	4 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The 1,520-hour airline transport pilot and the three passengers departed in a single-engine low-wing airplane on a local pleasure flight. Shortly after takeoff from the 2,890 foot long , by 40-foot wide asphalt runway, while the airplane was approximately 100 feet above the ground, it stalled, rolled to the left and nosed over toward the ground. The pilot was unable to maintain control of the airplane, but managed to level the wings before the airplane landed hard on the left side of the runway.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain sufficient airspeed on takeoff, which resulted in an inadvertent stall and subsequent hard landing.

Findings

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

Findings

1. (C) AIRSPEED - INADEQUATE - PILOT IN COMMAND
2. STALL/MUSH - INADVERTENT - PILOT IN COMMAND

Occurrence #2: HARD LANDING
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

The 1,520-hour airline transport pilot and the three passengers departed in a single-engine low-wing airplane on a local pleasure flight. Shortly after takeoff from the 2,890 foot long , by 40-foot wide asphalt runway, while the airplane was approximately 100 feet above the ground, it stalled, rolled to the left and nosed over toward the ground. The pilot was unable to maintain control of the airplane, but managed to level the wings before the airplane landed hard on the left side of the runway.

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor; Private	Age:	43, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2	Last FAA Medical Exam:	March 1, 2004
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1520 hours (Total, all aircraft), 200 hours (Total, this make and model), 20 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N40FJ
Model/Series:	M20J	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	24-3329
Landing Gear Type:	Retractable - Tricycle	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	O-360
Registered Owner:	Luxtrans LTD	Rated Power:	
Operator:	John Hermann	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Bulverde, TX (1T8)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:		Type of Airspace:	

Airport Information

Airport:	Bulverde Airpark 1T8	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	16	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	
Total Injuries:	4 None	Latitude, Longitude:	29.746665,-98.450553

Administrative Information

Investigator In Charge (IIC):	Yeager, Leah
Additional Participating Persons:	
Original Publish Date:	April 25, 2006
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=63002

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