



National Transportation Safety Board Aviation Accident Final Report

Location:	TERRELL, TX	Accident Number:	FTW86FPA13
Date & Time:	01/02/1986, 0730 CST	Registration:	N27Y
Aircraft:	BEECH E18S	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Business		

Analysis

THE PLT REPORTED THE ACFT YAWED LEFT ON TAKEOFF AND DESPITE ATTEMPTED REMEDIAL ACTION THE ACFT WOULD NOT CLEAR ODTACLESALONG THE FLT PATH. PWR WAS REDUCED AND A STRAIGHT IN LANDING WAS MADE IN A FLD APRX 1/4 MILE NORTH OF THE RWY. A WITNESS REPORTED THE ACFT WAS STILL IN GROUND EFFECT AT A POINT APRX 3000 FT DOWN THE RWY. WITNESS CONTINUED TO STATE THE ACFT TOUCHED DOWN NEAR THE END OF THE RWY, FULL PWR WAS ADDED AND THE ACFT WAS PULLED UP IN AN ATTEMPT TO CLIMB. THE ACFT THEN MUSHED TO GROUND IMPACT IN A FIELD. INVESTIGATION REVEALED THE ACFT WAS 269 LBS OVER MAX GROSS WEIGHT AT TAKEOFF AND THE AFT CG WAS 1.7 INCHES BEHIND THE AFT DATUM LIMIT. A LINE BOY WHO REFUELED THE ACFT JUST PRIOR TO THE ATTEMPTED TAKEOFF STATED THE ACFT WAS COVERED WITH FROST.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: TAKEOFF

Findings

1. (C) PREFLIGHT PLANNING/PREPARATION - IMPROPER - PILOT IN COMMAND
2. (C) ICE/FROST REMOVAL FROM AIRCRAFT - NOT PERFORMED - PILOT IN COMMAND
3. (C) AIRCRAFT WEIGHT AND BALANCE - EXCEEDED - PILOT IN COMMAND
4. (C) AIRSPEED(VLOF) - NOT OBTAINED - PILOT IN COMMAND
5. (C) ROTATION - ATTEMPTED - PILOT IN COMMAND
6. (C) STALL/MUSH

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Commercial	Age:	43, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	12/11/1985
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	13600 hours (Total, all aircraft), 2000 hours (Total, this make and model), 135 hours (Last 90 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N27Y
Model/Series:	E18S E18S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	BA-388
Landing Gear Type:	Retractable - Tailwheel	Seats:	2
Date/Type of Last Inspection:	02/21/1985, Annual	Certified Max Gross Wt.:	9700 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	9400 Hours	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	R-985-AN14B
Registered Owner:		Rated Power:	450 hp
Operator:	WAL-MART STORES, INC.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:	ADA, OK	Type of Clearance:	None
Departure Time:	0730 CST	Type of Airspace:	Class G

Airport Information

Airport:	TERRELL (TRL)	Runway Surface Type:	Asphalt
Airport Elevation:	474 ft	Runway Surface Condition:	Dry
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	4300 ft / 75 ft	VFR Approach/Landing:	None

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:	

Administrative Information

Investigator In Charge (IIC):	JOHN R ROBERTSON	Report Date:	
Additional Participating Persons:	THOMAS BLAKE		
Publish Date:			
Investigation Docket:	NTSB accident and incident docket 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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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](#).