



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	Lorain, OH	<b>Accident Number:</b>	IAD05LA129
<b>Date &amp; Time:</b>	09/01/2005, 1950 EDT	<b>Registration:</b>	N821AA
<b>Aircraft:</b>	Dassault/Sud Falcon 20D	<b>Injuries:</b>	1 Minor, 1 None
<b>Flight Conducted Under:</b>	Part 135: Air Taxi & Commuter - Non-scheduled		

## Analysis

The small, twin-engine business jet was about 15 feet above the runway on takeoff, when a flock of birds from both sides of the runway flew up in front of the airplane. The number two engine "surged," and "loud reports" were heard before the copilot noted a complete loss of power on the number two engine instruments. The airplane climbed for about 10 seconds, before the copilot observed the gas producer (N1) gauge on the number one engine decay through 50 percent. The stall warning horn sounded, and the pilot adjusted the flight controls for landing. The airplane contacted the runway with the landing gear retracted, overran the runway, struck a fence, crossed a road, and came to rest in a cornfield about 1,000 feet beyond the initial point of ground contact. Post accident examination of both engines revealed evidence and damage consistent with multiple bird ingestion.

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The ingestion of multiple birds in each engine at takeoff, which resulted in a complete loss of engine power.

## Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT  
Phase of Operation: TAKEOFF

### Findings

1. (C) OBJECT - BIRD(S)  
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Occurrence #2: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL  
Phase of Operation: TAKEOFF

### Findings

2. 2 ENGINES - FOREIGN OBJECT DAMAGE  
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Occurrence #3: FORCED LANDING  
Phase of Operation: EMERGENCY DESCENT/LANDING  
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Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: EMERGENCY DESCENT/LANDING

## Pilot Information

<b>Certificate:</b>	Airline Transport; Flight Instructor	<b>Age:</b>	34
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane
<b>Flight Time:</b>	4444 hours (Total, all aircraft), 639 hours (Total, this make and model), 3756 hours (Pilot In Command, all aircraft), 63 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft)		

## Co-Pilot Information

<b>Certificate:</b>	Airline Transport	<b>Age:</b>	42
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane; Helicopter
<b>Other Aircraft Rating(s):</b>	Helicopter	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	2172 hours (Total, all aircraft), 193 hours (Total, this make and model), 827 hours (Pilot In Command, all aircraft), 123 hours (Last 90 days, all aircraft), 65 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Dassault/Sud	<b>Registration:</b>	N821AA
<b>Model/Series:</b>	Falcon 20D	<b>Engines:</b>	2 Turbo Fan
<b>Operator:</b>	USA Jet Airlines Inc	<b>Engine Manufacturer:</b>	General Electric
<b>Operating Certificate(s) Held:</b>	Supplemental; On-demand Air Taxi (135)	<b>Engine Model/Series:</b>	CF700-2D
<b>Flight Conducted Under:</b>	Part 135: Air Taxi & Commuter - Non-scheduled		

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Dusk
<b>Observation Facility, Elevation:</b>	LPR	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Lowest Ceiling:</b>	None	<b>Wind Speed/Gusts, Direction:</b>	4 knots / , 280°
<b>Temperature:</b>	22° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Lorain, OH (LPR)	<b>Destination:</b>	ST LOUIS, MO (STL)

## Airport Information

<b>Airport:</b>	Lorian County Airport (LPR)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	25	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	5002 ft / 100 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor, 1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Latitude, Longitude:</b>	41.345000, -82.178333		

## Administrative Information

**Investigator In Charge (IIC):** Brian C Rayner

**Adopted Date:** 08/29/2006

**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](mailto: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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