



Aviation Investigation Final Report

Location: PALO, Iowa Accident Number: MKC82DA159

Date & Time: August 27, 1982, 09:15 Local Registration: N12412

Aircraft: BELL 47G-2 Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 137: Agricultural

Analysis

THE PILOT REPORTED THAT DURING FLIGHT AT ABOUT 300 FT AGL, THE ENGINE SPUTTERED AND LOST POWER. HE ENTERED AN AUTOROTATION, TURNED INTO THE WIND, AND LANDED IN A BEAN FIELD. AS THE AIRCRAFT DESCENDED INTO THE BEANS, THE SPRAY BOOM BECAME ENTANGLED IN THE VINES WHICH PULLED THE NOSE DOWN. THE IMPACT FLEXED THE TAIL BOOM UP INTO THE PATH OF THE MAIN ROTOR BLADES WHICH SEVERED THE BOOM. THE PILOT REPORTED THAT WATER WAS FOUND IN THE CARBURETOR.

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(TOTAL) - NONMECHANICAL

Phase of Operation: DESCENT

Findings

1. (C) FLUID, FUEL - WATER

2. (C) AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. AUTOROTATION - PERFORMED - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

4. (F) TERRAIN CONDITION - HIGH VEGETATION

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	39,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	Helicopter	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	September 2, 1981
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	980 hours (Total, all aircraft), 315 hours (Total, this make and model), 725 hours (Pilot In Command, all aircraft), 450 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N12412
Model/Series:	47G-2 47G-2	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	1487
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:	79 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	9304 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	O-435-A1F
Registered Owner:	JANET K. BRENTNER	Rated Power:	240 Horsepower
Operator:	JANET K. BRENTNER	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	CID	Distance from Accident Site:	12 Nautical Miles
Observation Time:	09:52 Local	Direction from Accident Site:	157°
Lowest Cloud Condition:	Unknown	Visibility	10 miles
Lowest Ceiling:	Overcast / 1500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	11 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	10°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	62°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	MCCALLSBURG , IA	Type of Flight Plan Filed:	None
Destination:	MARION , IA (C17)	Type of Clearance:	None
Departure Time:	08:30 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	Dry
Runway Used:	0	IFR Approach:	
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Straight-in

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:	42.060214,-91.790405(est)

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Administrative Information

Investigation Docket:

Investigator In Charge (IIC):

Additional Participating
Persons:

Original Publish Date: August 27, 1983

Last Revision Date:
Investigation Class: Class
Note:

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.

https://data.ntsb.gov/Docket?ProjectID=72147

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.

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