



National Transportation Safety Board Aviation Accident Data Summary

Location:	BROOMFIELD, CO	Accident Number:	FTW97FA207
Date & Time:	06/01/1997, 1321 MDT	Registration:	N86EX
Aircraft:	Canadair F-86E MK.6	Injuries:	1 Fatal, 2 Minor
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

During an airshow, the pilot was performing a reverse half-Cuban eight. He flew down the runway at approximately 400 feet above ground level (agl) and pulled up using a 45-degree nose up attitude. At approximately 2,500 feet agl, the pilot rolled the aircraft inverted and pulled to a vertical nose down attitude. He failed to recover from the dive and the aircraft struck the ground in a 5-degree nose down attitude with a high sink rate. Ground speed at the time of impact was approximately 485 knots. According to persons at the airshow who are aerobatics pilots, the maneuver being performed by this aircraft should be started no lower than 4,000 feet agl, and part of the altitude gain should be used to bleed off excess airspeed. Videos of the performance depict the speed brakes deployed, the vertical stabilizer moving up and down, and the leading edge devices deployed while the aircraft was in the dive.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: Inadequate planning and decision making by the pilot in starting the aerobatic maneuver at an insufficient altitude to successfully complete the maneuver.

Findings

Occurrence #1: ABRUPT MANEUVER
Phase of Operation: MANEUVERING

Findings

1. AEROBATICS - PERFORMED - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT

Findings

2. (C) AEROBATICS - MISJUDGED - PILOT IN COMMAND
3. (C) IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND

Pilot Information

Certificate:	Airline Transport; Commercial	Age:	63
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None

Flight Time:

Aircraft and Owner/Operator Information

Aircraft Make:	Canadair	Registration:	N86EX
Model/Series:	F-86E MK.6 F-86E MK.6	Engines:	1 Turbo Jet
Operator:	JACK M. ROSAMOND	Engine Manufacturer:	ORENDA
Operating Certificate(s) Held:	None	Engine Model/Series:	14
Flight Conducted Under:	Part 91: General Aviation -		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	BJC, 5671 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 25000 ft agl	Wind Speed/Gusts, Direction:	9 knots / , 130°
Temperature:	30° C	Visibility	70 Miles
Precipitation and Obscuration:			
Departure Point:	(BJC)	Destination:	

Airport Information

Airport:	JEFFERSON COUNTY (BJC)	Runway Surface Type:	Asphalt
Runway Used:	29R	Runway Surface Condition:	Dry
Runway Length/Width:	9000 ft / 100 ft		

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	2 Minor	Aircraft Explosion:	On-Ground

Latitude, Longitude:

Administrative Information

Investigator In Charge (IIC): NORMAN F WIEMEYER Adopted Date: 06/22/2000

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/>.

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