



# Aviation Investigation Final Report

<b>Location:</b>	Kinsey, Kansas	<b>Accident Number:</b>	GAA18CA439
<b>Date &amp; Time:</b>	July 20, 2018, 15:30 Local	<b>Registration:</b>	N49YX
<b>Aircraft:</b>	WAYNE D. TEEL Waix	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Runway excursion	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

According to the pilot, the tailwheel-equipped airplane encountered a strong crosswind gust from the left during the landing roll. The airplane turned left into the wind and then exited the left side of the runway. The airplane collided with cornstalks and came to rest in a drainage culvert.

The airplane sustained substantial damage to the right wing spar.

The pilot reported that there were no mechanical malfunctions or failures with the airplane that would have precluded normal operation.

An automated weather observation station located about 23 miles from accident site reported, about 26 minutes before the accident, wind from 100° at 16 knots, gusting to 20 knots. The airplane landed on runway 18.

## 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 the landing roll in gusting crosswind conditions.

## Findings

<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Gusts - Effect on operation
<b>Environmental issues</b>	Crosswind - Effect on operation
<b>Environmental issues</b>	(general) - Contributed to outcome

## Factual Information

### History of Flight

Landing	Other weather encounter
Landing	Runway excursion (Defining event)
Landing	Collision with terr/obj (non-CFIT)

### Pilot Information

Certificate:	Private	Age:	60,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
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:	October 11, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	December 26, 2016
Flight Time:	(Estimated) 459 hours (Total, all aircraft), 43 hours (Total, this make and model), 307 hours (Pilot In Command, all aircraft), 26 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	WAYNE D. TEEL	Registration:	N49YX
Model/Series:	Waix	Aircraft Category:	Airplane
Year of Manufacture:	2008	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	W0049
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	May 1, 2018 Condition	Certified Max Gross Wt.:	1250 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	219 Hrs as of last inspection	Engine Manufacturer:	VIKING AIRCRAFT ENGINES
ELT:	C91A installed	Engine Model/Series:	HF-110
Registered Owner:		Rated Power:	110 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KLQR, 2011 ft msl	<b>Distance from Accident Site:</b>	23 Nautical Miles
<b>Observation Time:</b>	20:56 Local	<b>Direction from Accident Site:</b>	40°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	16 knots / 20 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	100°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.88 inches Hg	<b>Temperature/Dew Point:</b>	36°C / 22°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Kinsey, KS (33K )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Kinsey, KS (33K )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:00 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Kinsley Muni 33K	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	2171 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	18	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3290 ft / 56 ft	<b>VFR Approach/Landing:</b>	Full stop; Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	38.526367, -96.725914(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Joseph Gonsalves; FAA; Wichita, KS
<b>Original Publish Date:</b>	June 5, 2019
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=97882">https://data.nts.gov/Docket?ProjectID=97882</a>

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