



Aviation Investigation Final Report

Location: KEYTESVILLE, Missouri **Accident Number:** MKC83LA193

Date & Time: August 14, 1983, 20:15 Local Registration: N9703U

Aircraft: GRUMMAN AMERICAN AA- Aircraft Damage: Substantial

Defining Event: 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

ACCORDING TO THE PILOT, AFTER DEPARTURE HE CLIMBED TO 2000 FEET MSL, ADJUSTED THE THROTTLE FOR 2500 RPM AND LEANED THE MIXTURE FOR CRUISE FLIGHT. THE ENGINE SLOWED TO 2000 RPM SO HE SELECTED THE OPPOSITE FUEL TANK, MOVED THE MIXTURE TO FULL RICH AND APPLIED FULL THROTTLE. HE DID NOT APPLY CARBURETOR HEAT. THE RPM DID NOT INCREASE AND THE ACFT CONTINUED TO DESCEND SO HE DECIDED TO LAND. AS HE APPROACHED THE OPEN FIELD HE HAD SELECTED FOR LANDING, THE LANDING GEAR STRUCK A TREE. THE AIRCRAFT DESCENDED LOWER AND THE LEFT WING STRUCK A TREE. THE AIRCRAFT SPUN TO THE GROUND, IMPACTING A CORN FIELD WHILE MOVING REARWARD.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL

Phase of Operation: CRUISE - NORMAL

Findings

1. (C) WEATHER CONDITION - CARBURETOR ICING CONDITIONS

2. (C) CARBURETOR HEAT - NOT USED - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (F) OBJECT - TREE(S)

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings

4. (F) TERRAIN CONDITION - CROP

Page 2 of 5 MKC83LA193

Factual Information

Pilot Information

Certificate:	Private	Age:	34,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	May 25, 1983
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	657 hours (Total, all aircraft), 645 hours (Total, this make and model), 620 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	GRUMMAN AMERICAN	Registration:	N9703U
Model/Series:	AA-5A AA-5A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	AA5A 0103
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	June 3, 1983 100 hour	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:	3 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	180 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	0-320-E-2G
Registered Owner:	DARRELL WATTENBARGER	Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 MKC83LA193

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	COU ,549 ft msl	Distance from Accident Site:	80 Nautical Miles
Observation Time:	19:52 Local	Direction from Accident Site:	144°
Lowest Cloud Condition:	Scattered / 10000 ft AGL	Visibility	6 miles
Lowest Ceiling:	Broken / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	10°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	25°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	COLUMBIA , MO (COU)	Type of Flight Plan Filed:	None
Destination:	BROOKFIELD , MO (BZK)	Type of Clearance:	None
Departure Time:	19:00 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	Grass/turf
Airport Elevation:		Runway Surface Condition:	Dry;Vegetation
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	39.429119,-92.929725(est)

Page 4 of 5 MKC83LA193

Administrative Information

Investigator In Charge (IIC):	Wall, James
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=33471

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 5 of 5 MKC83LA193