



Aviation Investigation Final Report

Location: PLAINSBORO, New Jersey Accident Number: NYC85LA081

Date & Time: June 15, 1985, 14:30 Local **Registration:** N49882

Aircraft: BELL 47G-3 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 137: Agricultural

Analysis

THE HELICPOPTER CRASHED SHORTLY AFTER TAKEOFF WITH 55 GALLONS OF FERTILIZER ON BOARD. THE PLT STATED THAT EACH TIME HE MADE A SWATH RUN OVER THE FIELD THE BLADES OF THE HELICOPTER WERE PICKING UP SOME OF THE LIQUID FERTILIZER. ON TAKEOFF HELICOPTER FELT HEAVY, ACCORDING TO THE PLT. UNABLE TO GET THE RPM BACK AND TOO LATE TO ACTIVATE THE EMERGENCY DUMP, THE HELICOPTER COLLIDED WITH THE GROUND IN THE POTATO FIELD.

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: TAKEOFF

Findings

1. (C) ADEQUATE ROTOR RPM - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Findings

2. LOAD JETTISON - NOT POSSIBLE - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	53,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	April 29, 1985
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	15420 hours (Total, all aircraft), 3362 hours (Total, this make and model), 15357 hours (Pilot In Command, all aircraft), 110 hours (Last 90 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	N49882
Model/Series:	47G-3 47G-3	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	2612
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	May 14, 1985 Annual	Certified Max Gross Wt.:	2600 lbs
Time Since Last Inspection:	53 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	5185 Hrs	Engine Manufacturer:	LYCOMING
ELT:		Engine Model/Series:	VO-435-A1F
Registered Owner:	CORDOBA HELICOPTERS	Rated Power:	280 Horsepower
Operator:		Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Visual (VMC)	Condition of Light:	Day
	Distance from Accident Site:	
	Direction from Accident Site:	
Unknown	Visibility	
Unknown	Visibility (RVR):	
/	Turbulence Type Forecast/Actual:	/
0°	Turbulence Severity Forecast/Actual:	/
	Temperature/Dew Point:	-18°C
No Obscuration; No Precipita	ation	
PLAINSBORO , NJ	Type of Flight Plan Filed:	None
	Type of Clearance:	None
00:00 Local	Type of Airspace:	Class G
	Unknown Unknown / 0° No Obscuration; No Precipitate PLAINSBORO , NJ	Distance from Accident Site: Direction from Accident Site: Unknown Visibility Unknown Visibility (RVR): Turbulence Type Forecast/Actual: Turbulence Severity Forecast/Actual: Temperature/Dew Point: No Obscuration; No Precipitation PLAINSBORO, NJ Type of Flight Plan Filed: Type of Clearance:

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	

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Administrative Information

Investigator In Charge (IIC):	Taylor, Vernon
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=35842

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.

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