



Aviation Investigation Final Report

Location:	Wheatland, Wyoming	Accident Number:	WPR12CA101
Date & Time:	February 11, 2012, 12:00 Local	Registration:	N382AL
Aircraft:	LEARJET INC 31A	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	4 None
Flight Conducted Under:	Part 135: Air taxi & commuter - Non-scheduled - Air Medical (Discretionary)		

Analysis

The operator reported that, as the airplane neared the destination airport, the flight crew prepared for landing. The runway appeared to have been plowed earlier in the day and was wet with a few patches of snow and ice. After a normal touchdown, the flight crew deployed the thrust reversers and applied brakes in an effort to gradually decelerate. The airplane began to veer to the right side of the runway and would not respond to the pilots' control inputs. The airplane continued off the runway surface traveling about 70 knots. The main landing gear collapsed and punctured the wings. The airplane incurred substantial damage to the right wing. The operator reported that there were no mechanical malfunctions or failures with the airplane that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight crew's loss of directional control during landing on an ice- and water-contaminated runway, which resulted in a runway excursion.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Environmental issues	Snow/slush/ice covered surface - Effect on operation
Environmental issues	Wet surface - Effect on operation

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Landing gear collapse

Pilot Information

Certificate:	Airline transport	Age:	65, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	September 16, 2011
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	12541 hours (Total, all aircraft), 384 hours (Total, this make and model)		

Co-pilot Information

Certificate:	Airline transport	Age:	45, Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	September 27, 2011
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	5501 hours (Total, all aircraft), 6 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	LEARJET INC	Registration:	N382AL
Model/Series:	31A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Transport	Serial Number:	192
Landing Gear Type:	Retractable - Tricycle	Seats:	10
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	2 Turbo fan
Airframe Total Time:		Engine Manufacturer:	Garrett
ELT:		Engine Model/Series:	TFE731-2-3B
Registered Owner:	MM AIR INC	Rated Power:	3500 Lbs thrust
Operator:	International Jet Services, Inc.	Operating Certificate(s) Held:	On-demand air taxi (135)

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:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	11 knots / None	Turbulence Type Forecast/Actual:	/
Wind Direction:	110°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.55 inches Hg	Temperature/Dew Point:	-11°C / -13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Centennial, CO (APA)	Type of Flight Plan Filed:	IFR
Destination:	Wheatland, WY (EAN)	Type of Clearance:	IFR
Departure Time:		Type of Airspace:	

Airport Information

Airport:	Phifer Airfield EAN	Runway Surface Type:	Asphalt
Airport Elevation:		Runway Surface Condition:	Ice;Snow;Wet
Runway Used:	08	IFR Approach:	Visual
Runway Length/Width:	5900 ft / 75 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	
Total Injuries:	4 None	Latitude, Longitude:	42.050834,-104.918609(est)

Administrative Information

Investigator In Charge (IIC):	Keliher, Zoe
Additional Participating Persons:	Bruce Hansen; Federal Aviation Administration; Casper, WY
Original Publish Date:	April 2, 2012
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=82868

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