



Aviation Investigation Final Report

Location:	Bayou La Batre, Alabama	Accident Number:	GAA18CA284
Date & Time:	May 5, 2018, 17:00 Local	Registration:	N81FS
Aircraft:	Yakovlev YAK 52	Aircraft Damage:	Substantial
Defining Event:	Collision during takeoff/land	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

According to the pilot in the experimental, exhibition airplane, he departed from a grass airstrip about 1 hour after a rain shower. After a 15-minute pleasure flight, he landed on the same wet grass airstrip. He reported that the airplane touched down about 700 ft past the 2,000-ft-long runway's threshold at 75 knots with full flaps and the trim set nose up. He applied the brakes multiple times, but the airplane overran the departure end of the runway. The airplane's groundspeed was about 13 knots when the right wing struck a fence.

The airplane sustained substantial damage to the right-wing aileron.

In the recommendation section of the National Transportation Safety Board Pilot Aircraft Accident Report, the pilot asserted that the accident could have been prevented if he had taken into consideration "the reduced traction offered by the wet grass."

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

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's improper planning for landing on a wet grass airstrip, which resulted in a runway overrun.

Findings

Personnel issues	Aircraft control - Pilot
Personnel issues	(general) - Pilot
Aircraft	(general) - Not attained/maintained
Environmental issues	Wet surface - Effect on operation
Environmental issues	Fence/fence post - Contributed to outcome
Aircraft	Surface speed/braking - Not attained/maintained

Factual Information

History of Flight

Landing	Runway excursion
Landing-landing roll	Collision during takeoff/land (Defining event)

Pilot Information

Certificate:	Private	Age:	37,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	May 3, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	August 15, 2016
Flight Time:	(Estimated) 252.6 hours (Total, all aircraft), 40 hours (Total, this make and model), 210 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Yakovlev	Registration:	N81FS
Model/Series:	YAK 52 NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1993	Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	9311704
Landing Gear Type:	Retractable - Tricycle	Seats:	2
Date/Type of Last Inspection:	Condition	Certified Max Gross Wt.:	2900 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Vedeneyev
ELT:		Engine Model/Series:	M14P
Registered Owner:		Rated Power:	360 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KBFM, 26 ft msl	Distance from Accident Site:	13 Nautical Miles
Observation Time:	22:01 Local	Direction from Accident Site:	36°
Lowest Cloud Condition:	Scattered / 4100 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 8500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	340°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	24°C / 22°C
Precipitation and Obscuration:	Light - None - Rain		
Departure Point:	Bayou La Batre, AL (5R7)	Type of Flight Plan Filed:	None
Destination:	Bayou La Batre, AL (5R7)	Type of Clearance:	None
Departure Time:	16:45 Local	Type of Airspace:	Class G

Airport Information

Airport:	ROY E RAY 5R7	Runway Surface Type:	Grass/turf
Airport Elevation:	87 ft msl	Runway Surface Condition:	Wet
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	2000 ft / 150 ft	VFR Approach/Landing:	Full stop; Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	30.455278, -88.211112(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Todd Pryer; FAA; Birmingham, AL
Original Publish Date:	October 24, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=97275

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