



National Transportation Safety Board Aviation Accident Final Report

Location:	Santa Fe, NM	Accident Number:	DEN05CA001
Date & Time:	10/01/2004, 1500 MDT	Registration:	N714MX
Aircraft:	Cessna 185F	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

According to the pilot, he was performing touch and go landings on runway 20. During the landing roll, the pilot encountered a wind gust from the left which "weather cocked the plane to about 15 degrees left of centerline." The pilot stated that he applied power and full right rudder but was not able to straighten the airplane. He reduced engine power and applied brakes. The aircraft looped to the left and the right wing and elevator impacted the runway causing substantial damage. An inspection of the airplane systems revealed no anomalies. According to the Aviation Routine Weather Report at 1502 winds were recorded as 150 degrees at 7 knots with gusts to 15 knots.

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 aircraft control during the landing roll resulting in a ground loop. Contributing to the accident was the crosswind.

Findings

Occurrence #1: ON GROUND/WATER ENCOUNTER WITH WEATHER
Phase of Operation: LANDING - ROLL

Findings

1. (F) WEATHER CONDITION - CROSSWIND

Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER
Phase of Operation: LANDING - ROLL

Findings

2. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
3. GROUND LOOP/SWERVE

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING - ROLL

Findings

4. TERRAIN CONDITION - RUNWAY

Factual Information

Pilot Information

Certificate:	Commercial	Age:	52, Male
Airplane Rating(s):	Single-engine Land	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 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	02/04/2003
Occupational Pilot:		Last Flight Review or Equivalent:	07/17/2004
Flight Time:	3725 hours (Total, all aircraft), 19 hours (Total, this make and model), 3466 hours (Pilot In Command, all aircraft), 19 hours (Last 90 days, all aircraft), 19 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N714MX
Model/Series:	185F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	18504404
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-520D
Registered Owner:	On file	Rated Power:	300 hp
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Dawn
Observation Facility, Elevation:	SAF, 6344 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	1502 MDT	Direction from Accident Site:	20°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots / 15 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	150°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.2 inches Hg	Temperature/Dew Point:	19° C / -2° C
Precipitation and Obscuration:			
Departure Point:	Sante Fe, NM (SAF)	Type of Flight Plan Filed:	None
Destination:	Sante Fe, NM (SAF)	Type of Clearance:	None
Departure Time:	1430 MDT	Type of Airspace:	Class D

Airport Information

Airport:	Santa Fe Municipal Airport (SAF)	Runway Surface Type:	Asphalt
Airport Elevation:	6344 ft	Runway Surface Condition:	Dry
Runway Used:	200	IFR Approach:	None
Runway Length/Width:	8342 ft / 150 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:	35.616667, -106.088333

Administrative Information

Investigator In Charge (IIC):	David C Bowling	Report Date:	12/28/2004
Additional Participating Persons:	Ken Hand; FAA Flight Standards District Office; Albuquerque, NM		
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](#).