



Aviation Investigation Final Report

Location:	Wadsworth, Ohio	Accident Number:	CEN14CA260
Date & Time:	May 27, 2014, 17:00 Local	Registration:	N2774N
Aircraft:	Cessna 120	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The instructor pilot reported the student had approximately 30 hours of prior flight time in the accident airplane. The instructor and student were practicing tail wheel landings. On the third landing, the student touched down normally. During rollout, the instructor advised the student to lower the tail to eliminate tail rudder effectiveness. At that time, the student applied brakes causing the airplane to skid off the right side of the runway. The airplane overturned and came to rest inverted approximately 4 feet of the runway edge. A post-accident examination revealed the airplane sustained substantial damage to the firewall and vertical stabilizer.

In the instructor's written statement to the National Transportation Safety Board he noted that the accident might have been prevented if he taught braking effectiveness to lift the tail during high speed taxiing instead of during landings.

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 of the airplane during landing which resulted in a runway excursion.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot
Aircraft	Surface speed/braking - Incorrect use/operation

Factual Information

History of Flight

Landing-landing roll	Runway excursion (Defining event)
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Pilot Information

Certificate:	Commercial; Flight instructor	Age:	67
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	October 24, 2012
Flight Time:	9300 hours (Total, all aircraft), 600 hours (Total, this make and model), 9200 hours (Pilot In Command, all aircraft), 120 hours (Last 90 days, all aircraft), 70 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Student pilot Information

Certificate:	Private	Age:	59
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:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	September 27, 2010
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	May 14, 2014
Flight Time:	985 hours (Total, all aircraft), 35 hours (Total, this make and model), 904 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N2774N
Model/Series:	120 NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1946	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	12020
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	August 10, 2013 Annual	Certified Max Gross Wt.:	1451 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3911 Hrs as of last inspection	Engine Manufacturer:	CONT MOTOR
ELT:	C91 installed, not activated	Engine Model/Series:	C85 SERIES
Registered Owner:	SKYPARK INC	Rated Power:	85 Horsepower
Operator:	SKYPARK INC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	BJJ	Distance from Accident Site:	12 Nautical Miles
Observation Time:	20:56 Local	Direction from Accident Site:	210°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	13 knots / 20 knots	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.9 inches Hg	Temperature/Dew Point:	29°C / 17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Wadsworth, OH (15G)	Type of Flight Plan Filed:	None
Destination:	Wadsworth, OH (15G)	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

Airport Information

Airport:	WELTZIEN SKYPARK 15G	Runway Surface Type:	Asphalt
Airport Elevation:	1210 ft msl	Runway Surface Condition:	
Runway Used:	03	IFR Approach:	None
Runway Length/Width:	2410 ft / 37 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	41.029998,-81.779998(est)

Administrative Information

Investigator In Charge (IIC): Liedler, Courtney

Additional Participating Persons:

Original Publish Date: October 9, 2014

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=89296>

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