



Aviation Investigation Final Report

Location:	Middleton, Wisconsin	Accident Number:	GAA15CA033
Date & Time:	April 1, 2015, 15:20 Local	Registration:	N777XX
Aircraft:	LANCAIR COMPANY LC 40 550FG	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

During a cross-country flight the pilot said he listened to the automated weather report a few miles west of his destination and noted crosswinds at 17 knots, gusting to 20 knots. The pilot continued the approach to landing and reported the touchdown was "uneventful," but during the landing roll a gust of wind rotated the nose 90 degrees into the crosswind. Subsequently, the airplane departed the runway surface and impacted a ditch adjacent to the runway, causing the nose wheel to collapse. The pilot reported no mechanical malfunctions or failures with the airplane that would have precluded normal operation.

Examination of the airplane revealed substantial damage to the engine firewall.

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 directional control during landing. Contributing to the accident was the pilot's inadequate compensation for the crosswind during landing.

Findings

Environmental issues	Crosswind - Response/compensation
Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Environmental issues	Sloped/uneven terrain - Contributed to outcome

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Runway excursion
Landing-landing roll	Collision with terr/obj (non-CFIT)
Landing-landing roll	Landing gear collapse

Pilot Information

Certificate:	Private	Age:	43
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	August 7, 2013
Occupational Pilot:	No	Last Flight Review or Equivalent:	September 6, 2014
Flight Time:	(Estimated) 229 hours (Total, all aircraft), 59 hours (Total, this make and model), 142 hours (Pilot In Command, all aircraft), 52 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	LANCAIR COMPANY	Registration:	N777XX
Model/Series:	LC 40 550FG 550FG	Aircraft Category:	Airplane
Year of Manufacture:	2002	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	40058
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	August 13, 2014 Annual	Certified Max Gross Wt.:	3400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	231 Hrs as of last inspection	Engine Manufacturer:	CONT MOTOR
ELT:	C91A installed, not activated	Engine Model/Series:	IO-550N2B
Registered Owner:	AHMED AL-NIAIMI	Rated Power:	310 Horsepower
Operator:	AHMED AL-NIAIMI	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KMSN,887 ft msl	Distance from Accident Site:	9 Nautical Miles
Observation Time:	19:53 Local	Direction from Accident Site:	81°
Lowest Cloud Condition:	Scattered / 25000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	17 knots / 22 knots	Turbulence Type Forecast/Actual:	/ Clear air
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/ Light
Altimeter Setting:	29.84 inches Hg	Temperature/Dew Point:	23°C / 3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	PRAIRIE DU CHIEN, WI (PDC)	Type of Flight Plan Filed:	None
Destination:	Middleton, WI (C29)	Type of Clearance:	VFR flight following
Departure Time:	14:55 Local	Type of Airspace:	Class G

Airport Information

Airport:	MIDDLETON MUNI - MOREY FIELD C29	Runway Surface Type:	Asphalt
Airport Elevation:	928 ft msl	Runway Surface Condition:	Dry
Runway Used:	28	IFR Approach:	None
Runway Length/Width:	4000 ft / 100 ft	VFR Approach/Landing:	Full stop

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:	43.113334,-89.533332(est)

Administrative Information

Investigator In Charge (IIC):	Gerhardt, Adam
Additional Participating Persons:	Michael E Batson; FAA; Milwaukee, WI
Original Publish Date:	June 9, 2015
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=90980

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