



Aviation Investigation Final Report

Location: Louisa, Virginia Accident Number: ERA09LA506

Date & Time: September 5, 2009, 12:30 Local Registration: N3656V

Aircraft: Cessna 140 Aircraft Damage: Minor

Defining Event: Ground collision **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the tailwheel-equipped Cessna was taxiing to the runway for takeoff when she impacted a Lancair that was holding short of the runway. The Cessna pilot had seen the Lancair in front of her, but briefly lost sight of it prior to the collision. Following the collision, both pilots shut down their airplanes and exited without incident. They observed that the Cessna's propeller had struck the right horizontal stabilizer and empennage of the Lancair several times, resulting in substantial damage to the Lancair.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The Cessna pilot's inadequate visual lookout.

Findings

Personnel issues Monitoring other aircraft - Pilot

Factual Information

History of Flight

Taxi-to runway

Ground collision (Defining event)

On September 5, 2009, about 1230 eastern daylight time, an experimental amateur-built Lancair 235, N290W, was substantially damaged when it was struck by a taxiing Cessna 140, N3656V, at Louisa County Airport (LKU), Louisa, Virginia. The certificated private pilot of the Lancair, and the certificated private pilot of the Cessna, were not injured. Visual meteorological conditions prevailed at the time of the accident. Neither the Lancair pilot nor the Cessna pilot had filed flights plans for the personal flights, which were conducted under the provisions of Title 14 Code of Federal Regulations Part 91.

Both pilots were attending a fly-in event held at LKU, a non-towered airport with a single east-west oriented runway. Volunteer ground personnel were present on the day of the fly-in to assist marshaling aircraft out of the parking area.

According to the pilot of the Lancair, he started his airplane and was cleared by ground personnel to taxi to runway 27. While holding short of the runway, he conducted an engine runup and was waiting for two airplanes to land before taxiing onto the runway for takeoff. He then felt "impacts that lasted approximately 3 seconds."

The pilot of the tailwheel-equipped Cessna reported that she was taxiing to runway 27, and following the Lancair in front of her at "a safe distance" while conducting "proper turns." As she taxied up to the runway hold short line, she lost sight of the Lancair, and felt her airplane's propeller "strike something." The pilot stated that she "stopped" as soon as she realized what had happened.

Following the collision, both pilots shut down their airplanes and exited without incident. They observed that the Cessna's propeller had struck the right horizontal stabilizer and empennage of the Lancair several times, resulting in substantial damage to the Lancair.

The pilot of the Cessna held a private pilot certificate with a rating for airplane single engine land. She reported 1,875 total hours of flight experience, 1,600 hours of which were in the accident airplane make and model. Her most recent third-class FAA medical certificate was issued in July, 2009.

The pilot of the Lancair held a private pilot certificate with ratings for airplane single engine and multiengine land, and an instrument rating. He reported 3,570 hours total flight experience. His most recent third-class FAA medical certificate was issued in August, 2009.

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The weather conditions reported at LKU, at 1220, included winds from 310 degrees at 4 knots, 10 statute miles visibility, and clear skies.

The Federal Aviation Administration Airplane Flying Handbook (FAA-H-8083-3A) states, "Since a tailwheel-type airplane rests on the tailwheel as well as the main landing wheels, it assumes a nose-high attitude when on the ground...Consequently, objects directly ahead of the airplane are difficult, if not impossible, to see. To observe and avoid colliding with any objects or hazardous surface conditions, the pilot should alternately turn the nose from one side to the other – that is, zigzag, or make a series of short S-turns while taxiing forward."

Pilot Information

Certificate:	Private	Age:	85,Female
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	July 23, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 1875 hours (Total, all aircraft), 1600 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

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Aircraft Make:	Cessna	Registration:	N3656V
Model/Series:	140 A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	14927
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:		Engine Model/Series:	C90
Registered Owner:	Sara L Parmenter	Rated Power:	95 Horsepower
Operator:	Sara L Parmenter	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	LKU	Distance from Accident Site:	
Observation Time:	12:20 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Louisa, VA (LKU)	Type of Flight Plan Filed:	None
Destination:	Louisa, VA (LKU)	Type of Clearance:	
Departure Time:		Type of Airspace:	Air traffic control;Class D

Airport Information

Airport:	Louisa County/Freeman Field LKU	Runway Surface Type:	
Airport Elevation:	493 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Minor
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	38.005832,-77.968612(est)

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Administrative Information

Investigator In Charge (IIC): Diaz, Dennis

Additional Participating Persons: Mike Cook; FAA/FSDO; Richmond, VA

Original Publish Date: March 3, 2010

Last Revision Date: Investigation Class: Class

Note: Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=74677

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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Aviation Investigation Final Report

Location: Louisa, Virginia Accident Number: ERA09LA506

Date & Time: September 5, 2009, 12:30 Local Registration: N290W

Aircraft: Lancair 235 Aircraft Damage: Substantial

Defining Event: Ground collision **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the tailwheel-equipped Cessna was taxiing to the runway for takeoff when she impacted a Lancair that was holding short of the runway. The Cessna pilot had seen the Lancair in front of her, but briefly lost sight of it prior to the collision. Following the collision, both pilots shut down their airplanes and exited without incident. They observed that the Cessna's propeller had struck the right horizontal stabilizer and empennage of the Lancair several times, resulting in substantial damage to the Lancair.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The Cessna pilot's inadequate visual lookout.

Findings

Personnel issues Monitoring other aircraft - Pilot of other aircraft

Factual Information

History of Flight

Taxi-to runway

Ground collision

On September 5, 2009, about 1230 eastern daylight time, an experimental amateur-built Lancair 235, N290W, was substantially damaged when it was struck by a taxiing Cessna 140, N3656V, at Louisa County Airport (LKU), Louisa, Virginia. The certificated private pilot of the Lancair, and the certificated private pilot of the Cessna, were not injured. Visual meteorological conditions prevailed at the time of the accident. Neither the Lancair pilot nor the Cessna pilot had filed flights plans for the personal flights, which were conducted under the provisions of Title 14 Code of Federal Regulations Part 91.

Both pilots were attending a fly-in event held at LKU, a non-towered airport with a single east-west oriented runway. Volunteer ground personnel were present on the day of the fly-in to assist marshaling aircraft out of the parking area.

According to the pilot of the Lancair, he started his airplane and was cleared by ground personnel to taxi to runway 27. While holding short of the runway, he conducted an engine runup and was waiting for two airplanes to land before taxiing onto the runway for takeoff. He then felt "impacts that lasted approximately 3 seconds."

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The weather conditions reported at LKU, at 1220, included winds from 310 degrees at 4 knots, 10 statute miles visibility, and clear skies.

The Federal Aviation Administration Airplane Flying Handbook (FAA-H-8083-3A) states, "Since a tailwheel-type airplane rests on the tailwheel as well as the main landing wheels, it assumes a nose-high attitude when on the ground...Consequently, objects directly ahead of the airplane are difficult, if not impossible, to see. To observe and avoid colliding with any objects or hazardous surface conditions, the pilot should alternately turn the nose from one side to the other – that is, zigzag, or make a series of short S-turns while taxiing forward."

Pilot Information

Certificate:	Private	Age:	56,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	June 9, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	3400 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Lancair	Registration:	N290W
Model/Series:	235	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	115
Landing Gear Type:	Tricycle	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	10-320
Registered Owner:	Richard S Williams	Rated Power:	150 Horsepower
Operator:	Richard S Williams	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	LKU	Distance from Accident Site:	
Observation Time:	12:20 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Louisa, VA (LKU)	Type of Flight Plan Filed:	None
Destination:	Louisa, VA (LKU)	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Air traffic control;Class D

Airport Information

Airport:	Louisa County/Freeman Field LKU	Runway Surface Type:	
Airport Elevation:	493 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	38.005832,-77.968612(est)

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Administrative Information

Investigator In Charge (IIC): Diaz, Dennis

Additional Participating Persons: Mike Cook; FAA/FSDO; Richmond, VA

Original Publish Date: March 3, 2010

Last Revision Date: Investigation Class: Class

Note: Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=74677

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