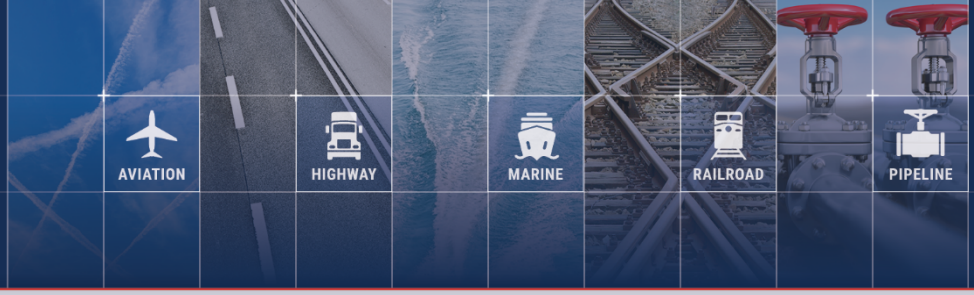

Aviation Investigation Final Report

Location:	LE GRAND, California	**Accident Number:**	LAX86FVA10
Date & Time:	June 30, 1986, 06:10 Local	**Registration:**	N64789
Aircraft:	BELL UH-1B	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	1 Serious
Flight Conducted Under:	Part 137: Agricultural		

Analysis

THE HELICOPTER EXPERIENCED AN ENGINE FAILURE SHORTLY AFTER LIFT-OFF PRIOR TO A SPRAY RUN ON A NEARBY FIELD. THE ENGINE DECELERATED TO ZERO AND THE ACFT COLLIDED WITH THE GROUND. EXAMINATION OF THE ENGINE REVEALED THE TURBINE ROTOR WAS DESTROYED AND EVIDENCE OF OVERSPEED AND TENSION OVERLOAD WAS FOUND.

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
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings
1. (C) TURBINE ASSEMBLY - OVERSPEED
2. (C) TURBINE ASSEMBLY - FAILURE,TOTAL

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - EMERGENCY

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	**Age:**	39,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	**Seat Occupied:**	Right
Other Aircraft Rating(s):	Helicopter	**Restraint Used:**	
Instrument Rating(s):	Airplane; Helicopter	**Second Pilot Present:**	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Helicopter	**Toxicology Performed:**	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	**Last FAA Medical Exam:**	June 3, 1985
Occupational Pilot:	Yes	**Last Flight Review or Equivalent:**	
Flight Time:	9475 hours (Total, all aircraft), 3025 hours (Total, this make and model), 9275 hours (Pilot In Command, all aircraft), 53 hours (Last 90 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	**Registration:**	N64789
Model/Series:	UH-1B UH-1B	**Aircraft Category:**	Helicopter
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Restricted (Special)	**Serial Number:**	62-4598
Landing Gear Type:	Skid	**Seats:**	9
Date/Type of Last Inspection:	February 1, 1986 100 hour	**Certified Max Gross Wt.:**	8500 lbs
Time Since Last Inspection:	80 Hrs	**Engines:**	1 Turbo shaft
Airframe Total Time:	5163 Hrs	**Engine Manufacturer:**	LYCOMING
ELT:	Not installed	**Engine Model/Series:**	T5311A
Registered Owner:	ROGERS HELICOPTERS	**Rated Power:**	900 Horsepower
Operator:		**Operating Certificate(s) Held:**	
Operator Does Business As:		**Operator Designator Code:**	06

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**	15 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:**	16°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		**Type of Flight Plan Filed:**	None
Destination:		**Type of Clearance:**	None
Departure Time:	06:30 Local	**Type of Airspace:**	Class G

Airport Information

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

Wreckage and Impact Information

Crew Injuries:	1 Serious	**Aircraft Damage:**	Substantial
Passenger Injuries:		**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 Serious	**Latitude, Longitude:**	37.07064,-120.269493(est)

Administrative Information

Investigator In Charge (IIC):	Wilkins, J.
Additional Participating Persons:	
Original Publish Date:	February 3, 1988
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=24962