



# National Transportation Safety Board Aviation Accident Data Summary

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<b>Location:</b>	Arlington, WI	<b>Accident Number:</b>	CEN16LA255
<b>Date &amp; Time:</b>	07/03/2016, 1650 CDT	<b>Registration:</b>	N6803Z
<b>Aircraft:</b>	PIPER PA 25-235	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

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## Analysis

The commercial pilot reported that he was conducting an agricultural application flight with the airplane at its maximum gross takeoff weight. He added that, after taking off toward the west, the airplane settled into a cornfield. He stated that there were no failures or malfunctions with the airplane preceding the accident, that the engine was running "fine," and that there were no flight control anomalies at the time of the accident. The pilot stated that the prevailing wind was from the east gusting to 18 knots, which resulted in a gusting tailwind during the takeoff.

The density altitude was calculated to be about 3,000 ft. It is likely that the combined effects of the airplane operating at its maximum gross weight, the elevated density altitude, and the gusting tailwind resulted in the airplane becoming airborne at an airspeed that could not be maintained outside of ground effect. The pilot subsequently failed to maintain the proper angle-of-attack as he attempted to climb the airplane out of ground effect, which resulted in an aerodynamic stall.

## Flight Events

Takeoff - Loss of control in flight  
Takeoff - Collision with terr/obj (non-CFIT)

## Probable Cause

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

The pilot's failure to establish proper airspeed and angle-of-attack during takeoff with the airplane at its maximum gross weight in elevated density altitude and gusting tailwind conditions, which resulted in an aerodynamic stall.

## Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Airspeed-Not attained/maintained - C  
Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Angle of attack-Not

attained/maintained - C

Aircraft-Aircraft oper/perf/capability-Aircraft capability-Maximum weight-Not specified

Personnel issues-Task performance-Use of equip/info-Aircraft control-Pilot - C

Environmental issues-Conditions/weather/phenomena-Wind-Gusts-Effect on operation

Environmental issues-Conditions/weather/phenomena-Wind-Tailwind-Effect on operation

Environmental issues-Conditions/weather/phenomena-Temp/humidity/pressure-High density altitude-Effect on operation

## Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	60
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	9850 hours (Total, all aircraft), 9700 hours (Total, this make and model), 8904 hours (Pilot In Command, all aircraft), 60 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	PIPER	<b>Registration:</b>	N6803Z
<b>Model/Series:</b>	PA 25-235	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	Kazs Flying Service Ltd.	<b>Engine Manufacturer:</b>	LYCOMING
<b>Operating Certificate(s) Held:</b>	Agricultural Aircraft (137)	<b>Engine Model/Series:</b>	O-540-B4B5
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	MSN, 887 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Lowest Ceiling:</b>	None	<b>Wind Speed/Gusts, Direction:</b>	10 knots / , 90°
<b>Temperature:</b>	24° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Arlington, WI (PVT)	<b>Destination:</b>	Arlington, WI (PVT)

## Airport Information

<b>Airport:</b>	Kazs Flying Service (PVT)	<b>Runway Surface Type:</b>	Grass/turf
<b>Runway Used:</b>	27	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	2500 ft / 50 ft		

## Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:	43.333333, -89.520833 (est)		

## Administrative Information

Investigator In Charge (IIC):	Timothy Sorensen	Adopted Date:	12/12/2016
Note:	The NTSB did not travel to the scene of this accident.		
Investigation Docket:	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=93562">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=93562</a>		

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