



Aviation Investigation Final Report

Location: CHANDLER, Arizona Accident Number: LAX92LA378

Date & Time: September 6, 1992, 09:10 Local Registration: N38099

Aircraft: Texas Helicopter OH-13E/M74 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 137: Agricultural

Analysis

AFTER RECEIVING FUEL AND RELOADING WITH A CHEMICAL HERBICIDE, THE HELICOPTER WAS DEPARTING A LANDING/LOADING PLATFORM MOUNTED ON A TRUCK, TO CONTINUE AGRICULTURAL SPRAY OPERATIONS. AS THE HELICOPTER LEFT THE PLATFORM, THE PILOT WAS UNABLE TO MAINTAIN ALTITUDE AND JETTISON THE CHEMICAL LOAD. THE HELICOPTER SETTLED INTO A COTTON FIELD AND ROLLED ONTO ITS LEFT SIDE. EXAMINATION OF WEIGHT AND BALANCE, AND PERFORMANCE CHARTS REVEALED THAT THE HELICOPTER SHOULD HAVE BEEN ABLE TO MAINTAIN FLIGHT. THE PILOT REPORTED THAT HIS RECOMMENDATION TO PREVENT THIS ACCIDENT WAS TO NOT OVERLOAD THE HELICOPTER.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S MISJUDGING THE PERFORMANCE AND WEIGHT AND BALANCE DATA OF THE HELICOPTER PRIOR TO DEPARTURE. CONTRIBUTING TO THE ACCIDENT WAS A FAILURE OF THE PILOT TO JETTISON THE CHEMICAL LOAD.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: TAKEOFF

Findings

- 1. TERRAIN CONDITION HIGH VEGETATION
- 2. (C) PERFORMANCE DATA MISJUDGED PILOT IN COMMAND
- 3. (C) AIRCRAFT WEIGHT AND BALANCE MISJUDGED PILOT IN COMMAND 4. (F) LOAD JETTISON NOT PERFORMED PILOT IN COMMAND

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Factual Information

Pilot Information

Certificate:	Commercial	Age:	28,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Center
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	April 23, 1992
Occupational Pilot:	Yes Last Flight Review or Equivalent:		
Flight Time:	3680 hours (Total, all aircraft), 480 hours (Total, this make and model), 3507 hours (Pilot In Command, all aircraft), 120 hours (Last 90 days, all aircraft), 65 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Texas Helicopter	Registration:	N38099
Model/Series:	OH-13E/M74 OH-13E/M74	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	77-006
Landing Gear Type:	Skid	Seats:	1
Date/Type of Last Inspection:	August 26, 1992 100 hour	Certified Max Gross Wt.:	2750 lbs
Time Since Last Inspection:	37 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2628 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	VO-435-A1F
Registered Owner:	FLIGHT SERVICES INC.	Rated Power:	260 Horsepower
Operator:	FLIGHT SERVICES INC.	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	YUGG

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)		Condition of Light:	Day
Observation Facility, Elevation:			Distance from Accident Site:	
Observation Time:			Direction from Accident Site:	
Lowest Cloud Condition:	Clear		Visibility	30 miles
Lowest Ceiling:	None		Visibility (RVR):	
Wind Speed/Gusts:	/		Turbulence Type Forecast/Actual:	/
Wind Direction:	0°		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:			Temperature/Dew Point:	28°C
Precipitation and Obscuration:	No Obscurati	on; No Precipita	tion	
Departure Point:	CHANDLER	, AZ (NONE)	Type of Flight Plan Filed:	None
Destination:			Type of Clearance:	None
Departure Time:	09:10 Local		Type of Airspace:	Class G

Airport Information

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

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:	33.319797,-111.869041(est)

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Administrative Information

Investigator In Charge (IIC): Erickson, Scott

Additional Participating PETER YIAKOS; SCOTTSDALE , AZ

Persons:

Original Publish Date: May 26, 1993

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=27756

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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