



National Transportation Safety Board Aviation Accident Final Report

Location:	Dayton, OH	Accident Number:	CEN10LA001
Date & Time:	10/01/2009, 0930 EDT	Registration:	N3635N
Aircraft:	DUSENBERRY MARK J 1905 WRIGHT FLYER	Aircraft Damage:	Substantial
Defining Event:	Loss of control in flight	Injuries:	1 Serious
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The airplane, which was built by the pilot, was a replica of the Wright Brothers 1905 airplane. The purpose of the flight was to practice in preparation for the 104th Anniversary of Practical Flight celebration. The accident occurred on the second flight of the day. After takeoff, the airplane climbed to an altitude of 15 to 20 feet, then entered a shallow descending right bank. The wings of the airplane leveled and the nose pitched up. The nose of the airplane then dropped and the airplane impacted the terrain. The airplane received substantial damage to the fuselage, wings, and elevator. A 4-knot tailwind prevailed at the time of the accident. Postaccident inspection of the airplane failed to reveal any preimpact failures or malfunctions.

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 control of the airplane during the flight, which resulted in an aerodynamic stall.

Findings

Aircraft	Performance/control parameters - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause)
Environmental issues	Tailwind - Not specified

Factual Information

On October 1, 2009, at 0930 eastern daylight time, an amateur built experimental Dusenberry 1905 Wright Flyer, N3635N, collided with the terrain following a loss of control shortly after taking off from the Huffman Prairie Flying Field at the Wright-Patterson AFB (FFO), Dayton, Ohio. The pilot received serious injuries. The airplane received substantial damage to the fuselage, wings, and elevator. The local flight was being operated under Title 14 Code of Federal Regulations Part 91. Visual meteorological conditions prevailed and no flight plan was filed. The flight originated just prior to the accident.

The accident occurred on the second flight of the day. A series of photos were submitted documenting both flights. On the accident flight, the photos show the airplane prior to takeoff up to and including the accident. After takeoff, the airplane climbed to an altitude of 15 to 20 feet. The airplane then entered a shallow descending right bank. The wings of the airplane leveled and the nose pitched up. The nose of the airplane then dropped and the airplane impacted the terrain.

The airplane, which was built by the pilot, was a replica of the Wright Brothers 1905 airplane. The purpose of the flight was to practice in preparation for the 104th Anniversary of Practical Flight celebration.

The pilot's logbook shows that he flew a total of 39 flights in the airplane. These flights totaled approximately 27 minutes of flight time.

A 4 knot tailwind prevailed at the time of the accident. A post accident inspection of the airplane failed to reveal any pre-impact failures/malfunctions.

History of Flight

Enroute-cruise	Aerodynamic stall/spin Loss of control in flight (Defining event)
Uncontrolled descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	49, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Center
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None None	Last Medical Exam:	06/30/2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	DUSENBERRY MARK J	Registration:	N3635N
Model/Series:	1905 WRIGHT FLYER	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Experimental	Serial Number:	1
Landing Gear Type:	Skid	Seats:	1
Date/Type of Last Inspection:	05/13/2009, Conditional	Certified Max Gross Wt.:	700 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	DUSENBERRY MARK J	Rated Power:	18 hp
Operator:	DUSENBERRY MARK J	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	FFO, 823 ft msl	Observation Time:	0925 EDT
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Few / 10000 ft agl	Temperature/Dew Point:	8°C / 6°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	4 knots, 150°	Visibility (RVR):	
Altimeter Setting:	30.11 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Dayton, OH (FFO)	Type of Flight Plan Filed:	None
Destination:	Dayton, OH (FFO)	Type of Clearance:	None
Departure Time:	0930 EDT	Type of Airspace:	Class G

Airport Information

Airport:	Huffman Prairie Flying Field (FFO)	Runway Surface Type:	Grass/turf
Airport Elevation:		Runway Surface Condition:	Rough
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious		

Administrative Information

Investigator In Charge (IIC):	Pamela S Sullivan	Adopted Date:	05/28/2010
Additional Participating Persons:	Mike Puehler; FAA-CIN-FSDO; Cincinnati, OH Robert Craig; FAA-CIN-FSDO; Cincinnati, OH		
Publish Date:	05/26/2010		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=74836		

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