

**BRIEFS OF ACCIDENTS
INVOLVING**

ROTORCRAFT *Helicopter*

**U.S. GENERAL AVIATION
1968**

**NATIONAL TRANSPORTATION SAFETY BOARD
Bureau of Aviation Safety
Washington, D. C. 20591**

FOREWORD

This report contains the Briefs of Accidents involving Rotorcraft occurring in 1968. There were 252 accidents involving Rotorcraft out of a total of 4,968 General Aviation accidents in 1968. The total accident rate is 40.84 and the fatal accident rate is 5.67 per 100,000 hours flown, for Rotorcraft.

Variations in utilization of different makes and models of aircraft may vary the flight regime and alter operational conditions to an extent that reflects in the accident rates. Care should be taken to consider all factors involved in using the rates displayed for the various makes and models in the U. S. General Aviation studies. For example, the Piper Pa-22 is most often used in personal transportation and instructional flying combined, with not less than 20% in instruction. Whereas, the Beechcraft 50 series are used primarily in professional flying, with not more than 20% of total time in other categories of flight.

Collisions between aircraft are treated as one accident. A complete analysis and coding is done on each aircraft involved in collisions. This produces two aircraft accident records, one of each aircraft involved in the collision. Consequently, when compiling information on accidents involving collisions between aircraft, the number of accident records will exceed the number of accidents. The injury and cause/factor tables show the number of accidents. All analytic tables show both records and accidents.

The Briefs of Accidents contain the essential items of information which fulfill the requirements of the majority of persons using these reports. However, for those having a need for more detailed information the original factual reports on each accident are on file in the Washington Office of the National Transportation Safety Board. Upon request these reports will be reproduced commercially at an average cost of 15¢ per page for printed matter and 75¢ per page for photographs, plus postage. (Minimum Charge \$1.00).

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NATIONAL TRANSPORTATION SAFETY BOARD
Administrative Operations Division
Accident Inquiry Section
Washington, D. C. 20591

Rotorcraft
Helicopter

EXPLANATORY NOTES

Type of Accident:

The type of accident relates to the circumstances involved in the accident. Briefly, it indicates what happened.

Phase of Operation:

The phase of operation relates to the particular segment of the flight or operation during which the circumstances of the accident occur. In other words, where in the flight the circumstances took place.

First and Second Type of Accident:

Two separate types may be coded in any one accident. The selection of first and second type is made in relation to the sequence of occurrence.

In those occurrences wherein more than two types or circumstances are involved, the selection of types is made considering the circumstances which may be of the greatest value from the standpoint of safety study. In such cases the two types selected are coded as first and second according to sequence of occurrence.

A secondary type is not normally used when the occurrence is the inevitable result of a prior occurrence resulting in the loss of control. Generally this pertains to collisions with ground or objects.

First and Second Phase of Operation:

The phase of operation is directly related to the type of accident. When more than one type is coded for an accident, each type will have a corresponding phase. In other words, the first phase of operation will be that phase of flight in which the first type or circumstance occurred. In the event that the first and second type both occur in one operational phase, the same phase is coded twice.

Cause and Related Factors:

In determining the probable cause of an accident, all facts, conditions and circumstances are considered. For statistical purposes, where two or more causes exist in an accident, each is recorded and no attempt is made to establish a primary cause. Therefore, in the Cause and Related Factor Table, the figures shown in the columns dealing with Cause will exceed the total number of accidents. The term Factor is used, in general, to reflect those elements of an accident which further explain or supplement the probable cause(s). This provision was incorporated in the coding system to increase its flexibility and to provide a means for collecting essential items of information which could not be readily categorized elsewhere in the system.

LIST OF ABBREVIATIONS USED IN BRIEFS

ABBREVIATIONS

MEANING

AERIAL ADVERTISE	AERIAL ADVERTISING
AERIAL APPLIC	AERIAL APPLICATION
AIR SHOW/RACING	AIR SHOW/AIR RACING
AIR TAXI - CARGO	AIR TAXI- CARGO OPERATIONS
AIR TAXI - PASSG	AIR TAXI - PASSENGER OPERATIONS
ASSOC FIRE CTL	ASSOCIATED FIRE CONTROL ACTIVITIES
CARGO NS-D	NONSCHEDULED/CHARTER REVENUE CARGO - DOMESTIC
CARGO NS-I	NONSCHEDULED/CHARTER REVENUE CARGO - INTERNATIONAL
CARGO S-D	SCHEDULED DOMESTIC CARGO SERVICE
CARGO S-I	SCHEDULED INTERNATIONAL CARGO SERVICE
CONSTRUCTION	CONSTRUCTION WORK
CORP/EXEC	CORPORATE/EXECUTIVE
CR-	CREW
CTR CARGO - D	CONTRACT CHARTER - CARGO - DOMESTIC
CTR CARGO - I	CONTRACT CHARTER - CARGO - INTERNATIONAL
CTR PASSG - D	CONTRACT CHARTER - PASSENGER - DOMESTIC
CTR PASSG - I	CONTRACT CHARTER - PASSENGER - INTERNATIONAL
MAPPING/PHOTO	AERIAL MAPPING PHOTOGRAPHY
MIL/CTR CARGO	MILITARY CONTRACT - CARGO
MIL/CTR CARGO D	MILITARY CONTRACT - CARGO - DOMESTIC
MIL/CTR CARGO I	MILITARY CONTRACT - CARGO - INTERNATIONAL
MIL/CTR PASSG	MILITARY CONTRACT - PASSENGER
MIL/CTR PASSG D	MILITARY CONTRACT - PASSENGER - DOMESTIC
MIL/CTR PASSG I	MILITARY CONTRACT - PASSENGER - INTERNATIONAL
NS CTR CARGO	NONSCHEDULED/CHARTER REVENUE CARGO - INTRA-STATE CARRIER
NS CTR PASSG	NONSCHEDULED/CHARTER REVENUE PASSENGER-INTRA-STATE CARRIER
OT-	OTHER AIRCRAFT AND GROUND
OTHER PUBLIC	ALL OTHER PUBLIC FLYING
PARAJUMP	PARACHUTE JUMP
PASSG NS-D	NONSCHEDULED/CHARTER REVENUE PASSENGER - DOMESTIC
PASSG NS-I	NONSCHEDULED/CHARTER REVENUE PASSENGER - INTERNATIONAL
PASSG S-D	SCHEDULED DOMESTIC PASSENGER SERVICE
PASSG S-I	SCHEDULED INTERNATIONAL PASSENGER SERVICE
PX-	PASSENGER
SCHED CARGO SRV	SCHEDULED CARGO SERVICE
SCHED PASSG SRV	SCHEDULED PASSENGER SERVICE
TIME	LOCAL STANDARD TIME OF ACCIDENT
WBP	WEATHER BUREAU PERSONNEL
FSP	FLIGHT SERVICE PERSONNEL

INJURIES, ACCIDENTS
ROTORCRAFT
U.S. GENERAL AVIATION
1968

	INJURIES					TOTAL
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN	
PILOT	32	21	37	162		252
COPILOT				5		5
DUAL STUDENT		1	3	12		16
CHECK PILOT			1	2		3
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT						
EXTRA CREW	1	2	1	2		6
PASSENGERS	13	13	30	125		181
 TOTAL	 46	 37	 72	 308	 ABOARD	 463
 * OTHER AIRCRAFT				1		1
OTHER GROUND						
 GRAND TOTAL	 46	 37	 72	 309		 464

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INVOLVES 252 TOTAL ACCIDENTS.
INVOLVES 35 FATAL ACCIDENTS

* INJURIES CARRIED OPPOSITE OTHER-AIRCRAFT ARE INJURIES OCCURRING IN AIRCRAFT THAT ARE NOT PART OF THIS SUBJECT TABULATION, BUT WERE PART OF THE TOTAL INJURIES INVOLVED IN COLLISIONS BETWEEN AIRCRAFT.

ANALYTIC TABLE

KIND OF FLYING BY INJURY INDEX

<u>KIND OF FLYING</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
INSTRUCTIONAL							
DUAL	2	2	12		16	16	6.35
Solo		1	2		3	3	1.19
CHECK		1	2		3	3	1.19
TRAINING	3	2	1	9	15	15	5.95
NONCOMMERCIAL							
PLEASURE	8	2	7	12	29	29	11.51
PRACTICE	1	2	7		10	10	3.97
BUSINESS	2	2	7		11	11	4.37
CORPORATE/EXECUTIVE			1	5	6	6	2.38
AERIAL SURVEY				1	1	1	.40
COMPANY FLIGHT							
OTHER							
COMMERCIAL							
AERIAL APPLICATION	2	4	5	14	25	25	9.92
ASSOCIATED CROP CONTROL ACTIV	1	1	1	19	22	22	8.73
FIRE CONTROL			1	2	3	3	1.19
ASSOCIATED FIRE CONTROL ACTIV		1	2	2	5	5	1.98
AERIAL MAPPING/PHOTOGRAPHY		2	1	2	5	5	1.98
AERIAL ADVERTISING				1	1	1	.40
POWER AND PIPELINE PATROL		3	1	3	7	7	2.78
FISH SPOTTING							
AIR TAXI-PASSENGER OPERATIONS	7	4	2	8	21	21	8.33
AIR TAXI-CARGO OPERATIONS							
CONSTRUCTION WORK			1	5	6	6	2.38
SCHEDULED PASSENGER SERVICE							
SCHEDULED CARGO SERVICE							
NONSCHEDULED/CHARTER REVENUE							
NONSCHEDULED/CHARTER REVENUE							
MILITARY CONTRACT-PASSENGER							
MILITARY CONTRACT-CARGO							
CONTRACT/CHARTER-CARGO-DOMEST				2	2	2	.79
CONTRACT/CHARTER-PASSENGER-DO	2	1	5	12	20	20	7.94
CONTRACT/CHARTER-CARGO-INTERN							
CONTRACT/CHARTER-PASSENGER-IN							
OTHER		1	2	6	9	9	3.57
UNKNOWN/NOT REPORTED							

ANALYTIC TABLE

KIND OF FLYING BY INJURY INDEX

<u>KIND OF FLYING</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
MISCELLANEOUS							
EXPERIMENTATION							
TEST	2	1	1	6	10	10	3.97
DEMONSTRATION	1		1		2	2	.79
FERRY	1	1	1	4	7	7	2.78
SEARCH AND RESCUE				1	1	1	.40
AIR SHOW/AIR RACING							
PARACHUTE JUMP							
PARACHUTE JUMP IN CONNECTION							
TOWING GLIDERS							
SEEDING CLOUDS							
HUNTING							
POLICE PATROL	2	1	2	3	8	8	3.17
ALL OTHER PUBLIC FLYING							
OTHER			1	2	3	3	1.19
UNKNOWN/NOT REPORTED							
OTHER	1				1	1	.40
RECORDS	35	26	42	149	252		
ACCIDENTS	35	26	42	149		252	
PERCENT	13.9	10.3	16.7	59.1			

ANALYTIC TABLE
FIRST TYPE OF ACCIDENT BY AIRCRAFT DAMAGE
AIRCRAFT DAMAGE

<u>FIRST TYPE OF ACCIDENT</u>	<u>AIRCRAFT DAMAGE</u>				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
GROUND-WATER LOOP-SWERVE		3			3	3	1.19
DROGGED WINGTIP, POD, OR FLOA							
WHEELS-UP LANDING							
WHEELS-DOWN LANDING IN WATER							
GEAR COLLAPSED		1			1	1	.40
GEAR RETRACTED							
HARD LANDING	4	23			27	27	10.71
NOSE OVER/DOWN							
ROLL OVER	4	13			17	17	6.75
OVERSHOOT							
UNDERSHOOT	1	2			3	3	1.19
COLLISION BETWEEN AIRCRAFT							
BOTH IN FLIGHT							
ONE AIRBORNE							
BOTH ON GROUND		1			1	1	.40
COLLISION WITH GROUND/WATER							
CONTROLLED	2	8			10	10	3.97
UNCONTROLLED	11	8			19	19	7.54
COLLIDED WITH							
WIRES/POLES	12	10			22	22	8.73
TREES	2	1			3	3	1.19
RESIDENCE/S							
BUILDING/S		1			1	1	.40
FENCE, FENCEPOSTS		2			2	2	.79
ELECTRONIC TOWERS							
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD							
ANIMALS							
CROP		1			1	1	.40
FLAGMAN LOADER							
DITCHES							
SNOWBANK							
PARKED AIRCRAFT		1			1	1	.40
AUTOMOBILE		2			2	2	.79
DIRT BANK		1			1	1	.40
OBJECT	3	3			6	6	2.38
BIRD STRIKE							

ANALYTIC TABLE

FIRST TYPE OF ACCIDENT BY AIRCRAFT DAMAGE

FIRST TYPE OF ACCIDENT	AIRCRAFT DAMAGE				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
STALL	1				1	1	.40
SPIN							
SPIRAL		1			1	1	.40
MUSH	1	4			5	5	1.98
FIRE OR EXPLOSION							
IN FLIGHT							
ON GROUND							
AIRFRAME FAILURE							
IN FLIGHT		2			2	2	.79
ON GROUND	1				1	1	.40
ENGINE TEARAWAY							
ENGINE FAILURE OR MALFUNCTION	10	57			67	67	26.59
PROPELLER/ROTOR FAILURE							
PROPELLER							
TAIL ROTOR	3	12			15	15	5.95
MAIN ROTOR	6	4			10	10	3.97
PROPELLER/ROTOR ACCIDENT TO P		1	1	1	3	3	1.19
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE							
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEOUS/OTHER	8	17			25	25	9.92
UNDETERMINED	2				2	2	.79
OTHER							
RECORDS	71	179	1	1	252		
ACCIDENTS	71	179	1	1		252	
PERCENT	28.2	71.0	.4	.4			

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY INJURY INDEX

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
STATIC							
STARTING ENGINE/S							
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS	1	2	2		5	5	1.98
PARKED-ENGINES NOT OPERATING							
OTHER							
TAXI							
TO TAKEOFF							
FROM LANDING							
OTHER	1				1	1	.40
GROUND TAXI TO TAKEOFF							
GROUND TAXI FROM LANDING				1	1	1	.40
GROUND TAXI, OTHER				1	1	1	.40
AERIAL TAXI TO TAKEOFF				1	1	1	.40
AERIAL TAXI TO/FROM LANDING			1	1	2	2	.79
AERIAL TAXI, OTHER		1	1	2	4	4	1.59
TAKEOFF							
RUN							
INITIAL CLIMB	3	4	5	21	33	33	13.10
VERTICAL	1		2	9	12	12	4.76
RUNNING							
ABORTED							
ABORTED							
ABORTED				1	1	1	.40
OTHER		1			1	1	.40
INFLIGHT							
CLIMB TO CRUISE		1	1	2	4	4	1.59
NORMAL CRUISE	6	4	10	28	48	48	19.05
DESCENDING				1	1	1	.40
HOLDING							
HOVERING	2		5	9	16	16	6.35
POWER-ON DESCENT		1			1	1	.40
AUTOROTATIVE DESCENT			1	3	4	4	1.59
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	7		4	6	17	17	6.75

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY INJURY INDEX

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
EMERGENCY DESCENT							
LOW PASS	4	1		1	6	6	2.38
OTHER			1	1	2	2	.79
EN ROUTE TO TREAT CROP	1			3	4	4	1.59
EN ROUTE TO RELOADING AREA				2	2	2	.79
SURVEY FIELD/AREA				2	2	2	.79
STARTING SWATH RUN		1	1	2	4	4	1.59
SWATH RUN		1	3	4	8	8	3.17
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN		1			1	1	.40
PROCEDURE TURNAROUND		1	1	8	10	10	3.97
CLEANUP SWATH	1				1	1	.40
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP				1	1	1	.40
LANDING							
TRAFFIC PATTERN-CIRCLING				3	3	3	1.19
FINAL APPROACH	1	1	3	5	10	10	3.97
INITIAL APPROACH							
FINAL APPROACH							
LEVEL OFF/TOUCHDOWN		2	1	3	6	6	2.38
ROLL		1		2	3	3	1.19
ROLL-ON/RUN-ON				1	1	1	.40
POWER-ON LANDING	2	2	2	11	17	17	6.75
POWER-OFF AUTOROTATIVE LANDIN	1			12	13	13	5.16
GO-AROUND							
MISSED APPROACH							
OTHER		1			1	1	.40
UNKNOWN/NOT REPORTED	4				4	4	1.59
RECORDS	35	26	42	149	252		
ACCIDENTS	35	26	42	149		252	
PERCENT	13.9	10.3	16.7	59.1			

CAUSE/FACTOR TABLE

ROTORCRAFT
U. S. GENERAL AVIATION
1968

INVOLVES 252 TOTAL ACCIDENTS
INVOLVES 35 FATAL ACCIDENTS

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BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	19 54.29	4 11.43	21 60.00	160 73.73	6 2.76	162 74.65	179 71.03	10 3.97	183 72.62
PERSONNEL	1 2.86	.00	1 2.86	29 13.36	2 .92	31 14.29	30 11.90	2 .79	32 12.70
AIRFRAME	.00	.00	.00	3 1.38	.00	3 1.38	3 1.19	.00	3 1.19
LANDING GEAR	.00	.00	.00	.00	.00	.00	.00	.00	.00
POWERPLANT	1 2.86	.00	1 2.86	44 20.28	.00	44 20.28	45 17.86	.00	45 17.86
SYSTEMS	.00	.00	.00	2 .92	.00	2 .92	2 .79	.00	2 .79
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	.00	.00	1 .46	1 .46	.00	1 .40	1 .40
ROTORCRAFT	6 17.14	.00	6 17.14	31 14.29	2 .92	33 15.21	37 14.68	2 .79	39 15.48
AIRPORTS/AIRWAYS/FACILITIES	.00	.00	.00	2 .92	.00	2 .92	2 .79	.00	2 .79
WEATHER	1 2.86	1 2.86	2 5.71	18 8.29	11 5.07	28 12.90	19 7.54	12 4.76	30 11.90
TERRAIN	3 8.57	2 5.71	5 14.29	27 12.44	10 4.61	37 17.05	30 11.90	12 4.76	42 16.67
MISCELLANEOUS	.00	.00	.00	9 4.15	.00	9 4.15	9 3.57	.00	9 3.57
UNDETERMINED	10 28.57	.00	10 28.57	1 .46	.00	1 .46	11 4.37	.00	11 4.37

THE FIGURES OPPOSITE EACH CAUSAL CATEGORY REPRESENT THE NUMBER AND PERCENT OF ACCIDENTS IN WHICH THAT PARTICULAR CAUSAL CATEGORY WAS ASSIGNED

* IF AN ACCIDENT INCLUDES BOTH A CAUSE AND RELATED FACTOR IN THE SAME CAUSAL CATEGORY, THE ACCIDENT IS REPRESENTED ONCE UNDER THE TOTAL FOR THAT CATEGORY

CAUSE/FACTOR TABLE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1968

INVOLVES 252 TOTAL ACCIDENTS
 INVOLVES 35 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT				2	1	3	2	1	3
ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL	2	2	4	5	1	6	7	3	10
CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS				2		2	2		2
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT				1		1	1		1
FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS	3		3	16		16	19		19
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	1		1				1		1
MISJUDGED, SPEED, ALTITUDE OR CLEARANCE				1		1	1		1
FAILED TO MAINTAIN ADEQUATE ROTOR RPM	2		2	21		21	23		23
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT					1	1		1	1
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC	1		1				1		1
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS				8		8	8		8
IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS				1		1	1		1
IMPROPER OPERATION OF FLIGHT CONTROLS	6		6	83		83	89		89
IMPROPER IN-FLIGHT DECISIONS OR PLANNING	1		1	6		6	7		7
IMPROPER COMPENSATION FOR WIND CONDITIONS	1		1	2		2	3		3
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING	1		1	26		26	27		27
INADEQUATE SUPERVISION OF FLIGHT	1		1	7		7	8		8
LACK OF FAMILIARITY WITH AIRCRAFT	1		1	1	1	2	2	1	3
EXERCISED POOR JUDGMENT	2		2	2		2	4		4
OPERATED CARELESSLY	1		1				1		1
SELECTED UNSUITABLE TERRAIN				2		2	2		2
CONTROL INTERFERENCE		2	2		1	1		1	1
SPONTANEOUS-IMPROPER ACTION				1		1	1		1
MISJUDGED SPEED AND ALTITUDE				1		1	1		1
MISJUDGED SPEED				1	1	2	1	1	2
MISJUDGED ALTITUDE AND CLEARANCE				2		2	2		2
MISJUDGED ALTITUDE				2		2	2		2
MISJUDGED CLEARANCE	1		1	12		12	13		13
IMPROPER RECOVERY FROM BOUNCED LANDING				1		1	1		1
SPATIAL DISORIENTATION	1		1	1		1	2		2
LEFT AIRCRAFT UNATTENDED ENGINE RUNNING	1		1	1		1	2		2
FAILED TO MAINTAIN DIRECTIONAL CONTROL				1		1	1		1
FAILED TO ABORT TAKEOFF				1		1	1		1
DIRECT ENTRIES	1		1	2		2	3		3
SUBTOTAL	27	4	31	212	6	218	239	10	249
DUAL STUDENT									
FAILED TO MAINTAIN ADEQUATE ROTOR RPM				2		2	2		2
IMPROPER OPERATION OF FLIGHT CONTROLS	1		1	7		7	8		8
IMPROPER LEVEL OFF				1		1	1		1
SPONTANEOUS-IMPROPER ACTION				1		1	1		1
SUBTOTAL	1		1	11		11	12		12
CHECK PILOT									
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC				1		1	1		1
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS				1		1	1		1
IMPROPER OPERATION OF FLIGHT CONTROLS				1		1	1		1
INADEQUATE SUPERVISION OF FLIGHT				1		1	1		1
SUBTOTAL				4		4	4		4
** PERSONNEL **									
FLIGHT INSTRUCTOR									
INADEQUATE TRAINING OF STUDENT				4	1	5	4	1	5
MAINTENANCE, SERVICING, INSPECTION									
IMPROPER MAINTENANCE(MAINTENANCE PERSONNEL)				5		5	5		5
IMPROPER MAINTENANCE(OWNER PERSONNEL)				2		2	2		2

CAUSE/FACTOR TABLE

PERSONNEL (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
INADEQUATE MAINTENANCE AND INSPECTION	1		1	10	1	11	11	1	12
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN									
SUBSTANDARD QUALITY CONTROL				2		2			2
OTHER				1		1	1		1
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT				1		1	1		1
GROUND SIGNALMAN				1		1	1		1
PASSENGER				2		2	2		2
OTHER				1		1	1		1
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	1		1	29	2	31	30	2	32
** AIRFRAME **									
WINGS									
FUSELAGE									
FAIRINGS				1		1	1		1
LANDING GEAR									
FLIGHT CONTROL SURFACES									
HORIZONTAL STABILIZER, ATTACHMENTS				2		2	2		2
SUBTOTAL				3		3	3		3
** POWERPLANT **									
ENGINE STRUCTURE									
MASTER AND CONNECTING RODS				5		5	5		5
PISTON, PISTON RINGS				6		6	6		6
VALVE ASSEMBLIES				2		2	2		2
OTHER				2		2	2		2
IGNITION SYSTEM									
MAGNETOES				2		2	2		2
SPARK PLUG				3		3	3		3
FUEL SYSTEM									
LINE AND FITTINGS				1		1	1		1
CARBURETOR				3		3	3		3
PUMPS				1		1	1		1
FUEL INJECTION SYSTEM				1		1	1		1
LUBRICATING SYSTEM									
FILTERS, SCREENS				1		1	1		1
MAGNETIC PLUGS				1		1	1		1
SEALS AND GASKETS				1		1	1		1
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
EXHAUST SYSTEM									
ENGINE ACCESSORIES									
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS	1		1	13		13	14		14
DIRECT ENTRIES				2		2	2		2
REDUCTION GEAR ASSEMBLY									
COMPRESSOR ASSEMBLY									
BLADE, COMPRESSOR ROTOR				1		1	1		1
BEARING, ROTOR SHAFT				1		1	1		1
OTHER				1		1	1		1
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
VANES, GUIDE				1		1	1		1
BEARING, SHAFT				1		1	1		1
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
PUMP, SCAVENGE				1		1	1		1
FUEL SYSTEM									

CAUSE/FACTOR TABLE

POWERPLANT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
FUEL CONTROL				1		1	1		1
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL	1		1	51		51	52		52
** SYSTEMS **									
ELECTRICAL SYSTEM									
HYDRAULIC SYSTEM									
FLIGHT CONTROL SYSTEMS									
FLIGHT CONTROL BOOST SYSTEM (HYDRAULIC)				1		1	1		1
ANTI-ICING, DE-ICING SYSTEMS									
CARBURETOR DE-ICING SYSTEM				1		1	1		1
AIR CONDITION, HEATING AND PRESSURIZATION									
AUTO PILOT									
FIRE WARNING SYSTEM									
FIRE EXTINGUISHER SYSTEM									
OXYGEN SYSTEM									
OTHER SYSTEMS									
SUBTOTAL				2		2	2		2
** INSTRUMENTS/EQUIPMENT AND ACCESSORIES **									
FLIGHT AND NAVIGATION INSTRUMENTS									
COMMUNICATIONS AND NAVIGATION EQUIPMENT									
MISCELLANEOUS EQUIPMENT									
OTHER					1	1		1	1
SUBTOTAL					1	1		1	1
** ROTORCRAFT **									
ROTOR ASSEMBLIES									
MAIN ROTOR BLADES	2		2	2	1	3	4	1	5
TAIL ROTOR BLADES	1		1	9		9	10		10
MAIN ROTOR HEAD ASSEMBLIES	1		1	1		1	2		2
DROOP STOPS	1		1				1		1
UNIVERSAL JOINTS, COUPLINGS				1		1	1		1
BEARINGS	1		1	4		4	5		5
TRANSMISSION ROTOR DRIVE SYSTEM									
ENGINE DRIVE SHAFT				1		1	1		1
MAIN ROTOR DRIVE SHAFT	1		1	1		1	2		2
FREE WHEEL UNIT				1		1	1		1
MAIN ROTOR GEAR BOX				1		1	1		1
TAIL ROTOR DRIVE SHAFT ASSEMBLY				3		3	3		3
TAIL ROTOR GEAR BOX				1		1	1		1
CLUTCH ASSEMBLY				2		2	2		2
FLIGHT CONTROL SYSTEMS									
CYCLIC PITCH CONTROL SYSTEM				1		1	1		1
COLLECTIVE PITCH CONTROL SYSTEM					1	1		1	1
MISCELLANEOUS UNITS AND ASSEMBLIES									
TAIL BOOMS/PYLONS/CONES				1		1	1		1
DIRECT ENTRIES	1		1	6		6	7		7
SUBTOTAL	8		8	35	2	37	43	2	45
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									

CAUSE/FACTOR TABLE

AIRPORTS/AIRWAYS/FACILITIES (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
AIRPORT CONDITIONS									
OTHER				2		2	2		2
AIRWAYS FACILITIES									
SUBTOTAL				2		2	2		2
** WEATHER **									
RAIN					1	1		1	1
ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC				3		3	3		3
CONDITIONS CONDUCTIVE TO CARB/INDUCTION SYSTEM ICING				2	1	3	2	1	3
UNFAVORABLE WIND CONDITIONS		1	1	9	4	13	9	5	14
SUDDEN WINDSHIFT				1		1	1		1
DOWNDRAFTS, UPDRAFTS				5	1	6	5	1	6
LOCAL WHIRLWIND	1		1				1		1
HIGH TEMPERATURE				1		1	1		1
HIGH DENSITY ALTITUDE				3	5	8	3	5	8
SUBTOTAL	1	1	2	24	12	36	25	13	38
** TERRAIN **									
WET, SOFT GROUND				5	5	10	5	5	10
SNOW-COVERED	1		1	4	1	5	5	1	6
HIGH VEGETATION				1		1	1		1
ROUGH/UNEVEN	1		1	6	2	8	7	2	9
HIGH OBSTRUCTIONS	1	1	2	7	2	9	8	3	11
OTHER		1	1	4		4	4	1	5
SUBTOTAL	3	2	5	27	10	37	30	12	42
** MISCELLANEOUS **									
EVASIVE MANEUVER TO AVOID COLLISION				2		2	2		2
FOREIGN OBJECT DAMAGE				2		2	2		2
FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS				5		5	5		5
UNDETERMINED	10		10	1		1	11		11
SUBTOTAL	10		10	10		10	20		20
GRAND TOTAL	52	7	59	410	33	443	462	40	502
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP-IMPROPER OPER. OF/FAILED TO USE				2		2	2		2
CHECKLIST-FAILED TO USE					1	1		1	1
DISREGARD OF GOOD OPERATING PRACTICE				1		1	1		1
IMPROPER EMERGENCY PROCEDURES					1	1		1	1
UNWARRANTED LOW FLYING	1		1				1		1
INATTENTIVE TO FUEL SUPPLY				2		2	2		2
POORLY PLANNED APPROACH	1		1				1		1
MISCALCULATED FUEL CONSUMPTION				1		1	1		1
JETTISONED LOAD		1	1		2	2		3	3
IMPROPERLY SECURED				1		1	1		1
ENGINE LOADED UP				1		1	1		1
FATIGUE FRACTURE	1		1	9		9	10		10
RPM-UNCONTROLLABLE-OVERSPEED				1		1	1		1
WINDSHIELD, DIRTY, FOGGY, ETC-RESTRICTED VISION	1		1		1	1	1	1	2
WRONG PART				1		1	1		1
IMPROPER ALIGNMENT/ADJUSTMENT				1		1	1		1
SEPARATION IN FLIGHT		4	4		8	8		12	12
LATERAL IMBALANCE				3		3	3		3
CORRODED/CORROSION	1		1	1		1	2		2
CARGO SHIFTED				1		1	1		1
PILOT FATIGUE					2	2		2	2
FUEL EXHAUSTION				10		10	10		10
ALCOHOLIC IMPAIRMENT OF EFFICIENCY AND JUDGMENT		2	2					2	2
ICE-CARBURETOR				3		3	3		3
AIRFRAME ICE					1	1		1	1
ICE-WINDSHIELD				1	1	2	1	1	2

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR CG	1		1	4	1	5	5	1	6
WHITEOUT				1	1	2	1	1	2
SUNGLARE					1	1		1	1
LACK OF LUBRICATION-SPECIFIC PART, NOT SYSTEM	1		1	2		2	3		3
OIL EXHAUSTION-ENGINE LUBRICATION SYSTEM				2		2	2		2
SIMULATED CONDITIONS				18		18	18		18
WATER IN FUEL				1		1	1		1
AIRCRAFT CAME TO REST IN WATER		4	4		6	6		10	10
MISSING				2		2	2		2
OVERLOAD FAILURE	2	1	3	4	3	7	6	4	10
MATERIAL FAILURE	4		4	20		20	24		24
FUEL STARVATION				4		4	4		4
OIL STARVATION				2		2	2		2
UNAPPROVED MODIFICATION	1		1				1		1
ACTION, LACK OF				1		1	1		1
LEAK/LEAKAGE				1		1	1		1
DOWNWIND					5	5		5	5
CARBON DEPOSITS					1	1		1	1
LOOSE, PART/FITTING				1		1	1		1
GROUND RESONANCE				2		2	2		2
BINDING				1		1	1		1
BURNED					1	1		1	1
DISCONNECTED				2		2	2		2
GROUNDING				1		1	1		1
IMPROPERLY INSTALLED	1		1	5		5	6		6
OBSTRUCTED				2		2	2		2
OUT OF BALANCE					1	1		1	1
OVERHEATED				2		2	2		2
SCORED				2		2	2		2
SHEARED				1		1	1		1
STUCK				1		1	1		1
EXCESSIVE TEMPERATURE				2		2	2		2
VIBRATION, EXCESSIVE				4	1	5	4	1	5

DIRECT ENTRY CAUSES

PWR PLT-DEFECTIVE FUEL PUMP DIAPHRAGM.
 PILOT-DELAYED ATTEMPT TO LIFTOFF TO REGAIN CONTROL
 ROTORCFT-ACFT IN SETTLING WITH POWER CONDITION.
 ROTORCFT-SUDDEN DISSYMMETRY OF LIFT.
 ROTORCFT-ENTERED SETTLING WITH POWER CONDITION.
 ROTORCFT-TAIL ROTOR GRIP RETAINING BOLT.
 PILOT-HOVERED OVER UNFAMILIAR AREA AT NIGHT.
 ROTORCFT-REAR FLOAT CROSS TUBE FAILED IN FATIGUE.
 PWR PLT-LOOSE ROD CAP BOLTS ON NO 4 ROD FAILED.
 ROTORCFT-ROTOR RPM LOST, CAUSE UNDETERMINED.
 ROTORCFT-M/R NOT BALANCED CORDWISE DURING ASSEMBLY
 PILOT-FAILED TO INSTR PX IN PROPER APPCH TO ACFT.

DIRECT ENTRY CAUSES ARE CARRIED UNDER THEIR APPROPRIATE
 CAUSAL CATEGORIES AND ARE INCLUDED IN THE TOTALS

NATIONAL TRANSPORTATION SAFETY BOARD

DEPARTMENT OF TRANSPORTATION

WASHINGTON, D. C. 20591

BRIEFS OF ACCIDENTS

INVOLVING ROTORCRAFT

U.S. GENERAL AVIATION

1968

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0062	1/17/68 TIME - 0830	CULVER CITY, CALIF	BELL 47G-2 N412SF DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL SOLO	COMMERCIAL, AGE 40, 4129 TOTAL HOURS, 16 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - HUGHES TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - SPONTANEOUS-IMPROPER ACTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- EXPRNCD FIXD WNG ACFT PLT PRACTCNG AUTO-ROT LNDGS FOR HELIC RTG.MVD CYCLC CTL AFT DRNG LVL OFF.						
3-0076	1/20/68 TIME - 1620	EL MIRAGE, CALIF	BENSEN WEAVER NONE DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	NO CERTIFICATE, AGE 36, UNK/NR TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - EL MIRAGE TYPE OF ACCIDENT STALL: SPIRAL PROBABLE CAUSE PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL PILOT IN COMMAND - LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND - FAILED TO OBTAIN/MAINTAIN FLYING SPEED REMARKS- NEITHER ACFT OR PLT CERTIFIED FOR FLIGHT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0107	1/26/68 TIME - 1145	SUNDANCE, WYO	HUGHES 2698 N9397F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 42, 1705 TOTAL HOURS, 575 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
HARD LANDING			LANDING: LEVEL OFF/TOUCHDOWN			
ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
PILOT IN COMMAND - CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS						
WEATHER - ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC.						
TERRAIN - SNOW-COVERED						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - ICE-WINDSHIELD						
MISCELLANEOUS ACTS, CONDITIONS - AIRFRAME ICE						
MISCELLANEOUS ACTS, CONDITIONS - WHITEOUT						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
ADVERSE/UNFAVORABLE WEATHER						
SKY CONDITION			CEILING AT ACCIDENT SITE			
OVERCAST			500			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
2 MILES OR LESS			SLEET, FREEZING DRIZZLE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
BLOWING SNOW			31			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
315			5			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- 3 INS LOOSE SNO CN EMERG LNDG AREA, ROTOR DWNWSH CAUSED WHITEOUT, PLT MISJUDGED LVL OFF.						
3-0124	1/30/68 TIME - 1515	C. CHRISTI, TEX	BELL 47G-4A N7925S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, AGE 30, 2500 TOTAL HOURS, 686 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - C. CHRISTI, INTL			PHASE OF OPERATION			
TYPE OF ACCIDENT			TAKEOFF: VERTICAL			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			LANDING: LEVEL OFF/TOUCHDOWN			
HARD LANDING						
PROBABLE CAUSE						
PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT						
EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP. DIRECTIONAL CONTROL PROBLEM						
REMARKS- TEST FLT AFTR TAIL ROTOR INSP TO COMPLY WTH AD-68-2-3. BLADE RETAINING NUT THREADS STRIPPED.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0178	2/4/68 TIME - 1045	VAN NUYS, CALIF	HUGHES 269B N9372F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 23, 1236 TOTAL HOURS, 547 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - VAN NUYS		PHASE OF OPERATION		
		TYPE OF ACCIDENT HARD LANDING		LANDING: POWER-OFF AUTOROTATIVE LANDING		
		PROBABLE CAUSE DUAL STUDENT - IMPROPER LEVEL OFF PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT				
		REMARKS- STUDENT TRAINING FOR HELICOPTER INSTRUCTOR RATING. PRACTICE AUTO-ROTATIVE LNDG.				
3-0206	2/3/68 TIME - 1700	PLAINVIEW, TEX	HUGHES 269A N8818F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	COMMERCIAL, AGE 53, 2465 TOTAL HOURS, 60 IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: UNCONTROLLED		PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT		
		PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.				
		FACTOR MISCELLANEOUS ACTS, CONDITIONS - DOWNWIND				
		REMARKS- ATTEMPTED DOWNWIND HOVERING TURN TO RT. FAILED TC LAND WHEN RPM DROPPED OR TO MAINTAIN LEVEL ALTITUDE				
3-0208	2/4/68 TIME - 1030	COMPTON, CALIF	HUGHES 269A N8879F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 26, 67 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - COMPTON		PHASE OF OPERATION		
		TYPE OF ACCIDENT ROLL OVER		IN FLIGHT: HOVERING		
		PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS				
		FACTOR TERRAIN - WET, SOFT GROUND				
		REMARKS- ATTEMPTED 5 FT ALT HOVERING FLT SIDEWARD, RT SKID CONTACTED GROUND.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0221	2/9/68 TIME - 1530	HARRISON, OHIO	BELL 47J N2895B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS FERRY	COMMERCIAL, FL. INSTR., AGE 54, 4510 TOTAL HOURS, 6 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - HARRISON TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT SYSTEMS - ANTI-ICING, DE-ICING SYSTEMS: CARBURETOR DE-ICING SYSTEM MISCELLANEOUS ACTS, CONDITIONS - BINDING WEATHER - CONDITIONS CONDUCTIVE TO CARB./INDUCTION SYSTEM ICING MISCELLANEOUS ACTS, CONDITIONS - ICE-CARBURETOR PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. FACTOR PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE WEATHER BRIEFING - BRIEFED BY WEATHER BUREAU PERSONNEL, BY PHONE WEATHER FORECAST - UNKNOWN/NOT REPORTED EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIPORT. SKY CONDITION UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 300 TYPE OF WEATHER CONDITIONS VFR REMARKS- POWER LOST ON LIFT OFF, PLT DID NOT LAND, CONTINUED FLIGHT, LANDED W/PARTIAL POWER. CARB HEAT INOPERATIVE						
PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN CEILING AT ACCIDENT SITE 1700 PRECIPITATION AT ACCIDENT SITE SNOW TEMPERATURE-F 31 WIND VELOCITY-KNOTS 17 TYPE OF FLIGHT PLAN NONE						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0230	2/17/68 TIME - 1200	SAN ANTONIO, TEX	HUGHES 269A N8783F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 45, 15750 TOTAL HOURS, 82 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS MISCELLANEOUS ACTS, CONDITIONS - ICE-CARBURETOR MISCELLANEOUS ACTS, CONDITIONS - ANTI-ICING/DEICING EQUIPMENT-IMPROPER OPERATION OF/FAILED TO USE PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR WEATHER - CONDITIONS CONDUCTIVE TO CARB./INDUCTION SYSTEM ICING COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SKY CONDITION OBSCURATION VISIBILITY AT ACCIDENT SITE 2 MILES OR LESS OBSTRUCTIONS TO VISION AT ACCIDENT SITE FOG WIND DIRECTION-DEGREES 70 TYPE OF WEATHER CONDITIONS IFR REMARKS- TEMP 45 DEG-DEW-POINT 43 DEG.			CEILING AT ACCIDENT SITE 400 PRECIPITATION AT ACCIDENT SITE RAIN TEMPERATURE-F 45 WIND VELOCITY-KNOTS 11 TYPE OF FLIGHT PLAN NONE			
3-0235	2/23/68 TIME - 1530	HAWAII GRDN, CALIF	HUGHES 269B N9459F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	COMMERCIAL, FL. INSTR., AGE 33, 1698 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. REMARKS- DURING PRACTICE AUTOROTATION, PLT FAILED TO MAINTAIN ROTOR RPM ON FLARE OR LEVEL ACFT ON TOUCHDOWN.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0265	2/27/68 TIME - 1400	WINDNA, ARIZ	HILLER UN-12L N978DC DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 40, 6000 TOTAL HOURS, 200 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: HOVERING IN FLIGHT: EMERGENCY DESCENT			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: VALVE ASSEMBLIES MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND FIRE AFTER IMPACT REMARKS- FAILURE OF NO 2 CYL EXHAUST VALVE.						
3-0320	2/23/68 TIME - 1245	LONG BEACH, CALIF	HUGHES 269B N9455F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL SOLO	STUDENT, AGE 33, 48 TOTAL HOURS, 9 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LONG BEACH, PAD 2 TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION IN FLIGHT: HOVERING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL PERSONNEL - FLIGHT INSTRUCTOR: INADEQUATE TRAINING OF STUDENT REMARKS- PREMATURE SOLOING OF STUDENT.						
3-0349	1/16/68 TIME - 1005	DELTA, OHIO	BELL 47G-2 N6772D DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 2	COMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 33, 2966 TOTAL HOURS, 1188 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: CONTROLLED ROLL OVER			PHASE OF OPERATION TAXI: AERIAL TAXI, OTHER LANDING: OTHER			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED ALTITUDE AND CLEARANCE FACTOR TERRAIN - SNOW-COVERED REMARKS- RT SKID DUG INTO RISING TERRAIN CAUSED UNCONTROLLED LNDG. TAXIING AT 3 FT HEIGHT.						
3-0448	2/27/68 TIME - 1410	SINKING SPGS, OHIO	HUGHES 269B N9406F DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 1	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 33, 591 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION LANDING: FINAL APPROACH			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0500	3/20/68 TIME - 1735	NR. CASTAIC, CALIF	BELL 47G3B1 N7822S DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 2	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, AGE 33, 1428 TOTAL HOURS, 254 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SITE 336A PAD						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: OBJECT			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
PILOT IN COMMAND - SELECTED UNSUITABLE TERRAIN						
FIRE AFTER IMPACT						
REMARKS- MAIN ROTOR STRUCK ADJACENT HIGHER TERRAIN, WHILE LNDG ON PAD TOO SMALL FOR TYPE OF ACFT.						
3-0502	3/24/68 TIME - 1652	HNTNGTN BCH, CALIF	BELL 47G-2 N6720D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 25, 1500 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MEADOWLARK						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: CONTROLLED			TAXI: AERIAL TAXI, OTHER			
ROLL OVER			LANDING: OTHER			
PROBABLE CAUSE						
PILOT IN COMMAND - MISJUDGED ALTITUDE AND CLEARANCE						
PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
MISCELLANEOUS ACTS, CONDITIONS - ACTION, LACK OF						
REMARKS- STRUCK T/R ON BEACH, WHILE TOWING BOAT TO SHORE, UNCONTROLLED LNDG, FAILED TO INITIATE EMGCT PROCEDURE						
3-0507	3/16/68 TIME - 1730	GREENVILLE, TEX	BELL 47D1 N8282E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	COMMERCIAL, FL. INSTR., AGE 37, 4585 TOTAL HOURS, 16 IN TYPE, INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
HARD LANDING			LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR						
PILOT IN COMMAND - MISJUDGED SPEED						
REMARKS- OVER-CONTROLLED IN ATTEMPTING TO REDUCE EXCESSIVE FORWARD SPEED TOO ABRUPTLY.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0510	2/3/68 TIME - 1230	YELLOWSTONE P, WYO	BELL 47G-3 N8416E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL MAPPING/PHOTO	COMMERCIAL, FL. INSTR., AGE 47, 1837 TOTAL HOURS, 90 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE WEATHER - ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC. MISCELLANEOUS ACTS, CONDITIONS - ICE-WINDSHIELD TERRAIN - SNOW-COVERED WEATHER BRIEFING - SELF-HELP, PILOT CHECKED WEATHER DATA WEATHER FORECAST - UNKNOWN/NOT REPORTED EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT						
SKY CONDITION BROKEN			CEILING AT ACCIDENT SITE 1500			
VISIBILITY AT ACCIDENT SITE 5 OR OVER			PRECIPITATION AT ACCIDENT SITE NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE			TEMPERATURE-F 30			
TYPE OF WEATHER CONDITIONS VFR			TYPE OF FLIGHT PLAN NONE			
FIRE AFTER IMPACT REMARKS- LANDED TO REMOVE ICE FROM BUBBLE. RT SKID BROKE THROUGH SNOW CRUST.						
3-0518	2/24/68 TIME - 1745	WALLS, MISS	BELL 206A N7876S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 43, 250 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TWINKLETOWN						
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0530	3/16/68 TIME - 1230	ADELANTO,CALIF	BENSEN B-8 N1697 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 53, 2900 TOTAL HOURS, 81 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - EL MIRAGE TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE POWERPLANT - FUEL SYSTEM: PUMPS PWR PLT - DEFECTIVE FUEL PUMP DIAPHRAGM. PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING						
3-0534	3/26/68 TIME - 1500	ADELANTO,CALIF	BENSEN MCCANN N94286 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	MISCELLANEOUS TEST	NO CERTIFICATE, AGE 47, 135 TOTAL HOURS, 75 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - EL MIRAGE TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE PILOT IN COMMAND - IMPROPER COMPENSATION FOR WIND CONDITIONS WEATHER - UNFAVORABLE WIND CONDITIONS WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE TYPE OF WEATHER CONDITIONS VFR REMARKS- .TAXI TEST,ENCOUNTERED STRONG GUST OF WIND,ACFT BECAME AIRBORNE,ROLLED TO THE RIGHT. PHASE OF OPERATION TAKEOFF: OTHER CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 285 TYPE OF FLIGHT PLAN NONE						
3-0539	1/15/68 TIME - 1535	CUCAMONGA,CALIF	HILLER UH12L4 N90483 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 1 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., AGE 37, 2364 TOTAL HOURS, 338 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - ONTARIO INTL TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR HARD LANDING PROBABLE CAUSE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: CLUTCH ASSEMBLY EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- CLUTCH SLIPPAGE DUE TO WCRN AND GLAZED FRICTION SHOES. PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0542	1/24/68 TIME - 1000	SUPERIOR, MONT	BELL 47G-3B N73269 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL. INSTR., AGE 35, 2600 TOTAL HOURS, 900 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: TREES			PHASE OF OPERATION LANDING: FINAL APPROACH			
PROBABLE CAUSE						
WEATHER - UNFAVORABLE WIND CONDITIONS						
WEATHER - DOWNDRAFT, UPDRAFTS						
TERRAIN - HIGH OBSTRUCTIONS						
WEATHER BRIEFING - BRIEFED BY WEATHER BUREAU PERSONNEL, IN PERSON						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			7000			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			30			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
270			15			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- ENCOUNTERED DOWNDRAFTS ON LEE SIDE OF MT. PLT UNABLE TO STOP SETTLING. ACFT FLYABLE, FLOWN TO ARPT.						
3-0564	2/21/68 TIME - 1200	DECKERS, COLO	SIKORSKY S-58C N868 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 28, 2550 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER			PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS						
TERRAIN - ROUGH/UNEVEN						
PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
FIRE AFTER IMPACT						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0639	3/30/68	NR. LEEVILLE, LA	BELL 47G-2A N74096 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CTR CARGO-D	COMMERCIAL, AGE 38, 3242 TOTAL HOURS, 677 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - C PLATFORM		PHASE OF OPERATION		
		TYPE OF ACCIDENT		IN FLIGHT: UNCONTROLLED DESCENT		
		COLLISION WITH GROUND/WATER: UNCONTROLLED				
		PROBABLE CAUSE				
		PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING				
		MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G.				
		MISCELLANEOUS ACTS, CONDITIONS - LATERAL IMBALANCE				
		REMARKS- LANDED WHILE ACFT WAS IN AN UNCONTROLLABLE RT TURN, BROUGHT ON BY RT EXTERNAL RACK BEING OVERLOADED				
3-0644	3/31/68	NR. WRANGELL, ALAS	HILLER UH-12E N5352V DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 53, 5340 TOTAL HOURS, 1269 IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT		PHASE OF OPERATION		
		ENGINE FAILURE OR MALFUNCTION		IN FLIGHT: NORMAL CRUISE		
		ROLL OVER		LANDING: POWER-OFF AUTOROTATIVE LANDING		
		PROBABLE CAUSE				
		POWERPLANT - FUEL SYSTEM: CARBURETOR				
		MISCELLANEOUS - FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS				
		MISCELLANEOUS ACTS, CONDITIONS - OBSTRUCTED				
		PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS				
		COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE				
		EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND				
		REMARKS- GLUED FILTER GASKET CAME LOOSE, LODGED IN THROAT OF LT CARB AT THE VENTURI, RESTRICTED AIR FLOW.				
3-0648	4/3/68	DECATUR, TEX	BELL TOMCAT N5192B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 44, 4500 TOTAL HOURS, 1500 IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT		PHASE OF OPERATION		
		COLLIDED WITH: WIRES/POLES		IN FLIGHT: SWATH RUN		
		PROBABLE CAUSE				
		PILOT IN COMMAND - MISJUDGED CLEARANCE				
		SPECIAL DATA				
		TOTAL HOURS IN CROP CONTROL - 1200		KIND OF OPERATION - SPAYING CROPS		
		KIND OF CROP - GRAIN FIELDS		TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC		
		PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED		GLOVES - NOT USED		
		GOGGLES - NOT USED		CRASH HELMET - AVAILABLE-NOT USED		
		COCKPIT CRASHPAD - NOT INSTALLED		CRASH BAR - NOT INSTALLED		
		TANK/HOPPER-LOCATION - SIDES		TERRAIN-TYPE - LEVEL, FLAT		
		ELEVATION-AREA BEING TREATED- FEET - 1000		SWATH RUN-HOW FLOWN - CROSSWIND		
		REMARKS- FLYING UNDER POWER LINE. TAIL ROTOR DESTROYED ON CONTACT WITH POWER LINE.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0649	4/4/68 TIME - 1354	STUMPY POINT, NC	KAMAN H43-A N2843J DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL FIRE CONTROL	COMMERCIAL, AGE 53, 4950 TOTAL HOURS, 106 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAXI: GROUND TAXI, OTHER			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT - DELAYED ATTEMPT TO LIFTOFF TO REGAIN CONTROL REMARKS- PLT ALLOWED ACFT TO ROLL BACKWARDS INTO A CANAL.						
3-0657	1/3/68 TIME - 0852	LOS ANGELES, CALIF	BELL 47G-4A N7821S DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 1 0	MISCELLANEOUS POLICE PATROL	ATR, FLIGHT INSTR., AGE 42, 2500 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TEMPLE-GRAND TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR COLLIDED WITH: OBJECT			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- LANDED ON CITY ST. TAIL BOOM STRUCK CONCRETE WALL. TOTAL TIME ON T/R 567 HRS.						
3-0764	2/28/68 TIME - 1320	LA VERNE, CALIF	BELL 47D N320R DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 32, 282 TOTAL HOURS, 145 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - BRACKETT FIELD TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT FACTOR TERRAIN - WET, SOFT GROUND REMARKS- IMPROPER TECHNIQUE FOR SOFT FIELD RUN-ON LG.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0769	3/4/68 TIME - 1400	RAND, COLO	BELL 47G3B1 N1323X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 27, 3677 TOTAL HOURS, 1103 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: PISTON, PISTON RINGS MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE FACTOR MISCELLANEOUS ACTS, CONDITIONS - CARBON DEPOSITS MISCELLANEOUS ACTS, CONDITIONS - BURNED PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- HOLE BURNT NO 5 PISTON. CARBON BUILDUP ON PISTON TOP. PISTON CRACKED. GAME COUNT, COLO FISH & GAME DEPT.						
3-0770	3/5/68 TIME - 0810	CARLSBAD, CALIF	HUGHES 269B N19543 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, FL. INSTR., AGE 49, 6391 TOTAL HOURS, 2057 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PALOMAR HELIPAD TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR AIRFRAME FAILURE: ON GROUND			PHASE OF OPERATION TAXI: AERIAL TAXI TO/FROM LANDING STATIC: IDLING ROTORS			
PROBABLE CAUSE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: MAIN ROTOR GEAR BOX MISCELLANEOUS ACTS, CONDITIONS - LACK OF LUBRICATION-SPECIFIC PART, NOT SYSTEM MISCELLANEOUS ACTS, CONDITIONS - OBSTRUCTED MISCELLANEOUS - FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS PERSONNEL - PRODUCTION-DESIGN: SUBSTANDARD QUALITY CONTROL MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE REMARKS- TENSION FAILURE OF BLADES. AFT PINION BEARING SEIZED. POL RESIN CAUGHT ON BURRS OF DRILLED OIL PORT.						
3-0799	4/3/68 TIME - 1730	CONCORD TWP, PA	BELL 47J-2A N114CW DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 44, 5000 TOTAL HOURS, 25 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS MISCELLANEOUS ACTS, CONDITIONS - FUEL STARVATION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- INADVERTENTLY PULLED MIXTURE CONTROL.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0801	4/4/68 TIME - 1330	FOX PARK, WYO	HUGHES 269A N8891F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL POWER/PIPELINE	COMMERCIAL, FL. INSTR., AGE 41, 4654 TOTAL HOURS, 105 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE WEATHER - DOWNDRAFT, UPDRAFTS WEATHER - UNFAVORABLE WIND CONDITIONS TERRAIN - SNOW-COVERED WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND ADVERSE/UNFAVORABLE WEATHER						
SKY CONDITION UNKNOWN/NOT REPORTED			CEILING AT ACCIDENT SITE 2000			
VISIBILITY AT ACCIDENT SITE 5 OR OVER			PRECIPITATION AT ACCIDENT SITE NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE			TEMPERATURE-F 35			
WIND DIRECTION-DEGREES 315			WIND VELOCITY-KNOTS 30			
TYPE OF WEATHER CONDITIONS VFR			TYPE OF FLIGHT PLAN NONE			
REMARKS- 4-5FT DEEP SNOW. MAIN-TAIL ROTORS DAMAGED ON SNOW CONTACT. WIND 30K GUSTING 40K FORCED ACFT TO GRND.						
3-0802	4/4/68 TIME - 1500	CULVER CITY, CALIF	HUGHES 269A N8923F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 30, 1284 TOTAL HOURS, 903 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - HUGHES TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL			
PROBABLE CAUSE DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS DUAL STUDENT - SPONTANEOUS-IMPROPER ACTION REMARKS- STUDENT APPLIED FULL RT CYCLIC CONTROL. INSTRUCTOR COULD NOT MAKE CORRECTION IN TIME.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0849	3/28/68 TIME - 1530	ST PAUL, MINN	HUGHES 269B N9487F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, FL. INSTR., AGE 37, 1300 TOTAL HOURS, 300 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LAMETTI-SONS PVT						
TYPE OF ACCIDENT MISCELLANEOUS			PHASE OF OPERATION STATIC: IDLING ROTORS			
PROBABLE CAUSE						
WEATHER - UNFAVORABLE WIND CONDITIONS						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR			CEILING AT ACCIDENT SITE UNLIMITED			
VISIBILITY AT ACCIDENT SITE 5 OR OVER			PRECIPITATION AT ACCIDENT SITE NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE			TEMPERATURE-F 74			
WIND DIRECTION-DEGREES 260			WIND VELOCITY-KNOTS 20			
TYPE OF WEATHER CONDITIONS VFR			TYPE OF FLIGHT PLAN NONE			
REMARKS- DURING DECELERATION OF M/R BLADES, WINDS 20K-GUSTS TO 30K, CAUSED BLADE TO STRIKE T/R AND TAIL BOOM.						
3-0891	4/11/68 TIME - 1630	BROOMFIELD, COLC	HUGHES 269B N9500F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 30, 1900 TOTAL HOURS, 16 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - FUEL SYSTEM: FUEL INJECTION SYSTEM						
MISCELLANEOUS - FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS						
MISCELLANEOUS ACTS, CONDITIONS - FUEL STARVATION						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- FOREIGN MATTER OF UNDETERMINED ORIGIN BLOCKED FUEL FLOW.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0952	4/12/68 TIME - 1330	CLOVIS, N MEX	BELL 47G3B1 N8462E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 30, 2904 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: CONTROLLED			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - GRAIN FIELDS PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 4100 REMARKS- TAIL ROTOR STRUCK GROUND.						
KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT PROCEDURE TURNAROUND - THIRD 1/3 OF TURN						
3-0961	5/9/68 TIME - 1715	ASHEVILLE, NC	BELL 47G5 N7841S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 40, 7750 TOTAL HOURS, 45 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: AUTOMOBILE			PHASE OF OPERATION TAXI: AERIAL TAXI, OTHER			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - PASTURE PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - OTHER REMARKS- MAIN ROTOR BLADE STRUCK HOPPER TRUCK AFTER RELEASING EMPTY HOPPER FROM SLING AND MOVING AWAY.						
KIND OF OPERATION - FERTILIZING (DUST) TYPE OF CHEMICAL USED - DRY CHEMICAL-NONTXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - HILLY						
3-1003	4/23/68 TIME - 0715	JOLIET, ILL	HUGHES 269B N9463F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, FL. INSTR., AGE 28, 1684 TOTAL HOURS, 668 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: CLIMB TO CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1020	3/9/68 TIME - 1040	CARLSBAD,CALIF	BELL 47D1 N5511V DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0	MISCELLANEOUS OTHER	COMMERCIAL, AGE 28, 1375 TOTAL HOURS, 945 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - PALOMAR			PHASE OF OPERATION	
		TYPE OF ACCIDENT			TAKEOFF: VERTICAL	
		ROLL OVER				
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
COPILOT - CONTROL INTERFERENCE						
FIRE AFTER IMPACT						
REMARKS- LOSS OF CONTROL DURING LIFT OFF FROM TRAILER.TWO UNIDENTIFIED PARKED ACFT STRUCK BY DEBRIS.						
3-1117	1/10/68 TIME - 1143	GALVESTON,TEX	BELL 204-B N8540F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 9	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 46, 7490 TOTAL HOURS, 566 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - SCHOLES FIELD			PHASE OF OPERATION	
		TYPE OF ACCIDENT			IN FLIGHT: HOVERING	
		PROPELLER/ROTOR FAILURE: TAIL ROTOR			LANDING: POWER-OFF AUTOROTATIVE LANDING	
		HARD LANDING				
PROBABLE CAUSE						
ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: TAIL ROTOR GEAR BOX						
POWERPLANT - LUBRICATING SYSTEM: SEALS AND GASKETS						
MISCELLANEOUS ACTS,CONDITIONS - LEAK/LEAKAGE						
PERSONNEL - MAINTENANCE,SERVICING,INSPECTION: IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL)						
EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP.T.						
DIRECTIONAL CONTROL PROBLEM						
SUSPECTED MECHANICAL DISCREPANCY						
REMARKS- COUPLING SPLINES FAILED DUE TO LOSS OF LUBRICANT.SEAL DETERIORATED BY REACTIVE SOLVENT USED.						
3-1195	5/4/68 TIME - 1600	WINSTED,MINN	BENSEN B-8 N1075Z DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 33, 35 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - WINSTED			PHASE OF OPERATION	
		TYPE OF ACCIDENT			TAKEOFF: INITIAL CLIMB	
		ENGINE FAILURE OR MALFUNCTION			LANDING: LEVEL OFF/TOUCHDOWN	
		ROLL OVER				
PROBABLE CAUSE						
POWERPLANT - IGNITION SYSTEM: MAGNETOES						
MISCELLANEOUS - FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS						
PERSONNEL - MAINTENANCE,SERVICING,INSPECTION: IMPROPER MAINTENANCE (OWNER PERSONNEL)						
AIRPORTS/AIRWAYS/FACILITIES - AIRPORT CONDITIONS: OTHER						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP.T.						
REMARKS- PLT INCORRECTLY INSTALLED LUBRICATION FELT WHICH BECAME WEDGED BETWEEN PTS.LANDED IN PLOWED AREA.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1291	1/18/68 TIME - 1000	NR.WYOLA,MONT	HUGHES 269B N9389F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 31, 2227 TCAL HOURS, 305 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
REMARKS- SNOW-COUNT SURVEY.ACFT STRUCK GRND SPINNING TO THE RIGHT.						
3-1302	4/2/68 TIME - 1010	NEWPORT,OREG	HILLER UH-12E N9757C DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 2 0	COMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 33, 2000 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - NEWPORT TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR GBSTRUCTIONS FIRE AFTER IMPACT						
3-1356	3/31/68 TIME - 1100	YAKIMA,WASH	HUGHES 269A N8888F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 59, 16578 TOTAL HOURS, 578 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT STALL: MUSH			PHASE CF OPERATION IN FLIGHT: PROCEDURE TURNAROUND			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS ROTORCFT - ACFT IN SETTLING WITH POWER CONDITION.						
3-1365	5/5/68 TIME - 1630	SAN ANTONIO,TEX	BELL-CARSON 47G N614X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 3	COMMERCIAL AIR TAXI-PASSG	ATR,FLIGHT INSTR., AGE 39, 2500 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND FIRE AFTER IMPACT REMARKS- PLT STATED HE LOST PARTIAL CYCLIC CONTROL AND FULL ENG POWER ON TAKEOFF.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1376	4/24/68	NR. BRIDGEPORT, WASH	BELL 47G-2 N6717D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 42, 5829 TOTAL HOURS, 135 IN TYPE, NOT INSTRUMENT RATED.
<p>TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING</p> <p>PHASE OF OPERATION IN FLIGHT: SWATH RUN LANDING: POWER-OFF AUTOROTATIVE LANDING</p> <p>PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - INATTENTIVE TO FUEL SUPPLY MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND</p> <p>SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 5100 KIND OF CROP - GRAIN FIELDS GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - HILLY SWATH RUN-HOW FLOWN - CROSSWIND</p> <p>KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOTOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 2200</p>						
3-1385	5/10/68	NR. MANSFIELD, WASH	BELL 47G-2 N6717D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 42, 5925 TOTAL HOURS, 141 IN TYPE, NOT INSTRUMENT RATED.
<p>TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES HARD LANDING</p> <p>PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND LANDING: POWER-ON LANDING</p> <p>PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PROP/ENGINE VIBRATION SUSPECTED OR KNOWN AIRCRAFT DAMAGE</p> <p>SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 5200 KIND OF CROP - GRAIN FIELDS GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - MOUNTAINOUS SWATH RUN-HOW FLOWN - UNKNOWN/NCT REPORTED</p> <p>KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOTOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 2500 PROCEDURE TURNAROUND - FIRST 1/3 OF TURN</p>						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1396	5/17/68 TIME - 0518	LEEVILLE, LA	BELL 47G-4 N1331X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 24, 2017 TOTAL HGURS, 20 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PHI HELIPORT						
TYPE OF ACCIDENT			PHASE OF OPERATION			
MISCELLANEOUS			TAKEOFF: VERTICAL			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: CLUTCH ASSEMBLY						
ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: FREE WHEEL UNIT						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
FACTOR						
TERRAIN - ROUGH/UNEVEN						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- SLIPPAGE BETWEEN CLUTCH/FREEWHEELING UNIT. 24 SPRINGS, 3 CUSHIONS BROKE, CAUSED SHEAR SCREWS TO FAIL.						
3-1420	5/29/68 TIME - 0915	CAPITAN, N MEX	BELL 47G3B1 N1320X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 36, 2175 TOTAL HOURS, 1425 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: WIRES/POLES			TAKEOFF: INITIAL CLIMB			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - MISJUDGED CLEARANCE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
PROP/ENGINE VIBRATION						
3-1489	5/18/68 TIME - 0503	WEST DUNDEE, ILL	HUGHES 269B N8940F DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 45, 7500 TOTAL HOURS, 750 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - ELGIN						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: WIRES/POLES			IN FLIGHT: STARTING SWATH RUN			
PROBABLE CAUSE						
PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 600			KIND OF OPERATION - SPAYING CROPS			
KIND OF CROP - OTHER			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC			
PILOT'S SEAT BELT - FASTENED-PROPERLY			GLOVES - USED			
GOGGLES - NOT USED			CRASH HELMET - AVAILABLE-USED			
COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED			
TANK/HOPPER-LOCATION - SIDES			TERRAIN-TYPE - LEVEL, FLAT			
ELEVATION-AREA BEING TREATED- FEET - 840			SWATH RUN-HOW FLOWN - WIND CALM			
REMARKS- SPRAYING EVERGREENS. NO PRE-FLT SURVEILLANCE OF AREA.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1494	5/22/68 TIME - 1320	YUKON, OKLA	BELL 47G3B1 N6228N DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	ATR, FLIGHT INSTR., AGE 50, 9640 TOTAL HOURS, 350 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - CIMARRON		PHASE OF OPERATION		
		TYPE OF ACCIDENT HARD LANDING		LANDING: POWER-OFF AUTOROTATIVE LANDING		
		PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT				
3-1499	5/27/68 TIME - 0835	JENKS, OKLA	HUGHES 269A N8843F DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 39, 870 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - RIVERSIDE		PHASE OF OPERATION		
		TYPE OF ACCIDENT AIRFRAME FAILURE: ON GROUND		LANDING: POWER-ON LANDING		
		PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE REMARKS- OCCURRED AT TOUCH-DOWN. GENERAL DISINTEGRATION.				
3-1538	6/20/68 TIME - 1000	CHEROKEE, NC	BELL 47G-4A N7930S DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 40, 7850 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: CONTROLLED		PHASE OF OPERATION IN FLIGHT: SWATH RUN		
		PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED ALTITUDE TERRAIN - OTHER				
		SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KIND OF CROP - OTHER GLOVES - NOT USED CRASH HELMET - AVAILABLE - NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - HILLY MOUNTAINOUS				
		KIND OF OPERATION - DEFOLIATION (LIQUID) TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 4000 SWATH RUN-HOW FLOWN - WIND CALM				
		FIRE AFTER IMPACT REMARKS- OPERATING CLOSE TO GROUND IN HILLY AREA. BRUSH CONTROL.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N			FLIGHT PURPOSE	PILOT DATA	
3-1544	5/2/68 TIME - 1025	NR.ASPEN,COLO	BELL 47G3B1 N8575F DAMAGE-SUBSTANTIAL	CR-	0	1	0	COMMERCIAL MAPPING/PHOTO	COMMERCIAL, AGE 42, 5200 TOTAL HOURS, 1790 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED			PHASE OF OPERATION IN FLIGHT: LOW PASS						
PROBABLE CAUSE PILOT IN COMMAND - SPATIAL DISORIENTATION MISCELLANEOUS ACTS,CONDITIONS - WHITEOUT TERRAIN - SNOW-COVERED REMARKS- PHOTOGRAPHING SKIERS.									
3-1548	5/17/68 TIME - 1015	NR.MANATI,PR	HILLER UH-12 N979CC DAMAGE-DESTROYED	CR-	0	1	0	COMMERCIAL MAPPING/PHOTO	PRIVATE, AGE 32, 615 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR COLLISON WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE IN FLIGHT: UNCONTROLLED DESCENT						
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR HEAD ASSEMBLIES MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE FACTOR MISCELLANEOUS ACTS,CONDITIONS - SEPARATION IN FLIGHT EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PROP/ENGINE VIBRATION REMARKS- POLICE PHOTO-MISSION.CONTROL ROTOR BLADE ASSEMBLY,P/N36209-3,SEPARATED FROM CONTROL ROTOR CUFF.									
3-1553	6/6/68 TIME - 0830	NR.BAGGS,WYO	BELL 47G-3B N8532F DAMAGE-SUBSTANTIAL	CR-	0	0	1	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 31, 3200 TOTAL HOURS, 1500 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING						
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS,CONDITIONS - INATTENTIVE TO FUEL SUPPLY MISCELLANEOUS ACTS,CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND									

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1563	2/6/68 TIME - 1630	NR.LAKESIDE, NEBR	BRANTLY B-2B N2287U DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 41, 700 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			IN FLIGHT: NORMAL CRUISE			
COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES						
MISCELLANEOUS ACTS, CONDITIONS - CORRODED/CORROSION						
MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE						
PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT						
MISSING AIRCRAFT - LATER RECOVERED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
LATERAL CONTROL PROBLEM						
REMARKS- RECOVERY DATE-2/7/68. FAILURE OF T/R BLADE SPAR IN THE INSIDE BEARING BCSS RADIUS.						
3-1592	6/20/68 TIME - 1730	WEST POINT, VA	BENSEN B-8M N4210 DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 0 0 0	MISCELLANEOUS TEST	PRIVATE, AGE 33, 363 TOTAL HOURS, 1 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WEST POINT			PHASE OF OPERATION			
TYPE OF ACCIDENT			TAKEOFF: INITIAL CLIMB			
PROPELLER/ROTOR FAILURE: MAIN ROTOR			IN FLIGHT: UNCONTROLLED DESCENT			
COLLISION WITH GROUND/WATER: UNCONTROLLED						
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR BLADES						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
ROTORCRAFT - SUDDEN DISSYMMETRY OF LIFT.						
REMARKS- SECTION, 6 IN X 12 IN, SEPARATED, PORTION OF BLADE SKIN						
3-1595	4/27/68 TIME - 2333	NR. CARPENTERIA, CALIF	BELL 206A N6275N DAMAGE-DESTROYED	CR- 1 0 0 PX- 4 0 0	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 40, 7000 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
UNDETERMINED			UNKNOWN/NOT REPORTED			
PROBABLE CAUSE						
MISCELLANEOUS - UNDETERMINED						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
MISSING AIRCRAFT - LATER RECOVERED						
REMARKS- RECOVERY DATE-4/28/68. MAIN ROTOR BLADES, ENGINE, 95 PCT OF FUSELAGE, PLT, PX MISSING. 8 MI OFF SHORE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1612	2/6/68 TIME - 1330	ONAWA, IOWA	BELL 47G N970B DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL OTHER	COMMERCIAL, FL. INSTR., AGE 33, 2309 TCTAL HOURS, 71 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ONAWA						
TYPE OF ACCIDENT			PHASE OF OPERATION			
ROLL OVER			STATIC: IDLING ROTORS			
COLLIDED WITH: AUTOMOBILE			STATIC: IDLING ROTORS			
PROBABLE CAUSE						
PILOT IN COMMAND - LEFT AIRCRAFT UNATTENDED, ENGINE RUNNING						
PILOT IN COMMAND - ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT						
WEATHER - UNFAVORABLE WIND CONDITIONS						
FACTOR						
ROTORCRAFT - FLIGHT CONTROL SYSTEMS: COLLECTIVE PITCH CONTROL SYSTEM						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION			CEILING AT ACCIDENT SITE			
CLEAR			UNLIMITED			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			35			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
320			20			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- TIMBER SPOTTING. DEPLANED TO DISCONNECT BOOSTER CABLES MOVE TRUCK. WIND 20K. FRICTION LOCK INOP.						
3-1634	6/4/68 TIME - 1055	NR. MT MORRIS, NY	BELL 47D1 N925V DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 43, 1350 TCTAL HOURS, 115 IN TYPE, NOT INSTRUMENT MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
STALL: MUSH			IN FLIGHT: PROCEDURE TURNAROUND			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
ROTORCFT - ENTERED SETTLING WITH POWER CONDITION.						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - JETTISONED LOAD						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 60			KIND OF OPERATION - SPAYING CROPS			
KIND OF CROP - PEAS			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC			
PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED			GLOVES - USED			
GOGGLES - USED			CRASH HELMET - AVAILABLE-NOT USED			
COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED			
TANK/HOPPER-LOCATION - AFT OF PILOT			TERRAIN-TYPE - LEVEL, FLAT			
ELEVATION-AREA BEING TREATED- FEET - 600			SWATH RUN-HOW FLOWN - DOWNWIND			
PROCEDURE TURNAROUND - ENTRY TO PROCEDURE TURN						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1684	5/22/68	UNKNOWN/NOT REPORTED	BELL 47G3B1 N73965	CR- 0 0 1 PX- 0 0 2	MISCELLANEOUS DEMONSTRATION	COMMERCIAL, AGE 32, 2000 TOTAL HOURS, 20 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			LANDING: FINAL APPROACH			
ROLL OVER			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS						
PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR						
WEATHER - HIGH DENSITY ALTITUDE						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SKY CONDITION				CEILING AT ACCIDENT SITE		
CLEAR				UNLIMITED		
VISIBILITY AT ACCIDENT SITE				PRECIPITATION AT ACCIDENT SITE		
5 OR OVER				NONE		
OBSTRUCTIONS TO VISION AT ACCIDENT SITE				TEMPERATURE-F		
NONE				55		
WIND DIRECTION-DEGREES				WIND VELOCITY-KNOTS		
180				25		
TYPE OF WEATHER CONDITIONS				TYPE OF FLIGHT PLAN		
VFR				NONE		
REMARKS- RUN-ON LDG ON ROCK COVERED TERRAIN.DENSITY ALT 10160 FT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1707	7/4/68 TIME - 1122	GULFPORT, MISS	SIKORSKY S-51 N13183 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL BUSINESS	AIRLINE TRANSPORT, AGE 50, 14100 TOTAL HOURS, 4 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GULFPORT MUNI TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: CONTROLLED ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR PILOT IN COMMAND - LACK OF FAMILIARITY WITH AIRCRAFT WEATHER - UNFAVORABLE WIND CONDITIONS WEATHER BRIEFING - BRIEFED BY FLIGHT SERVICE PERSONNEL, BY RADIO WEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 45 TYPE OF WEATHER CONDITIONS VFR REMARKS- WIND 10K GUSTY. ACFT DRAGGED WHEEL.						
CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 85 WIND VELOCITY-KNOTS 10 TYPE OF FLIGHT PLAN NONE						
3-1710	4/20/68 TIME - 1035	TIGARD, OREG	HUGHES 269B N9477F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 48, 1790 TOTAL HOURS, 43 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MEYER TYPE OF ACCIDENT ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR TERRAIN - WET, SOFT GROUND REMARKS- SKID STUCK IN MUD. FAILED TO GET ACFT LIGHT ON SKIDS BEFORE LIFT-OFF.						
PHASE OF OPERATION IN FLIGHT: HOVERING IN FLIGHT: HOVERING TAKEOFF: VERTICAL						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1721	6/11/68 TIME - 0900	GULFPORT, MISS	HUGHES 269B N9393F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 45, 2300 TOTAL HOURS, 300 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: TAIL ROTOR HARD LANDING			IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: UNIVERSAL JOINTS, COUPLINGS						
MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED						
PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL)						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
REMARKS- LANDED IN GULF OF MEX. SPLINE COUPLING SLIPPED OUT OF POSITION DUE TO UNSAFETIED RETAINING NUT.						
3-1722	6/14/68 TIME - 1230	OGDEN, UT	BELL 47G-5 N7907S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	INSTRUCTIONAL TRAINING	ATR, FLIGHT INSTR., AGE 48, 10200 TOTAL HOURS, 5 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: CONTROLLED			IN FLIGHT: OTHER			
PROBABLE CAUSE						
PILOT IN COMMAND - MISJUDGED SPEED AND ALTITUDE						
REMARKS- TAIL ROTOR STRUCK GROUND DURING POWER RECOVERY FROM A PRACTICE AUTOROTATION. U.S. FOREST SERVICE.						
3-1759	3/30/68 TIME - 1515	ORANGE, TEX	BRANTLY 305 N2212U DAMAGE-DESTROYED	CR- 0 0 1 PX- 1 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 31, 2331 TOTAL HOURS, 144 IN TYPE, INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
STALL GEAR COLLAPSED			TAKEOFF: INITIAL CLIMB LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR						
TERRAIN - HIGH OBSTRUCTIONS						
PILOT IN COMMAND - SELECTED UNSUITABLE TERRAIN						
MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE						
REMARKS- T/O MADE FROM CONFINED AREA WITH FULL POWER. ACFT BEGAN ROTATION TO RT. LANDED ON RR STA PLATFORM.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1761	6/3/68 TIME - 1500	NR.MORGAN.CITY,LA	BELL 206A N7943S DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 36, 4140 TOTAL HOURS, 42 IN TYPE, NOT. INSTRUMENT RATED.
TYPE OF ACCIDENT UNDETERMINED			PHASE OF OPERATION UNKNOWN/NOT REPORTED			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED FACTOR						
MISCELLANEOUS ACTS,CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
REMARKS- CRASHED IN GULF OF MEXICO,PLT MISSING.INJURY INDEX PRESUMED. FLOAT EQUIPPED.						
3-1775	4/20/68 TIME - 1400	CAPE CANAVERL,FLA	BELL 47H-1 N2891B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL OTHER	COMMERCIAL, AGE 42, 1580 TOTAL HOURS, 154 IN TYPE, NOT. INSTRUMENT RATED.
NAME OF AIRPORT - PT KENNEDY HELIPT TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION TAKEOFF: ABORTED			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING ON AIRPORT SUSPECTED MECHANICAL DISCREPANCY PROP/ENGINE VIBRATION						
REMARKS- CAUSE OF VIBRATION UNDETERMINED.MAIN ROTOR HIT TAIL BOOM ON LDG.						
3-1806	6/2/68 TIME - 1600	LAKE WINNEBAGO,MO	BENSEN B8M N7520 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 42, 14 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LAKE WINNEBAGO TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: PISTION,PISTON RINGS MISCELLANEOUS ACTS,CONDITIONS - SCORED MISCELLANEOUS ACTS,CONDITIONS - EXCESSIVE TEMPERATURE COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- COOLING BAFFLES INSTALLED BY OWNER 20 MIN PRIOR ACCIDENT CAUSED ENG OVERHEATING.NO 3 PISTON SEIZED						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1840	6/18/68 TIME - 1430	STORMVILLE, NY	BENSEN B8M N2103 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 24, 117 TOTAL HOURS, 19 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - STORMVILLE						
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: NORMAL CRUISE			
ROLL OVER			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - ENGINE STRUCTURE: PISTON, PISTON RINGS						
MISCELLANEOUS ACTS, CONDITIONS - OVERHEATED						
POWERPLANT - IGNITION SYSTEM: SPARK PLUG						
MISCELLANEOUS ACTS, CONDITIONS - GROUNDED						
PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION						
TERRAIN - WET, SOFT GROUND						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- NR 4 PISTON BURNED, RINGS FROZEN IN GROOVES, ALUMINUM DEPOSITS NR 4 SPARK PLUG. LANDED IN SWAMP.						
3-1851	6/21/68 TIME - 1000	CRONA D MAR, CALIF	BELL 47D1 N12512 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 35, 1160 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ORANGE COUNTY						
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			IN FLIGHT: AUTOROTATIVE DESCENT			
PROBABLE CAUSE						
MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS						
ROTORCFT - TAIL ROTOR GRIP RETAINING BOLT.						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT						
MISCELLANEOUS ACTS, CONDITIONS - OUT OF BALANCE						
MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
DIRECTIONAL CONTROL PROBLEM						
PROP/ENGINE VIBRATION						
REMARKS- TAIL ROTOR TRANSMISSION ALSO SEPARATED.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1900	6/14/68 TIME - 1638	RICE LAKE, WIS	BELL 47J-2 N73258 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, AGE 48, 4000 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - RICE LAKE						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
MISCELLANEOUS - UNDETERMINED						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
REMARKS- TEST FLT AFTER RE-INSTALLATION OF MAIN ROTOR BLADES REMOVED FOR TRAILERING-SANK IN 20 FT OF WATER.						
3-1947	3/21/68 TIME - 0130	MARLOW HEIGHTS, MD	HUGHES 300 N9502F DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0	MISCELLANEOUS POLICE PATROL	COMMERCIAL, AGE 35, 2000 TOTAL HOURS, 269 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: WIRES/POLES			IN FLIGHT: HOVERING			
PROBABLE CAUSE						
PILOT IN COMMAND - EXERCISED POOR JUDGMENT						
PILOT - HOVERED OVER UNFAMILIAR AREA AT NIGHT.						
TERRAIN - HIGH OBSTRUCTIONS						
FIRE AFTER IMPACT						
REMARKS- INVESTIGATING SUSPECTED BANK ROBBERY.						
3-2005	3/13/68 TIME - 1545	SAGINAW, TEX	BELL 206A N6270N DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 1 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, AGE 27, 2293 TOTAL HOURS, 109 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GLOBE PLANT						
TYPE OF ACCIDENT			PHASE OF OPERATION			
ROLL OVER			UNKNOWN/NOT REPORTED			
PROBABLE CAUSE						
DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS						
PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT						
REMARKS- INSTR STATED ROLL-OVER OCCURRED DURING LIFT-OFF, STUDENT STATED DURING ATTEMPTED LDG FROM HOVER.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2006	3/23/68	ST LOUIS, MO	BRANTLY 305 N2224U DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 2 0 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 25, 2467 TOTAL HOURS, 62 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - DOWNTOWN HELIPORT						
TYPE OF ACCIDENT			PHASE OF OPERATION			
ROLL OVER			LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
PILOT IN COMMAND - IMPROPER COMPENSATION FOR WIND CONDITIONS						
FACTOR						
WEATHER - UNFAVORABLE WIND CONDITIONS						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT						
UNKNOWN/NOT REPORTED						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			2800			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			32			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
290			15			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- WINDS 15K GUSTING TO 20K. ACFT SANK IN MISS. RIVER, PLTS BODY RECOVERED 9/30/68. ACFT FLOAT EQUIPPED.						
3-2049	7/14/68	SHAFTER, CALIF	BENSEN B-8M N1585 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE	STUDENT, AGE 29, 27 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SHAFTER						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH AIRCRAFT: BOTH ON GROUND			TAXI: GROUND TAXI FROM LANDING			
PROBABLE CAUSE						
PERSONNEL - MISCELLANEOUS-PERSONNEL: PILOT OF OTHER AIRCRAFT						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2063	4/24/68 TIME - 1155	NR.ASPEN,COLO	BELL 47G3B1 N7942S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 48, 12200 TOTAL HOURS, 2400 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT UNDERSHOOT ROLL OVER			PHASE OF OPERATION LANDING: FINAL APPROACH LANDING: OTHER			
PROBABLE CAUSE PILOT IN COMMAND - EXERCISED POOR JUDGMENT WEATHER - DOWNDRAFT,UPDRAFTS WEATHER - UNFAVORABLE WIND CONDITIONS TERRAIN - OTHER WEATHER BRIEFING - UNKNOWN/NOT REPORTED WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 45 TYPE OF WEATHER CONDITIONS VFR			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 59 WIND VELOCITY-KNOTS 15 TYPE OF FLIGHT PLAN NONE			
REMARKS- ATTEMPTED LDG UNDER ADVERSE CONDITIONS OF ROCKY MT TERRAIN.WINDS 15K,GSTS 20K,CAUSED PREMATURE LDG						
3-2074	6/4/68 TIME - 0500	NR.BANGOR,PA	BELL 47D-1 N6598D DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 31, 1307 TOTAL HOURS, 1037 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND LANDING: OTHER			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS MISCELLANEOUS - EVASIVE MANEUVER TO AVOID COLLISION TERRAIN - OTHER FACTOR MISCELLANEOUS ACTS,CONDITIONS - JETTISONED LOAD PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - FOREST-TREES PILOT'S SEAT BELT - FASTENED-PROPERLY CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - MOUNTAINOUS SWATH RUN-HOW FLOWN - WIND CALM			KIND OF OPERATION - SPAYING FORESTS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 1500 PROCEDURE TURNAROUND - ENTRY TO PROCEDURE TURN			
REMARKS- INTENTIONAL CRASH INTO TREES TO AVOID POWERLINE.SIDE OF MT DENSE WITH TREES.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2080	2/19/68 TIME - 1425	WEST LIBERTY, IOWA	BENSEN B8M N5315 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 28, 148 TOTAL HOURS, 4 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: LOW PASS			
COLLISION WITH GROUND/WATER: CONTROLLED			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
3-2082	3/15/68 TIME - 1330	WALLA WALLA, WASH	HUGHES 269B N9332F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 51, 10000 TOTAL HOURS, 160 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			IN FLIGHT: NORMAL CRUISE			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES						
MISCELLANEOUS ACTS, CONDITIONS - VIBRATION, EXCESSIVE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT						
PROP/ENGINE VIBRATION						
REMARKS- OUT-OF-BALANCE BLADE DUE TO LOSS OF TAPE USED AS AN ABRASION STRIP ON LEADING EDGE.						
3-2083	4/4/68 TIME - 1530	NR. KENAI, ALAS	BELL 204-B N1189W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 46, 9000 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PLATFORM BAKER			PHASE OF OPERATION			
TYPE OF ACCIDENT			LANDING: POWER-ON LANDING			
GEAR COLLAPSED						
PROBABLE CAUSE						
ROTORCFT - REAR FLOAT CROSS TUBE FAILED IN FATIGUE.						
MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE						
MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE						
REMARKS- FRONT TUBE FAILED FROM OVERLOAD.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2086	5/20/68 TIME - 1247	DUTY, VA	SIKORSKY S-58A N887 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	MISCELLANEOUS OTHER	COMMERCIAL, AGE 30, UNK/NR TOTAL HCURS, 1000 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: HOVERING			
ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS						
TERRAIN - ROUGH/UNEVEN						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- EXTERNAL LOAD OPERATION.ROLL-OVER DUE TO LDG CN 30 DEG SLOPE.						
3-2087	6/5/68 TIME - 0730	MARION, VA	BELL 47G-4 N1160W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 28, 1829 TOTAL HOURS, 289 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: SURVEY FIELD/AREA			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2090	6/17/68 TIME - 0650	ARCOLA, IND	BELL 47G N28028 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 40, 1496 TOTAL HOURS, 235 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: NORMAL CRUISE			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS						
MISCELLANEOUS ACTS, CONDITIONS - ANTI-ICING/DEICING EQUIPMENT-IMPROPER OPERATION OF/FAILED TO USE						
MISCELLANEOUS ACTS, CONDITIONS - ICE-CARBURETOR						
WEATHER - CONDITIONS CONDUCTIVE TO CARB./INDUCTION SYSTEM ICING						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			8000			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			RAIN			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
HAZE			59			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
330			5			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2091	6/21/68 TIME - 1426	ALPINE, ARIZ	BELL 47G381 N73285 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL FIRE CONTROL	COMMERCIAL, FL. INSTR., AGE 48, 6373 TOTAL HOURS, 823 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING FACTOR WEATHER - HIGH DENSITY ALTITUDE MISCELLANEOUS ACTS, CONDITIONS - DOWNWIND WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 215 TYPE OF FLIGHT PLAN NONE			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 85 TYPE OF WEATHER CONDITIONS VFR			
REMARKS- T/O FROM RESTRICTED AREA, SETTLED DUE TO DOWNWIND T/O, NEAR GROSS WEIGHT, DENSITY ALT 12500 FT.						
3-2092	6/21/68 TIME - 0710	SMITHVILLE, OHIO	HUGHES 269A N8838F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL BUSINESS	STUDENT, AGE 34, 99 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BLATTER FIELD TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - MISCALCULATED FUEL CONSUMPTION MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR MISCELLANEOUS ACTS, CONDITIONS - DOWNWIND COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- 15K TAILWIND.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2093	6/22/68	NR.LOA,UT	BELL 47G3B1 N1357X	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 29, 2495 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING FACTOR WEATHER - HIGH DENSITY ALTITUDE WEATHER - UNFAVORABLE WIND CONDITIONS						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE TYPE OF WEATHER CONDITIONS VFR			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 50 TYPE OF FLIGHT PLAN NONE			
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 200 KIND OF CROP - FOREST-TREES GLOVES - USED CRASH HELMET - AVAILABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - DENSE WITH TREES MOUNTAINOUS ROLLING			KIND OF OPERATION - SPAYING FORESTS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 9400			
REMARKS- T/O FROM MT TOP, SETTLED INTO BUSH. HEAVILY LOADED, WIND CALM, 11000 FT DENSITY ALT.						
3-2094	6/23/68	GRAND LEDGE, MICH	BRANTLY 8-2B N2267U	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 62, 231 TOTAL HOURS, 130 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ABRAMS TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-ON LANDING			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR BLADES ROTORCRAFT - ROTOR ASSEMBLIES: BEARINGS MISCELLANEOUS ACTS, CONDITIONS - VIBRATION, EXCESSIVE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PROP/ENGINE VIBRATION						
REMARKS- BEARINGS IN CLEVIS ASSY FAILED DUE TO BRINELLING.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2095	6/24/68 TIME - 1535	LOUISVILLE, KY	HUGHES 269B N9465F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS POLICE PATROL	COMMERCIAL, FL. INSTR., AGE 25, 1610 TOTAL HOURS, 68 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BOWMAN FIELD TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: MASTER AND CONNECTING RODS PWR PLT - LOOSE ROD CAP BOLTS ON NO 4 ROD FAILED. MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- CRASHED IN CONGESTED AREA.						
3-2096	6/25/68 TIME - 0105	BORON, CALIF	BELL 47G381 N1110J DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL AIR TAXI-PASSG.	COMMERCIAL, FL. INSTR., AGE 35, 2000 TOTAL HOURS, 1000 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BORON TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: BEARINGS MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: TAIL ROTOR DRIVE SHAFT ASSEMBLY MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE PERSONNEL - PRODUCTION-DESIGN: OTHER EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- IMPROPERLY INSTALLED ROLLER BEARING. SNAP RING NOT INSTALLED DUE TO ERROR IN PARTS MANUAL.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2100	6/28/68 TIME - 0930	FORT COLLINS, COLO	BELL 476381 N73287 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC FIRE CTL ACTIVITIE	COMMERCIAL, AGE 24, 1400 TOTAL HOURS, 48 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT UNDERSHOOT ROLL OVER				PHASE OF OPERATION LANDING: FINAL APPROACH LANDING: LEVEL OFF/TOUCHDOWN	
	PROBABLE CAUSE PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING WEATHER - DOWNDRAFT, UPDRAFTS WEATHER - HIGH DENSITY ALTITUDE TERRAIN - ROUGH/UNEVEN WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED					
	SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 270 TYPE OF WEATHER CONDITIONS VFR				CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 50 WIND VELOCITY-KNOTS Z TYPE OF FLIGHT PLAN NONE	
	REMARKS- SETTLED SHORT WHILE ATTEMPTING TO LAND ON A MT LEDGE. ROLLED DOWN MT. DENS ALT 13000 FT.					
3-2101	6/28/68 TIME - 1045	MUSKEGON, MICH	HILLER UH-120 N10321 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, FL. INSTR., AGE 42, 2586 TOTAL HOURS, 0 IN TYPE, INSTRUMENT RATED.
	NAME OF AIRPORT - MUSKEGON COUNTY TYPE OF ACCIDENT HARD LANDING				PHASE OF OPERATION LANDING: POWER-ON LANDING	
	PROBABLE CAUSE PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR PILOT IN COMMAND - ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR BLADES MISCELLANEOUS ACTS, CONDITIONS - VIBRATION, EXCESSIVE					
	REMARKS- TOTAL ROTORCRAFT TIME 3HRS. VIBRATION DUE TO HEAVY BLADE FROM BEING IN STORAGE.					

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2105	6/30/68 TIME - 1430	LAKEVIEW, OHIO	BENSEN 87 N59361 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 46, 260 TOTAL HOURS, 13 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - VAN HORN TYPE OF ACCIDENT HARD LANDING PHASE OF OPERATION LANDING: POWER-ON LANDING PROBABLE CAUSE PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING PILOT IN COMMAND - MISJUDGED SPEED REMARKS- TURNED DOWNWIND, 20K WITH GUSTS, SETTLED TO GROUND DUE TO LACK OF AIRSPEED AND LIFT.						
3-2106	7/4/68 TIME - 1255	PARAMOUNT, CALIF	HUGHES 269B N9456F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS POLICE PATROL	COMMERCIAL, FL. INSTR., AGE 35, 2005 TOTAL HOURS, 1765 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - COMPTON TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING PROBABLE CAUSE PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION POWERPLANT - LUBRICATING SYSTEM: MAGNETIC PLUGS MISCELLANEOUS ACTS, CONDITIONS - MISSING MISCELLANEOUS ACTS, CONDITIONS - WRONG PART MISCELLANEOUS ACTS, CONDITIONS - OIL EXHAUSTION-ENGINE LUBRICATION SYSTEM COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- CRASHED ON 45 DEG RIVER BANK. PIPER PLUG CAME OUT DUE TO LACK OF SAFETY WIRE/NOT TIGHTENED.						
3-2107	7/8/68 TIME - 1550	BROOMFIELD, COLO	HUGHES 269A N8892F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 25, 2045 TOTAL HOURS, 145 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - JEFFERSON COUNTY TYPE OF ACCIDENT GROUND-WATER LOOP-SWERVE ROLL OVER PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: POWER-ON LANDING PROBABLE CAUSE DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT TERRAIN - OTHER REMARKS- STUDENT LOST VERTICAL, LATERAL, DIRECTIONAL CONTROL FROM 3FT HOVER. ACFT TURNED OVER INTO DITCH.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2108	7/10/68 TIME - 1700	OCEAN DR BEACH, NC	BELL 4701 N4253A DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 1	COMMERCIAL OTHER	COMMERCIAL, FL. INSTR., AGE 50, 7000 TOTAL HOURS, 2000 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MYRTLE BEACH TYPE OF ACCIDENT HARD LANDING ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPROPER COMPENSATION FOR WIND CONDITIONS WEATHER - UNFAVORABLE WIND CONDITIONS WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 135 TYPE OF WEATHER CONDITIONS VFR REMARKS- SIGHT-SEEING RIDES, 3FT AERIAL TAXI IN 25K WINDS WITH GUSTS.						
				PHASE OF OPERATION LANDING: LEVEL OFF/TOUCHDOWN LANDING: LEVEL OFF/TOUCHDOWN		
				CEILING AT ACCIDENT SITE UNKNOWN/NOT REPORTED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 93 WIND VELOCITY-KNOTS 25 TYPE OF FLIGHT PLAN NONE		
3-2136	7/1/68 TIME - 1315	CAPE CANAVERL, FLA	BELL 47G N4018A DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL MAPPING/PHOTO	COMMERCIAL, AGE 44, 370 TOTAL HOURS, 26 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - CAPE CANAVERAL TYPE OF ACCIDENT GROUND-WATER LOOP-SWERVE ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
				PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: LEVEL OFF/TOUCHDOWN		
3-2184	5/20/68 TIME - 0830	SAUGUS, CALIF	HUGHES 269A N8931F DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 25, 420 TOTAL HOURS, 175 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT REMARKS- HOVERING AUTOROTATIVE LDG PRACTICE.						
				PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING		

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2188	5/27/68 TIME - 0530	ARROYO GRANDE,CAL	HILLER 12B N5301V DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 41, 6000 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE			
PROBABLE CAUSE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: TAIL ROTOR DRIVE SHAFT ASSEMBLY MISCELLANEOUS ACTS,CONDITIONS - FATIGUE FRACTURE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- FATIGUE FAILURE OF CENTERING PIN,P/N24527-1,OF CARDAN JOINT,SUCCESSFUL AUTOROTATIVE LDG.						
3-2208	6/29/68 TIME - 1005	PANAMA CITY,FLA	BELL 47G-2 N5185B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL OTHER	COMMERCIAL, FL.INSTR., AGE 52, 5000 TOTAL HOURS, 1000 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - EDGEWATER BEACH TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR HARD LANDING			PHASE OF OPERATION TAKEOFF: VERTICAL LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIPT. PROP/ENGINE VIBRATION REMARKS- LOCAL SIGHTSEEING FLTS.FAILED T/R BLADE NOT RECOVERED.						
3-2210	7/1/68 TIME - 0820	MANNING,SC	HUGHES 269A N8917F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 27, 2053 TOTAL HOURS, 240 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT STALL: MUSH			PHASE OF OPERATION IN FLIGHT: SWATH RUN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 200 KIND OF CROP - COTTON PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 100						
			KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL,FLAT SWATH RUN-HOW FLOWN - DOWNWIND			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2223	8/12/68 TIME - 1015	LOS ANGELES,CALIF	BELL 47J-2 N8432E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 45, 16208 TOTAL HOURS, 3827 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LOS ANGELES						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: OBJECT			TAXI: AERIAL TAXI TO/FROM LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - MISJUDGED CLEARANCE						
REMARKS- MAIN ROTOR BLADES STRUCK RETAINING WALL.						
3-2273	7/6/68 TIME - 1715	MONROEVILLE,PA	BRANTLY B-2B N5948X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 31, 800 TOTAL HOURS, 250 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MONROEVILLE						
TYPE OF ACCIDENT			PHASE OF OPERATION			
AIRFRAME FAILURE: IN FLIGHT			IN FLIGHT: AUTOROTATIVE DESCENT			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			IN FLIGHT: AUTOROTATIVE DESCENT			
PROBABLE CAUSE						
MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS						
AIRFRAME - FLIGHT CONTROL SURFACES: HORIZONTAL STABILIZER, ATTACHMENTS						
MISCELLANEOUS ACTS,CONDITIONS - FATIGUE FRACTURE						
ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES						
MISCELLANEOUS ACTS,CONDITIONS - OVERLOAD FAILURE						
REMARKS- PRIVATE HELICOPTER RATING.RT STABILIZER SPAR TUBE FAILED.STABILIZER BROKE OFF STRUCK T/R.SAFE LDG.						
3-2300	8/15/68 TIME - 0800	NR,SUSITNA LODG,ALAS	BELL 47G3B1 N68645 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 1 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., AGE 40, 3600 TOTAL HOURS, 400 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING						
WEATHER - UNFAVORABLE WIND CONDITIONS						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			6500			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			50			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
270			Z			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
FIRE AFTER IMPACT						
REMARKS- ATTEMPTED LDG NEAR GLACIER,CAUGHT IN STRONG GLACIER WINDS,TURBULENCE,DOWNDRAFTS.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2335	2/25/68 TIME - 1810	SAN ANTONIO, TEX	BELL-CARSON C-4 N614X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 3	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 36, 2455 TOTAL HOURS, 76 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SAN ANTONIO INTL TYPE OF ACCIDENT AIRFRAME FAILURE: IN FLIGHT COLLISION WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE ROTORCRAFT - MISCELLANEOUS UNITS AND ASSEMBLIES: TAIL BOOMS/PYLONS/CONES MISCELLANEOUS ACTS, CONDITIONS - CORRODED/CORROSION PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION FIRE AFTER IMPACT REMARKS- STRUCTURAL FAILURE OF TUBING, DUE TO INTERNAL RUST. ACFT A CONVERSION, UNKNOWN TOTAL TIME ON AIRFRAME PHASE OF OPERATION IN FLIGHT: HOVERING IN FLIGHT: UNCONTROLLED DESCENT						
3-2337	5/10/68 TIME - 0745	MILWAUKEE, WIS	ENSTROM F-28 N4462 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 31, 7500 TOTAL HOURS, 132 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GENERAL MITCHELL TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- T/R ASSEMBLY SEPARATED DUE TO ROTOR SPINDLE FAILURE. LANDED WITH NO FURTHER DAMAGE.						
3-2338	6/25/68 TIME - 1510	NEW YORK CITY, NY	BRANTLY 305 N2223U DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 5	COMMERCIAL OTHER	COMMERCIAL, AGE 24, 1695 TOTAL HOURS, 21 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MIDTOWN TYPE OF ACCIDENT MISCELLANEOUS COLLIDED WITH: OBJECT PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G. FACTOR MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER REMARKS- SIGHTSEEING FLTS. APPROX 45LB OVERWEIGHT, CG FORWARD OF LIMIT, SETTLED, STRUCK EDGE PIER, SANK IN RIVER PHASE OF OPERATION TAKEOFF: INITIAL CLIMB TAKEOFF: INITIAL CLIMB						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2339	6/30/68 TIME - 1145	RALEIGH, NC	BENSEN HATCH N1253 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 39, 17 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - RALEIGH-DURHAM						
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION LANDING: ROLL			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
3-2340	7/1/68 TIME - 1730	GENEVA, FLA	BENSEN H-1 N3324 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 41, 167 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - OSCEOLA						
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: ROLL			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: PISTON, PISTON RINGS AIRPORTS/AIRWAYS/FACILITIES - AIRPORT CONDITIONS: OTHER COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP. REMARKS- NO 4 PISTON SEIZED IN CYL, CAUSE UNDETERMINED. LANDED IN ROUGH TERRAIN OFF RNMW AT ABANDONED ARPT.						
3-2341	7/6/68 TIME - 1200	WIS. DELLS, WIS	BELL 47G-2 N2866B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL OTHER	COMMERCIAL, FL. INSTR., AGE 26, 1593 TOTAL HOURS, 446 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - MC BOYLE DELLS						
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: HOVERING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G. MISCELLANEOUS ACTS, CONDITIONS - LATERAL IMBALANCE FACTOR MISCELLANEOUS ACTS, CONDITIONS - DOWNWIND REMARKS- LOCAL SIGHTSEEING FLTS. ATTEMPTED DOWNWIND FLT, 10-17K, CABIN WEIGHT 60 LBS OVER LIMIT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2342	7/13/68 TIME - 0845	GREENVILLE,CALIF	HILLER UH-12E N90476 DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 40, 7940 TOTAL HOURS, 1500 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: SWATH RUN LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - FOREST-TREES GLOVES - USED CRASH HELMET - AVAILABLE-USED TERRAIN-TYPE - MOUNTAINOUS FIRE AFTER IMPACT						
			KIND OF OPERATION - SPAYING FORESTS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GOGGLES - NOT USED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 8000			
3-2343	7/13/68 TIME - 0915	SAN CARLOS,CALIF	HUGHES 269A N8902F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 29, 189 TOTAL HOURS, 34 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SAN CARLOS TYPE OF ACCIDENT HARD LANDING GEAR COLLAPSED			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR MISCELLANEOUS ACTS,CONDITIONS - OVERLOAD FAILURE REMARKS- PRACTICING AUTOROTATIVE LG.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2344	7/14/68 TIME - 0730	LAKEVIEW, MICH	BELL 47G N73872 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 26, 1542 TOTAL HOURS, 4 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: CROP			PHASE OF OPERATION IN FLIGHT: SWATH RUN			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED			KIND OF OPERATION - SPAYING CROPS			
KIND OF CROP - POTATOES			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC			
PILOT'S SEAT BELT - FASTENED-PROPERLY			GLOVES - USED			
GOGGLES - NOT USED			CRASH HELMET - AVAILABLE-USED			
COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED			
TANK/HOPPER-LOCATION - AFT OF PILOT			TERRAIN-TYPE - LEVEL, FLAT			
ELEVATION-AREA BEING TREATED- FEET - 850			SWATH RUN-HOW FLOWN - UPWIND			
REMARKS- SKIDS ENTANGLED IN POTATO VINES.						
3-2360	7/25/68 TIME - 1223	ONAWA, IOWA	HUGHES 269A N8841F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 30, 1450 TOTAL HOURS, 89 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ONAWA			PHASE OF OPERATION			
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			LANDING: FINAL APPROACH LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
3-2365	6/21/68 TIME - 1915	CROCKER, MO	BELL 47G-2A N8484E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 38, 1541 TOTAL HOURS, 1260 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: SWATH RUN			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 1000			KIND OF OPERATION - DEFOLIATION (LIQUID)			
TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC			TANK/HOPPER-LOCATION - AFT OF PILOT			
ELEVATION-AREA BEING TREATED- FEET - 800			SWATH RUN-HOW FLOWN - WIND CALM			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2366	6/23/68 TIME - 0630	GUCKEEN, MINN	BELL 47G-2 N4735S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 28, 1500 TOTAL HOURS, 202 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 100 KIND OF CROP - CORN PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 1001			KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT			
3-2372	7/25/68 TIME - 1130	BUFFALO, WYO	HUGHES 269B N9460F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 56, 1000 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. WEATHER - HIGH DENSITY ALTITUDE WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE TYPE OF WEATHER CONDITIONS VFR REMARKS- DENSITY ALT 11500 FT. SETTLED ON T/O.			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 70 TYPE OF FLIGHT PLAN NONE			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2379	6/25/68 TIME - 1115	GARDEN CITY,KANS	BELL 47G N163B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL.INSTR., AGE 34, 7348 TCTAL HOURS, 684 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: RETURN TO STRIP LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS,CONDITIONS - OIL EXHAUSTION-ENGINE LUBRICATION SYSTEM PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
3-2390	6/4/68 TIME - 1530	RICHMOND,ILL	HUGHES 269A N8873F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 43, 4000 TOTAL HOURS, 1875 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS,CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 675 KIND OF CROP - PEAS PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 875 PROCEDURE TURNAROUND - THIRD 1/3 OF TURN KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL,FLAT SWATH RUN-HOW FLOWN - CROSSWIND						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2419	7/21/68 TIME - 1400	CULVER CITY,CALIF	HUGHES 269A N8923F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	COMMERCIAL, AGE 28, 410 TOTAL HOURS, 18 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - HUGHES						
TYPE OF ACCIDENT			PHASE OF OPERATION			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
ROLL OVER			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL						
FACTOR						
PERSONNEL - FLIGHT INSTRUCTOR: INADEQUATE TRAINING OF STUDENT						
REMARKS- IMPROPERLY EXECUTED 3FT HOVERING AUTOROTATION.LACKED KNOWLEDGE OF PROPER TECHNIQUE.						
3-2420	7/22/68 TIME - 1000	LAZBUDDIE,TEX	HUGHES 269B N9452F DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 24, 1300 TOTAL HOURS, ALL IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: PROCEDURE TURNAROUND			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - ENGINE STRUCTURE: MASTER AND CONNECTING RODS						
MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 500			KIND OF OPERATION - SPAYING CROPS			
KIND OF CROP - GRAIN FIELDS			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC			
PILOT'S SEAT BELT - FASTENED-PROPERLY			GLOVES - NOT USED			
GOGGLES - NOT USED			CRASH HELMET - AVAIALABLE-NOT USED			
COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED			
TANK/HOPPER-LOCATION - SIDES			TERRAIN-TYPE - LEVEL,FLAT			
ELEVATION-AREA BEING TREATED-FEET - 3800			SWATH RUN-HOW FLOWN - CROSSWIND			
PROCEDURE TURNAROUND - THIRD 1/3 OF TURN						
REMARKS- CONNECTING ROD,NO 4 CYL.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2477	6/25/68 TIME - 0630	KING CITY, MO	BELL 47G-5 N8599F DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 31, 1200 TOTAL HOURS, 240 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: PULLUP FROM SWATH RUN			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 120 KIND OF CROP - OTHER PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - AFT OF PILOT ELEVATION-AREA BEING TREATED- FEET - 1100 REMARKS- WEED/BRUSH CONTROL.			KIND OF OPERATION - DEFOLIATION (LIQUID) TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - NOT AVAILABLE CRASH BAR - NOT INSTALLED TERRAIN-TYPE - ROLLING SWATH RUN-HOW FLOWN - CROSSWIND			
3-2501	7/26/68 TIME - 0850	MARINA DEL RAY, CA	HUGHES 269A N8812F DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 30, 770 TOTAL HOURS, 546 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - HUGHES TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS DUAL STUDENT - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT REMARKS- INSTR FAILED TO ASSURE ROTOR RPM WAS MAINTAINED DURING PRACTICE AUTOROTATION.						
3-2502	7/26/68 TIME - 1447	LEESBURG, VA	BENSEN BOWLES N2090 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 41, 2 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: TREES			PHASE OF OPERATION UNKNOWN/NOT REPORTED			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED FACTOR PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL FIRE AFTER IMPACT						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2596	8/1/68 TIME - 0445	CENTERVILLE,CALIF	HILLER UH-12B N5301V DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 42, 6107 TOTAL HOURS, 5607 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - AG STRIP TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: VALVE ASSEMBLIES MISCELLANEOUS - FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR TERRAIN - WET,SOFT GROUND PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 5000 KIND OF CROP - CORN GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL,FLAT SWATH RUN-HOW FLOWN - WIND CALM REMARKS- CARB HEAT AIR INTAKE GATES PN761853 FAILED.PARTICLES ENTERED ENG,BLOCKED INTAKE VALVE CLOSURE.						
PHASE OF OPERATION IN FLIGHT: EN ROUTE TO TREAT CROP LANDING: POWER-OFF AUTOROTATIVE LANDING						
3-2616	7/30/68 TIME - 0800	NEWPORT,PA	BELL 47G-4 N1165W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL.INSTR., AGE 35, 2000 TOTAL HOURS, 1000 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 300 KIND OF CROP - OTHER PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES SWATH RUN-HOW FLOWN - WIND CALM REMARKS- DEPARTED TEMPORARY HELISPOT.DISPENSING BRUSH KILLER CHEMICAL.						
PHASE OF OPERATION TAKEOFF: INITIAL CLIMB						
KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 1000						
KIND OF OPERATION - DEFOLIATION (LIQUID) TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - ROLLING						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2634	8/1/68 TIME - 1015	INTERIOR, S DAK	BELL 47G-2 N2813B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL MAPPING/PHOTO	COMMERCIAL, FL. INSTR., AGE 28, 814 TOTAL HOURS, 222 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
REMARKS- PLT FAILED TO MAINTAIN CONTROL OF ACFT IN HOVER.						
3-2658	8/3/68 TIME - 0640	N. TONAWANDA, NY	HUGHES 269A N8759F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 22, 526 TOTAL HOURS, 200 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: BEARINGS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- BEARINGS, PN5050-3, IN BELT DRIVE IDLER PULLEY SEIZED, CAUSED BELTS TO COME LOOSE AND LOSS OF ENG RPM						
3-2729	8/4/68 TIME - 1800	TURNERS FALL, MASS	BENSEN B-8M N8200 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 17, 12 TOTAL HOURS, 5 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TURNERS FALLS TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED						
REMARKS- FIRST ENG POWERED FLT. DOCTOR STATED PLT WAS A SEVERE MYOPIC CASE. GLASSES WERE NOT FOUND.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2730	8/4/68 TIME - 0830	DUBOIS,WYO	BELL 47G3B1 N8471E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 23, 2250 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: OBJECT			LANDING: FINAL APPROACH			
COLLISON WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
PILOT IN COMMAND - EXERCISED POOR JUDGMENT						
WEATHER - DOWNDRAFT,UPDRAFTS						
WEATHER - UNFAVORABLE WIND CONDITIONS						
FACTOR						
WEATHER - HIGH DENSITY ALTITUDE						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION			CEILING AT ACCIDENT SITE			
CLEAR			UNLIMITED			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			75			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
315			30			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- ATTEMPTED LDG ON TOP OF MT.SETTLED,T/R STRUCK ROCK.WIND 30K,GUSTING.DENSITY ALT 14500 FT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2734	8/7/68 TIME - 2030	OROVADA, NEV	KAMAN K-600 N11119 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 56, 6000 TOTAL HOURS, 84 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: CONTROLLED			TAKEOFF: INITIAL CLIMB			
ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
WEATHER - SUDDEN WINDSHIFT						
FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - DOWNWIND						
TERRAIN - ROUGH/UNEVEN						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION						
UNKNOWN/NOT REPORTED						
VISIBILITY AT ACCIDENT SITE						
5 OR OVER						
OBSTRUCTIONS TO VISION AT ACCIDENT SITE						
NONE						
WIND DIRECTION-DEGREES						
150						
TYPE OF WEATHER CONDITIONS						
VFR						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 5000						
KIND OF CROP - GRAIN FIELDS						
PILOT'S SEAT BELT - FASTENED-PROPERLY						
GOGGLES - NOT USED						
COCKPIT CRASHPAD - NOT INSTALLED						
TANK/HOPPER-LOCATION - SIDES						
ELEVATION-AREA BEING TREATED- FEET - 4400						
REMARKS- ACFT SETTLED. TAIL WIND OF 15 KTS.						
CEILING AT ACCIDENT SITE						
8000						
PRECIPITATION AT ACCIDENT SITE						
NONE						
TEMPERATURE-F						
70						
WIND VELOCITY-KNOTS						
15						
TYPE OF FLIGHT PLAN						
NONE						
KIND OF OPERATION - SPAYING CROPS						
TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC						
GLOVES - USED						
CRASH HELMET - AVAILABLE-USED						
CRASH BAR - NOT INSTALLED						
TERRAIN-TYPE - LEVEL, FLAT						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2737	8/7/68 TIME - 0815	KEYSTONE, S DAK	BELL 47G-2 N5163B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL OTHER	COMMERCIAL, AGE 29, 1450 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - KEYSTONE HELIPORT TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: MASTER AND CONNECTING RODS MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE POWERPLANT - LUBRICATING SYSTEM: FILTERS, SCREEN MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED MISCELLANEOUS ACTS, CONDITIONS - OIL STARVATION PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL) PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- LOCAL SIGHTSEEING FLT. OIL SCREEN INSTALLED UPSIDE DOWN, COLLAPSED. NOS 1,3 RODS BROKE-LACK OF OIL.						
3-2742	8/11/68 TIME - 1620	GRAND ISLE, LA	SIKORSKY S-62A N59224 DAMAGE-SUBSTANTIAL	CR- 0 0 3 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, AGE 31, 1675 TOTAL HOURS, 273 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FREEPORT HELIPORT TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE ROTORCRAFT - FLIGHT CONTROL SYSTEMS: CYCLIC PITCH CONTROL SYSTEM SYSTEMS - FLIGHT CONTROL SYSTEMS: FLIGHT CONTROL BOOST SYSTEMS, HYDRAULIC MISCELLANEOUS ACTS, CONDITIONS - STUCK PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL) REMARKS- CYCLIC STUCK IN FULL AFT POSITION DUE TO IMPROPER ADJUSTMENT OF AUXILIARY SERVO PILOT VALVE.						
3-2749	8/12/68 TIME - 1205	SAN DIEGO, CALIF	HUGHES 269A N8899F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL OTHER	COMMERCIAL, AGE 47, 3695 TOTAL HOURS, 44 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION DITCHING PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS FACTOR MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON WATER REMARKS- LOCAL SIGHTSEEING FLT. SANK OFF SHORE, MISSION BAY						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2750	8/13/68 TIME - 1045	SCOTTSDALE, ARIZ	BELL 47G-2A N2889B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 34, 1570 TOTAL HOURS, 158 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: EN ROUTE TO TREAT CROP LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - WATER IN FUEL PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - COTTON PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 1250						
			KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT SWATH RUN-HOW FLOWN - CROSSWIND			
3-2807	8/26/68 TIME - 0600	GLENCOE, MINN	BELL 47G-5 N787CS DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 32, 4095 TOTAL HOURS, 3525 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS PROPELLER/ROTOR FAILURE: TAIL ROTOR			PHASE OF OPERATION IN FLIGHT: DESCENDING IN FLIGHT: DESCENDING			
PROBABLE CAUSE MISCELLANEOUS - FOREIGN OBJECT DAMAGE MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: TAIL ROTOR DRIVE SHAFT ASSEMBLY FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND DIRECTIONAL CONTROL PROBLEM REMARKS- SPRAY BOOMS FLEXED UP STRIKING M/R. PIECES OF BROKEN BOOM SHEARED T/R SHAFT. PLT AUTOROTATED SAFELY.						
3-2814	7/27/68 TIME - 1445	PORT WASHNGTN, WIS	ENSTROM F-28A N4462 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 3	COMMERCIAL OTHER	ATR, FLIGHT INSTR., AGE 31, 7800 TOTAL HOURS, 200 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. REMARKS- LOCAL SIGHTSEEING FLT. PLT TOOK OFF OVER WATER, LOST ROTOR RPM, HAD TO RETURN TO SHORE TO LAND.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2894	6/1/68 TIME - 1600	NR. CAPE YAKATGA, ALAS	BELL 47G-2 N6751D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 39, 8050 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- SETTLED INTO BRUSH ON SLOPING TERRAIN.						
3-2897	6/16/68 TIME - 1330	HOMER, ALAS	BRANTLY B-2 N2124U DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 48, 111 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT DOOR/PANEL OPEN FIRE AFTER IMPACT REMARKS- LANDED TO CLOSE UNFASTENED COWL DOOR.						
3-2902	7/14/68 TIME - 0900	MINCHUMINA, ALAS	BELL 47G-2 N6711D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC FIRE CTL ACTIVITIE	COMMERCIAL, AGE 42, 7500 TOTAL HOURS, 3000 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB IN FLIGHT: AUTOROTATIVE DESCENT			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION TERRAIN - HIGH OBSTRUCTIONS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- AUTOROTATED INTO AREA COVERED WITH 25 FT HIGH TREES						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2903	7/18/68 TIME - 0915	NORTH CREEK, NY	SIKORSKY S-58B N887 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 27, 1030 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: OTHER IN FLIGHT: POWER-ON DESCENT			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
REMARKS- CARRYING SLING LOAD UP SIDE OF MT. NOT SUFFICIENT ALT TO RECOVER FROM SETTLING-WITH-POWER CONDITION						
3-2912	8/2/68 TIME - 1330	SALUDA, SC	HUGHES 269A N8935F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 32, 1463 TOTAL HOURS, 38 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
3-2935	8/10/68 TIME - 1230	ARABI, GA	HUGHES 269B N9438F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 46, 2539 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - OTHER PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 300 PROCEDURE TURNAROUND - THIRD 1/3 OF TURN REMARKS- SETTLED DUE TO LOSS OF LIFT. SPRAYING PEANUTS.						
KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - ROLLING SWATH RUN-HOW FLOWN - WIND CALM						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2978	7/24/68 TIME - 1145	COPE, SC	HUGHES 269A N8893F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 29, 5600 TOTAL HOURS, 1200 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
FACTOR INSTRUMENTS/EQUIPMENT AND ACCESSORIES - MISCELLANEOUS EQUIPMENT: OTHER MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G. MISCELLANEOUS ACTS, CONDITIONS - PILOT FATIGUE						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - COTTON PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES REMARKS- SETTLED PRIOR TO REACHING TRANSLATIONAL LIFT. FAULTY METER ON LOADER CAUSED 20 PCT SPRAY OVERLOAD.						
3-2979	8/2/68 TIME - 0600	NR.LK MINCHUMNA, ALAS	HILLER ACFT FH1100 N376FH DAMAGE-MINOR	CR- 0 0 1 PX- 0 1 2	COMMERCIAL ASSOC FIRE CTL ACTIVITIE	COMMERCIAL, FL. INSTR., AGE 35, 3865 TOTAL HOURS, 50 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR ACCIDENT TO PERSON			PHASE OF OPERATION STATIC: IDLING ROTORS			
PROBABLE CAUSE PERSONNEL - MISCELLANEOUS-PERSONNEL: PASSENGER REMARKS- PX EXITED ACFT, WALKED INTO ROTATING T/R BLADE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2980	8/8/68 TIME - 0815	PANOCH, CALIF	HUGHES 269A N8751F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 29, 3000 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR MISCELLANEOUS ACTS, CONDITIONS - PILOT FATIGUE						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - BEANS PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 1000 REMARKS- PLT ALLOWED ACFT TO SETTLE ONTO GRND ON ROLL-OUT FROM PROCEDURE TURNAROUND. HAD FLOWN 8 HRS.						
3-2998	8/24/68 TIME - 1800	SANTA ROSA, CALIF	BENSEN B-8 N1697 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 53, 3118 TOTAL HOURS, 119 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SANTA ROSA TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED						
3-3012	8/30/68 TIME - 0915	MT VERNON, IND	BENSEN B-8M N6120 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 48, 53 TOTAL HOURS, 11 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MT VERNON TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION MISCELLANEOUS			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: FINAL APPROACH			
PROBABLE CAUSE POWERPLANT - FUEL SYSTEM: CARBURETOR MISCELLANEOUS ACTS, CONDITIONS - IMPROPER ALIGNMENT/ADJUSTMENT MISCELLANEOUS ACTS, CONDITIONS - FUEL STARVATION PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL) PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- PLT ADJUSTED CARB. TOO LEAN MIXTURE CAUSED OVERHEATING. ACFT SETTLED, AIR SPEED INADEQUATE FOR LIFT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3013	8/26/68 TIME - 2200	FIREBAUGH, CALIF	BELL 47D1 N6323X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 30, 3100 TOTAL HOURS, 350 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: STARTING SWATH RUN LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION MISCELLANEOUS ACTS, CONDITIONS - FUEL STARVATION POWERPLANT - FUEL SYSTEM: CARBURETOR MISCELLANEOUS ACTS, CONDITIONS - LOOSE, PART/FITTING MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 400 KIND OF CROP - LETTUCE PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - UNKNOWN/NOT REPORTED ELEVATION-AREA BEING TREATED- FEET - 120 REMARKS- THROTTLE CONTROL ARM CAME OFF CARB. LOCK SCREW NOT TIGHTENED OR SAFETY WIRED.						
3-3014	8/21/68 TIME - 1130	UPLAND, CALIF	BELL 47D1 N320R DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 22, 48 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - CABLE TYPE OF ACCIDENT COLLIDED WITH: BUILDING(S) ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING FACTOR MISCELLANEOUS ACTS, CONDITIONS - CHECKLIST-FAILED TO USE REMARKS- FAILED TO RELEASE FRICTION LOCK ON CYCLIC CONTROL. ACFT DRIFTED, M/R BLADE STRUCK HANGAR DOOR.						
3-3015	8/30/68 TIME - 0615	PORTLAND, TEX	BELL 47G-4A N1313X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, AGE 31, 2173 TOTAL HOURS, 278 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT PROP/ENGINE VIBRATION REMARKS- LDG DUE TO ONE-TO-ONE VIBRATION. CAUSE FOR VIBRATION UNDETERMINED.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3033	9/2/68 TIME - 1330	MERIGOLD, MISS	BELL 47G N10175 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 43, 8500 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: CLEANUP SWATH			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED			KIND OF OPERATION - SPAYING CROPS			
KIND OF CROP - COTTON			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC			
PILOT'S SEAT BELT - FASTENED-PROPERLY			GLOVES - NOT USED			
GOGGLES - NOT USED			CRASH HELMET - AVAILABLE-USED			
COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED			
TANK/HOPPER-LOCATION - SIDES			TERRAIN-TYPE - LEVEL, FLAT			
ELEVATION-AREA BEING TREATED-FEET - 150			SWATH RUN-HOW FLOWN - WIND CALM			
FIRE AFTER IMPACT						
3-3045	8/14/68 TIME - 0945	BREEZY POINT, NY	HILLER FH1100 N375FH DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 42, 10800 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE ROTORCFT - ROTOR RPM LOST, CAUSE UNDETERMINED.						
FACTOR MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON WATER						
REMARKS- ACFT NOT RECOVERED.						
3-3046	8/28/68 TIME - 1700	INDUSTRY, CALIF	HUGHES 269A N8927F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	PRIVATE, AGE 33, 138 TOTAL HOURS, 42 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION						
AIRFRAME - FUSELAGE: FAIRINGS						
MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED						
MISCELLANEOUS ACTS, CONDITIONS - VIBRATION, EXCESSIVE						
PILOT IN COMMAND - IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
UNUSUAL NOISE						
DIRECTIONAL CONTROL PROBLEM						
REMARKS- LOWER CABIN FAIRING CAME LOOSE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3182	9/18/68 TIME - 1430	GAITHERSBURG, MD	BELL 47G N616X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	COMMERCIAL, AGE 50, 9700 TOTAL HOURS, 2045 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MONTGOMERY COUNTY						
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: WIRES/POLES			TAKEOFF: INITIAL CLIMB			
PROBABLE CAUSE						
PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
REMARKS- PLT DID NOT CLEAR THE TAKE-OFF AREA PRIOR TO LIFTOFF.						
3-3197	8/18/68 TIME - 1130	CUSTER, S DAK	BELL 47G3B1 N6214N DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 2	COMMERCIAL FIRE CONTROL	COMMERCIAL, AGE 38, 4873 TOTAL HOURS, 900 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
MISCELLANEOUS			IN FLIGHT: UNCONTROLLED DESCENT			
COLLIDED WITH: TREES			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR						
TERRAIN - HIGH OBSTRUCTIONS						
WEATHER - UNFAVORABLE WIND CONDITIONS						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			UNKNOWN/NOT REPORTED			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			70			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
270			20			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- ACFT SETTLED WHILE CIRCLING OVER FOREST FIRE. WINDS 20-32K. AIRSPEED/ALT TOO LOW FOR CONDITIONS.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3209	9/14/68 TIME - 1230	CAMDEN, SC	HUGHES 269A N8917F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 29, 2293 TOTAL HOURS, 485 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES HARD LANDING			PHASE OF OPERATION IN FLIGHT: STARTING SWATH RUN LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
FACTOR MISCELLANEOUS ACTS, CONDITIONS - SUNGLARE MISCELLANEOUS ACTS, CONDITIONS - WINDSHIELD, DIRTY, FOGGY, ETC. - RESTRICTED VISION						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 480 KIND OF CROP - CORN PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 290 REMARKS- BUBBLE DIRTY.						
KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT						
3-3241	10/1/68 TIME - 1415	ALEXANDRIA, VA	HUGHES 269B N9428F DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 41, 17 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WASH-VA TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED ROLL OVER			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PERSONNEL - FLIGHT INSTRUCTOR: INADEQUATE TRAINING OF STUDENT REMARKS- CRASHED FROM A HOVER, PLT SOLOED TOO SOON.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3264	9/1/68 TIME - 1315	COOLIDGE, ARIZ	BENSEN B-8M N1573 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 41, 100 TOTAL HOURS, 10 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - COOLIDGE-FLORENCE				
		TYPE OF ACCIDENT			PHASE OF OPERATION	
		PROPELLER/ROTOR FAILURE: MAIN ROTOR			TAKEOFF: INITIAL CLIMB	
		COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT	
		PROBABLE CAUSE				
		PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC.				
		MISCELLANEOUS ACTS, CONDITIONS - UNAPPROVED MODIFICATION				
		ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR HEAD ASSEMBLIES				
		MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY INSTALLED				
		MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE				
		FACTOR				
		MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT				
		REMARKS- DEVIATION MADE FROM BENSEN PLANS, BOLT USED TO ATTACH ROTOR HEAD TO TORQUE TUBE FAILED.				
3-3268	9/26/68 TIME - 1140	CHOWCHILLA, CALIF	BELL 47G3B1 N3377H DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 2	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 48, 17000 TOTAL HOURS, 900 IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT			PHASE OF OPERATION	
		COLLIDED WITH: WIRES/POLES			TAKEOFF: INITIAL CLIMB	
		PROBABLE CAUSE				
		PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS				
		FIRE AFTER IMPACT				
		REMARKS- PLT TOOK-OFF TO CONDUCT AERIAL SURVEY FOR FUTURE AERIAL APPLICATION.				
3-3280	1C/3/68 TIME - 0940	BELDEN, CALIF	HILLER FH1100 N585FH DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CONSTRUCTION	COMMERCIAL, FL. INSTR., AGE 52, 12000 TOTAL HOURS, 220 IN TYPE, NOT INSTRUMENT RATED.
		TYPE OF ACCIDENT			PHASE OF OPERATION	
		COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT	
		ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN	
		PROBABLE CAUSE				
		PERSONNEL - MISCELLANEOUS-PERSONNEL: OTHER				
		MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY SECURED				
		MISCELLANEOUS ACTS, CONDITIONS - CARGO SHIFTED				
		MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G.				
		FACTOR				
		PILOT IN COMMAND - FAILED TO USE OR INCORRECTLY USED MISC. EQUIPMENT				
		MISCELLANEOUS ACTS, CONDITIONS - IMPROPER EMERGENCY PROCEDURES				
		REMARKS- GRND RIGGERS DID NOT SECURE SLING LOAD PROPERLY. BAND BROKE, CARGO JACK KNIFED. LOAD NOT JETTISONED.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3281	10/6/68 TIME - 1245	PRATT, KANS	BENSEN B-8 N9144 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 43, 3 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PRATT TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - RPM-UNCONTROLLABLE-OVERSPEED PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- ENG ACCELERATED WITH THROTTLE CLOSED.						
3-3284	6/27/68 TIME - 0810	NR. LEWISTON, ID	BELL 47G3B1 N73284 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 47, 21021 TOTAL HOURS, 1547 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS FIRE AFTER IMPACT						
3-3289	10/12/68 TIME - 0930	WATKINS, COLO	REEVES TELLER N1685 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 40, 1 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - EAST COLFAX TYPE OF ACCIDENT GROUND-WATER LOOP-SWERVE COLLIDED WITH: DIRT BANK PROBABLE CAUSE PILOT IN COMMAND - FAILED TO MAINTAIN DIRECTIONAL CONTROL PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL						
3-3291	10/8/68 TIME - 0725	SANDSTON, VA	CARSON-BELL 47-G N617X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS OTHER	COMMERCIAL, AGE 45, 4754 TOTAL HOURS, 350 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BYRD TYPE OF ACCIDENT COLLIDED WITH: OBJECT PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE REMARKS- PLT ATTEMPTED TO PARK ACFT CLOSE TO HANGER. M/R STRUCK HANGAR DOOR SUPPORT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3319	10/5/68 TIME - 1400	HOUSTON, TEX	BELL 47H-1 N996B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL ADVERTISE	COMMERCIAL, FL. INSTR., AGE 34, 8217 TOTAL HOURS, 300 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR TERRAIN - WET, SOFT GROUND COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
3-3330	8/13/68 TIME - 1410	MILLER HOUSE, ALAS	BELL 47G-4 N3093G DAMAGE-DESTROYED	CR- 0 0 1 PX- 1 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 53, 10050 TOTAL HOURS, 3950 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE WEATHER - LOCAL WHIRLWIND WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 45 TYPE OF WEATHER CONDITIONS VFR FIRE AFTER IMPACT REMARKS- ON APPROACH TO A HOVER AT APPROX 9 FT, ACFT WAS CAUGHT IN A SEVERE WHIRLWIND.			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 65 WIND VELOCITY-KNOTS 10 TYPE OF FLIGHT PLAN NONE			
3-3331	8/18/68 TIME - 1105	NR. JUNEAU, ALAS	BRANTLY B-2B N5962X DAMAGE-NONE	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	COMMERCIAL, FL. INSTR., AGE 45, 5000 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR ACCIDENT TO PERSON			PHASE OF OPERATION STATIC: IDLING ROTORS			
PROBABLE CAUSE PILOT IN COMMAND - EXERCISED POOR JUDGMENT PILOT IN COMMAND - LEFT AIRCRAFT UNATTENDED, ENGINE RUNNING REMARKS- PLT DEPLANED, WAS STRUCK BY MAIN ROTOR BLADE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3339	7/26/68 TIME - 1005	LONG BEACH, CALIF	HUGHES 269B N9459F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS TEST	COMMERCIAL, FL. INSTR., AGE 37, 1600 TOTAL HOURS, 91 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LONG BEACH TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- MAINTENANCE FLT CHECK, ROTOR RPM BEING CHECKED THROUGH AUTOROTATION.						
PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING						
3-3392	9/30/68 TIME - 1330	WHITTIER, CALIF	HUGHES 269B N9521F DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0	MISCELLANEOUS POLICE PATROL	COMMERCIAL, AGE 43, 2394 TOTAL HOURS, 1029 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
PHASE OF OPERATION IN FLIGHT: LOW PASS						
3-3393	11/3/68 TIME - 1340	HAMLIN, W VA	SUD SE3130 N504 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 2 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 48, 8500 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - HAMLIN-MAIN TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS - EVASIVE MANEUVER TO AVOID COLLISION PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS REMARKS- LDG IN FOOTBALL FIELD, APPROX 50 FT ALT BACKED UP TO AVOID WIRES, STRUCK POLE, FAILED TO CHECK AREA.						
PHASE OF OPERATION LANDING: OTHER						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3436	7/29/68	NR. ASPEN, COLO	BELL 47G382	CR- 0 1 0	COMMERCIAL	COMMERCIAL, AGE 42, 5408
	TIME - 1540		N4274G	PX- 0 0 2	AIR TAXI-PASSG	TOTAL HOURS, 1964 IN
			DAMAGE-SUBSTANTIAL			TYPE, NOT INSTRUMENT
						RATED.
		NAME OF AIRPORT - MIDWAY CREEK CAMP			PHASE OF OPERATION	
		TYPE OF ACCIDENT			IN FLIGHT: POWER-ON DESCENT	
		ENGINE FAILURE OR MALFUNCTION			LANDING: POWER-OFF AUTOROTATIVE LANDING	
		COLLIDED WITH: TREES				
		PROBABLE CAUSE				
		POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS				
		FACTOR				
		WEATHER - HIGH DENSITY ALTITUDE				
		TERRAIN - HIGH OBSTRUCTIONS				
		PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE				
		WEATHER BRIEFING - NO BRIEFING RECEIVED				
		WEATHER FORECAST - UNKNOWN/NOT REPORTED				
		EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPRT ON LAND				
		SKY CONDITION			CEILING AT ACCIDENT SITE	
		OVERCAST			14000	
		VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE	
		5 OR OVER			NONE	
		OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F	
		NONE			60	
		WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS	
		360			6	
		TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN	
		VFR			NONE	
		FIRE AFTER IMPACT				
		REMARKS- DENS ALT 14000 FT. ENG RPM DCR WHEN THROTTLE WAS INCREASED. SIMILAR PWR LOSS THIS ACFT 50 HRS BEFORE				
3-3439	8/28/68	CHULA VISTA, CALIF	HUGHES 269A	CR- 0 0 1	COMMERCIAL	COMMERCIAL, AGE 35, 1300
	TIME - 0715		N87C9F	PX- 0 0 0	ASSOC CROP CTL ACTIVITIE	TOTAL HOURS, 1150 IN
			DAMAGE-SUBSTANTIAL			TYPE, NOT INSTRUMENT
						RATED.
		NAME OF AIRPORT - CHULA FARMS RANCH			PHASE OF OPERATION	
		TYPE OF ACCIDENT			TAKEOFF: INITIAL CLIMB	
		COLLIDED WITH: FENCE, FENCEPOSTS				
		PROBABLE CAUSE				
		PILOT IN COMMAND - FAILED TO ABORT TAKEOFF				
		SPECIAL DATA				
		TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED			KIND OF OPERATION - SPAYING CROPS	
		KIND OF CROP - OTHER			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC	
		PILOT'S SEAT BELT - FASTENED-PROPERLY			GLOVES - USED	
		GOGGLES - NOT USED			CRASH HELMET - AVAILABLE-USED	
		COCKPIT CRASHPAD - NOT INSTALLED			CRASH BAR - NOT INSTALLED	
		TANK/HOPPER-LOCATION - SIDES			TERRAIN-TYPE - ROLLING	
		ELEVATION-AREA BEING TREATED- FEET - 650			SWATH RUN-HOW FLOWN - WIND CALM	
		REMARKS- SPRAYNG PEPPERS. ACFT LIFTED OFF, SETTLED, SLID CN GRND, LIFTED OFF AGAIN, HIT FENCE POST 4.5 FT HIGH.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3448	9/19/68 TIME - 1807	CAMP DENISON, OHIO	HUGHES 269A N893CF DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	AIRLINE TRANSPORT, AGE 42, 11000 TOTAL HOURS, 44 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS COLLISION WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: BEARINGS MISCELLANEOUS ACTS, CONDITIONS - LACK OF LUBRICATION-SPECIFIC PART, NOT SYSTEM MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: MAIN ROTOR DRIVE SHAFT MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION REMARKS- M/R THRST BEARNG, PN269A5050-51, DISINTEGRATED, RUST ON CUTTER RACE. M/R MAST BROKE ABOVE FLANGE ATCH PT						
3-3464	6/5/68 TIME - 0930	MINERAL, WASH	BELL 47G-2 N28C3B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL. INSTR., AGE 48, 13000 TOTAL HOURS, 2500 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MINERAL TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: SWATH RUN LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - IGNITION SYSTEM: MAGNETOES MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - FOREST-TREES GLOVES - NOT USED CRASH HELMET - AVAILABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - MOUNTAINOUS DENSE WITH TREES REMARKS- IMPULSE COUPLING ASSY PN 10-76232 ON LT MAG FAILED, LOOSE PART JAMMED GEAR TRAIN. SPRAYING FOREST.						
KIND OF OPERATION - SPAYING FORESTS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 800 SWATH RUN-HOW FLOWN - UPWIND						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3474	6/13/68 TIME - 1030	ALBANY, OREG	BRANTLY B-2 N5963X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	COMMERCIAL, FL. INSTR., AGE 27, 1400 TOTAL HOURS, 2 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ALBANY MUNI TYPE OF ACCIDENT HARD LANDING GEAR COLLAPSED PHASE OF OPERATION LANDING: ROLL-ON/RUN-ON LANDING: ROLL-ON/RUN-ON PROBABLE CAUSE PILOT IN COMMAND - IMPROPER RECOVERY FROM BOUNCED LANDING PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. FACTOR MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE REMARKS- LANDED ON SOD COVERED GRAVEL AREA ALONGSIDE RWY, BOUNCED, CAME DOWN ON HEELS OF SKIDS.						
3-3475	6/14/68 TIME - 1845	GRANDVIEW, WASH	BELL 47G-2 N366D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 34, 1140 TOTAL HOURS, 305 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT STALL: MUSH PHASE OF OPERATION IN FLIGHT: SURVEY FIELD/AREA PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - TOMATOES PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 750 PROCEDURE TURNAROUND - FIRST 1/3 OF TURN REMARKS- ACFT LOADED. SETTLED TO GRND DURING PROCEDURE TYPE TURNAROUND WHILE SURVEYING AREA TO BE SPRAYED.						
3-3482	6/23/68 TIME - 2200	MEDFORD, OREG	HUGHES 269A N8711F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 49, 1120 TOTAL HOURS, 420 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MEDFORD MUNI TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS FACTOR MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- LANDED IN PARTIALLY DRY CREEK BED.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3492	8/26/68 TIME - 1230	NR. AZUZA, CALIF	ALOUETTE III N17C3C DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL. INSTR., AGE 48, 4600 TOTAL HOURS, 51 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS COLLISON WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION IN FLIGHT: EN ROUTE TO TREAT CROP IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED FACTOR MISCELLANEOUS ACTS, CONDITIONS - JETTISONED LOAD						
REMARKS- SLING LOAD BUCKET BEGAN SWINGING, WAS DROPPED, ACFT ROTATED TO RT, FIRE COMING FROM ENG, FELL TO GRND.						
3-3567	9/14/68 TIME - 1645	BRIDGETON, NJ	BENSEN B8M N219C DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PRACTICE	NO CERTIFICATE, AGE 32, 0 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BUCKS TYPE OF ACCIDENT MISCELLANEOUS COLLISON WITH GROUND/WATER: UNCONTROLLED			PHASE OF OPERATION LANDING: FINAL APPROACH IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT						
REMARKS- PLTS 1ST SOLC. INVESTIGATION REVEALED ROTOR STRUCK RUDDER AND DISINTEGRATED DURING A PULLUP MANEUVR						
3-3577	8/11/68 TIME - 1645	NR. GARDEN VALLEY, ID	BELL 47G381 N73972 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 27, 2093 TOTAL HOURS, 211 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS TERRAIN - ROUGH/UNEVEN FIRE AFTER IMPACT						
REMARKS- USFS CONTRACT. HELIPAD IN WOODS ON MTN. IMMEDIATE LIFT OFF TO REPOSITION ACFT AFTER LDG. SKID SNAGGED						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3608	7/27/68 TIME - 1215	ROCKFORD, ID	HILLER UH-12E N4414 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 29, 1100 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT STALL: MUSH			PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS WEATHER - HIGH TEMPERATURE WEATHER - HIGH DENSITY ALTITUDE WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED						
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE TYPE OF WEATHER CONDITIONS VFR			CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 93 TYPE OF FLIGHT PLAN NONE			
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 33 KIND OF CROP - POTATOES PILOT'S SEAT BELT - FASTENED-PROPERLY CRASH HELMET - AVAILABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT SWATH RUN-HOW FLOWN - WIND CALM REMARKS- HELICOPTER SETTLED UNCONTROLLABLY. TEMP 93 DEG. DENS ALT 7600 FT. WIND CALM.						
3-3649	9/27/68 TIME - 1500	SONOITA, ARIZ	BELL 206A N4039G DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 4	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 46, 11015 TOTAL HOURS, 345 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FOREST SER HELIPT TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE POWERPLANT - COMPRESSOR ASSEMBLY: OTHER MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- USFS CONTRACT. COMPRESSOR, SN CAC 20064, PN 6852601 U, EXTENSIVE DAMAGE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3699	10/11/68 TIME - 1745	FINLEYVILLE, PA	HELICOM SAH100 N828Z DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	PRIVATE, AGE 57, 795 TOTAL HOURS, 38 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FINLEYVILLE						
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION LANDING: TRAFFIC PATTERN-CIRCLING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE ROTORCFT - M/R NOT BALANCED CORDWISE DURING ASSEMBLY MISCELLANEOUS ACTS, CONDITIONS - LATERAL IMBALANCE -FACTOR						
PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL						
EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP.T. LATERAL CONTROL PROBLEM						
REMARKS- PLT WAS TEACHING HIMSELF TO FLY HOME-BUILT ACFT.						
3-3723	10/5/68 TIME - 0710	HAINES CITY, FLA	BELL 47G2A1 N1158W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL. INSTR., AGE 51, 10000 TOTAL HOURS, 7000 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: EN ROUTE TO RELOADING AREA LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION TERRAIN - HIGH OBSTRUCTIONS PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - FRUIT ORCHARDS PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED- FEET - 135 REMARKS- CRASHED INTO A GROVE OF HIGH TREES.						
			KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - ROLLING SWATH RUN-HOW FLOWN - WIND CALM			
3-3729	10/15/68 TIME - 0800	WASHINGTON, DC	HUGHES 269B N9474F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS POLICE PATROL	COMMERCIAL, AGE 36, 7000 TOTAL HOURS, 3500 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WASHINGTON NATL						
TYPE OF ACCIDENT COLLIDED WITH: PARKED AIRCRAFT			PHASE OF OPERATION LANDING: POWER-ON LANDING			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE						
REMARKS- M/R OF HUGHES N9474F STRUCK M/R OF BELL N261MV, SUBST DAMAGE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3753	10/20/68 TIME - 1300	HARRISBURG,PA	BELL 47G-2 N6719D DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 42, 222 TOTAL HOURS, 56 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: CLIMB TO CRUISE			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR CBSTRUCTIONS						
REMARKS- STRUCK POWER LINES.						
3-3755	10/21/68 TIME - 1010	ANOKA,MINN	BENSEN B8-M N1802 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 48, 21 TOTAL HOURS, 3 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ANOKA COUNTY			PHASE OF OPERATION			
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			LANDING: TRAFFIC PATTERN-CIRCLING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: PISTON,PISTON RINGS MISCELLANEOUS ACTS,CONDITIONS - EXCESSIVE TEMPERATURE POWERPLANT - IGNITION SYSTEM: SPARK PLUG PERSONNEL - MAINTENANCE,SERVICING,INSPECTION: IMPROPER MAINTENANCE (OWNER PERSONNEL) PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIPT. REMARKS- NO 4 CYL PISTON SEIZED DUE TO PRE-IGNITION CAUSED BY SPARK PLUGS WITH IMPROPER HEAT RANGE FOR ENG.						
3-3836	11/10/68 TIME - 1145	GILBERTSVILLE,KY	BENSEN B8M N336Y DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 28, 57 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - KY DAM STATE PARK			PHASE OF OPERATION			
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER			IN FLIGHT: NORMAL CRUISE LANDING: ROLL			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: PISTON,PISTON RINGS MISCELLANEOUS ACTS,CONDITIONS - OVERHEATED MISCELLANEOUS ACTS,CONDITIONS - SCORED TERRAIN - WET,SOFT GROUND COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- PISTONS SCORED,ENG SEIZED.CAUSE OF HIGH ENG TEMP NOT DETERMINED.CRASHED ON MUDDY EDGE OF LAKE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3925	9/26/68	NR. ANACONDA, MONT	BELL 47G3B1 N73931 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC FIRE CTL ACTIVITIES	COMMERCIAL, AGE 46, 11225 TOTAL HOURS, 1100 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
3-3934	9/30/68	ELTOPIA, WASH	BELL 47G-4 N6786D DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 44, 14000 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: STARTING SWATH RUN			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
SPECIAL DATA						
TOTAL HOURS IN CROP CONTROL - 1600			KIND OF OPERATION - SPAYING FORESTS			
KIND OF CROP - SAGE			TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTXIC			
GLOVES - NOT USED			GOGGLES - NOT USED			
CRASH HELMET - AVAILABLE-NOT USED			COCKPIT CRASHPAD - NOT INSTALLED			
CRASH BAR - NOT INSTALLED			TANK/HOPPER-LOCATION - SIDES			
TERRAIN-TYPE - LEVEL, FLAT			ELEVATION-AREA BEING TREATED- FEET - 800			
SWATH RUN-HOW FLOWN - WIND CALM						
REMARKS- TOXICOLOGICAL TEST SHOWED PLT CHOLINESTERASE LEVEL NORMAL.						
3-3964	10/20/68	SEATTLE, WASH	BELL 206 N4046G DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	MISCELLANEOUS POLICE PATROL	COMMERCIAL, AGE 36, 700 TOTAL HOURS, 75 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
FACTOR MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
REMARKS- LOSS OF LATERAL CONTROL BY PLT DURING IMPROPER LIFT-OFF FROM WATER.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3971	10/29/68 TIME - 1245	RENTON, WASH	HUGHES 269A N8772F DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	ATR, FLIGHT INSTR., AGE 30, 1665 TOTAL HOURS, 197 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS						
DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CONTROLS						
DUAL STUDENT - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						
PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT						
REMARKS- PRACTISE AUTOROTATIVE LDG. LOST ROTOR RPM APPROX 400 FT AGL.						
3-3982	11/22/68 NR. TIME - 1000	ROANOKE, VA	BELL 47G-5 N12C1W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL POWER/PIPELINE	COMMERCIAL, FL. INSTR., AGE 28, 2459 TOTAL HOURS, 714 IN TYPE, NGT INSTRU- MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
MISCELLANEOUS			IN FLIGHT: NORMAL CRUISE			
PROPELLER/ROTOR FAILURE: TAIL ROTOR			IN FLIGHT: NORMAL CRUISE			
PROBABLE CAUSE						
PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
FACTOR						
WEATHER - DOWNDRAFT, UPDRAFTS						
WEATHER BRIEFING - BRIEFED BY FLIGHT SERVICE PERSONNEL, BY PHONE						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SUSPECTED OR KNOWN AIRCRAFT DAMAGE						
SKY CONDITION			CEILING AT ACCIDENT SITE			
CLEAR			UNLIMITED			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
5 OR OVER			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
NONE			52			
WIND DIRECTION-DEGREES			WIND VELOCITY-KNOTS			
230			15			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
VFR			NONE			
REMARKS- IN DOWNDRAFT, RECCORDER ON PX LAP THROWN THROUGH BUBBLE, HIT T/R. OBJECT NOT PROPERLY SECURED BY PLT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4055	12/8/68 TIME - 1245	SANTA PAULA,CALIF	BELL 47G N10712 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	COMMERCIAL, FL.INSTR., AGE 37, 10100 TOTAL HOURS, 5050 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
3-4101	9/28/68 TIME - 1300	MICKLETON,NJ	BENSEN 88M N8713R DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	NO CERTIFICATE, AGE 31, UNK/NR TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PEASLEE TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAXI: OTHER			
PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED FACTOR PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL REMARKS- TAXI PRACTICE.NO RECORD OF ANY PREVIOUS FLT EXPERIENCE.						
3-4104	10/1/68 TIME - 1715	MANDEVILLE,LA	SIKORSKY H-19G N1023 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 47, 11975 TOTAL HOURS, 1200 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR ROLL OVER			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: BEARINGS MISCELLANEOUS ACTS,CONDITIONS - FATIGUE FRACTURE TERRAIN - WET,SOFT GROUND REMARKS- T/R CONTROL ROD BEARING BROKE ALLOWED BLADES TO CONE.ONE BLADE STRUCK HAMBONE AND T/R SHAFT FAILED						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4167	11/24/68 TIME - 1500	IVYLAND, PA	BENSEN B8M N4791G DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	ATR, FLIGHT INSTR., AGE 28, 4964 TOTAL HOURS, 85 IN TYPE, INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: MAIN ROTOR COLLISION WITH GROUND/WATER: UNCONTROLLED			TAKOFF: INITIAL CLIMB IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR BLADES						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
MISCELLANEOUS ACTS, CONDITIONS - VIBRATION, EXCESSIVE FACTOR						
MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT						
REMARKS- 19 INCHES OF ROTOR BLADE BROKE OFF.						
3-4202	7/27/68 TIME - 0830	MIDLAND, OREG	BENSEN B-8M NNONE DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 30, 95 TOTAL HOURS, 0 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
MISCELLANEOUS - UNDETERMINED						
REMARKS- CRASHED IN INVERTED POSITION FROM 150 FT.						
3-4203	10/26/68 TIME - 1120	CHICAGO, ILL	BELL 47G-4A N4032G DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	MISCELLANEOUS POLICE PATROL	PRIVATE, AGE 37, 136 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
PROPELLER/ROTOR FAILURE: TAIL ROTOR HARD LANDING			IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES						
MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- FAILURE OF T/R BLADE, SERIAL NUMBER A3-38236.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4205	11/2/68 TIME - 1050	HANAPEPE, HAWAII	BELL 206A N6255N DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 4	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 25, 2071 TOTAL HOURS, 276 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PORT ALLEN						
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: NORMAL CRUISE			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - TURBINE ASSEMBLY: BEARING, SHAFT						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
POWERPLANT - LUBRICATING SYSTEM: PUMP, SCAVENGE						
MISCELLANEOUS ACTS, CONDITIONS - OIL STARVATION						
TERRAIN - ROUGH/UNEVEN						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- NO 7 BEARING SEPARATOR FAILED, PIECES WENT INTO SCAVENGE PUMP, PUMP FAILED, ENG SEIZED.						
3-4207	11/18/68 TIME - 1335	CTY OF INDUSY, CAL	BELL 47G-5 N8586F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 51, 1071 TOTAL HOURS, 215 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLIDED WITH: AUTOMOBILE			LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
PERSONNEL - MISCELLANEOUS-PERSONNEL: GROUND SIGNALMAN						
REMARKS- DURING LANDING IN PARKING LOT PLT FAILED TO SEE TRUCK. SIGNALMAN FAILED TO DIRECT PLT PROPERLY.						
3-4208	11/9/68 TIME - 1500	SAN CARLOS, CALIF	HUGHES 269B N9349F DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 28, 396 TOTAL HOURS, 163 IN TYPE, NCT INSTRU- MENT RATED.
NAME OF AIRPORT - SAN CARLOS						
TYPE OF ACCIDENT			PHASE OF OPERATION			
HARD LANDING			LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4219	11/4/68 TIME - 0913	NR.KENAI,ALAS	BELL 47G-4A N1396X DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 47, 4739 TOTAL HOURS, 2570 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: OBJECT ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING FACTOR MISCELLANEOUS ACTS,CONDITIONS - ALCHOLIC IMPAIRMENT OF EFFICIENCY AND JUDGMENT REMARKS- IMPROPER LDG ON MT LEDGE,T/R NOT OVER EDGE,T/R HIT BUSH.ROLLED DOWN MT.BLOOD ALCOHOL 94 MG PCT.						
3-4249	11/23/68 TIME - 1420	TREMONTON,UT	HUGHES 269B N9365F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	COMMERCIAL, AGE 19, 184 TOTAL HOURS, 139 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: MAIN ROTOR DRIVE SHAFT MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE PERSONNEL - PRODUCTION-DESIGN: SUBSTANDARD QUALITY CONTROL PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- AIRWORTHINESS DIRECTIVE 68-20-3 NOT COMPLIED WITH DUE TO IMPROPER P/N ON DRIVE SHAFT.						
3-4257	9/25/68 TIME - 1430	KANSAS CITY,KANS	HUGHES 269B N9325F DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PRACTICE	ATR,FLIGHT INSTR., AGE 46, 7000 TOTAL HOURS, 35 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FAIRFAX TYPE OF ACCIDENT MISCELLANEOUS			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- M/R FLEXED DOWN SEVERED T/R BOOM.PLT FAILED TO KEEP ACFT LIGHT ON SKIDS AS FORWARD SPEED WAS LCST.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4263	10/27/68 TIME - 1430	BROOKSVILLE, FLA	CARVER COPTER N54055 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 37, 129 TOTAL HOURS, 40 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BROOKVILLE TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION TERRAIN - HIGH OBSTRUCTIONS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: FINAL APPROACH						
3-4271	12/3/68 TIME - 1045	BARROW, ALAS	BELL 47J-2 N73960 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS SEARCH AND RESCUE	COMMERCIAL, AGE 25, 1213 TOTAL HOURS, 36 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WILEY POST TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS - FOREIGN OBJECT DAMAGE ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP. DIRECTIONAL CONTROL PROBLEM REMARKS- FABRIC M/R BLADE COVER PICKED UP BY M/R THROWN INTO T/R. PLT FAILED TO CLEAR AREA OR SECURE COVER. PHASE OF OPERATION TAXI: AERIAL TAXI TO TAKEOFF						
3-4273	12/14/68 TIME - 0800	ODONNELL, TEX	HUGHES 269A N8926F DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 29, 152 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- PLT WAS ATTEMPTING CLIMBING TURN AT 50 FT AGL. PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4274	12/17/68 TIME - 1100	COVINGTON, LA	SIKORSKY H-19G N1029 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 48, 12300 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION TAKEOFF: INITIAL CLIMB LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: OTHER MISCELLANEOUS ACTS, CONDITIONS - SHEARED PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- SHEARED DRIVE BETWEEN ACCESSORY SECTION AND CRANKSHAFT.						
3-4281	5/11/68 TIME - 0730	JACKSON, MONT	BELL 47G3B1 N792GS DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	NONCOMMERCIAL WILD LIFE SURVEY	COMMERCIAL, FL. INSTR., AGE 25, 5500 TOTAL HOURS, 368 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: CLIMB TO CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: MASTER AND CONNECTING RODS MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE TERRAIN - HIGH VEGETATION COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- CONNECTING ROD CAP BOLT FAILED IN NO 3 CYL.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4360	8/5/68 TIME - 1115	SIPESVILLE, PA	BELL 47G381 N73247 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 29, 654 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING PROPELLER/ROTOR ACCIDENT TO PERSON			PHASE OF OPERATION LANDING: POWER-ON LANDING STATIC: IDLING ROTORS			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING MISCELLANEOUS ACTS, CONDITIONS - IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR C.G. PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M. ROTORCRAFT - ROTOR ASSEMBLIES: DROOP STOPS MISCELLANEOUS ACTS, CONDITIONS - OVERLOAD FAILURE TERRAIN - ROUGH/UNEVEN PILOT IN COMMAND - OPERATED CARELESSLY EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - POTATOES PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - OTHER ELEVATION-AREA BEING TREATED- FEET - 2500 PROCEDURE TURNAROUND - SECOND 1/3 OF TURN FIRE AFTER IMPACT REMARKS- 337 LBS OVER GROSS. LOST RPM DURING CLIMB. BROKEN STOP LET M/R FLAP LOW. PLT GOT OUT, WAS HIT BY M/R.						
3-4363	9/14/68 TIME - 1530	SHELBURNE, VT	BENSEN B8M N4476 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS TEST	PRIVATE, AGE 35, 126 TOTAL HOURS, 10 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SHELBURNE TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION ROLL OVER			PHASE OF OPERATION LANDING: TRAFFIC PATTERN-CIRCLING LANDING: ROLL			
PROBABLE CAUSE POWERPLANT - IGNITION SYSTEM: SPARK PLUG PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION TERRAIN - WET, SOFT GROUND PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING ON AIRPORT/SEAPLANE BASE/HELIP. REMARKS- FOULED SPARK PLUGS.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4367	10/10/68 TIME - 1630	POINT BARROW, ALAS	BELL 47J-2 N73950 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 31, 2871 TOTAL HOURS, 825 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PRUDHOE BAY						
TYPE OF ACCIDENT			PHASE OF OPERATION			
MISCELLANEOUS			IN FLIGHT: NORMAL CRUISE			
HARD LANDING			LANDING: POWER-ON LANDING			
PROBABLE CAUSE						
PILOT IN COMMAND - CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS						
WEATHER - ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC.						
WEATHER BRIEFING - NO BRIEFING RECEIVED						
WEATHER FORECAST - UNKNOWN/NOT REPORTED						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
ADVERSE/UNFAVORABLE WEATHER						
SKY CONDITION			CEILING AT ACCIDENT SITE			
UNKNOWN/NOT REPORTED			UNKNOWN/NOT REPORTED			
VISIBILITY AT ACCIDENT SITE			PRECIPITATION AT ACCIDENT SITE			
1/2 MILE OR LESS			NONE			
OBSTRUCTIONS TO VISION AT ACCIDENT SITE			TEMPERATURE-F			
ICE FOG			15			
TYPE OF WEATHER CONDITIONS			TYPE OF FLIGHT PLAN			
IFR			NONE			
REMARKS- M/R ICED UP IN ICE FOG, CAUSED LOSS OF RPM AND LIFT.						
3-4371	7/25/68 TIME - 1115	NR. MINCHUMINA, ALAS	BELL 47G-2 N6708D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC FIRE CTL ACTIVITIE	COMMERCIAL, FL. INSTR., AGE 36, 5200 TOTAL HOURS, 800 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			TAKEOFF: INITIAL CLIMB			
HARD LANDING			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
3-4378	11/23/68 TIME - 1455	MARION, MASS	BENSEN B-8 N592B4 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	NONCOMMERCIAL PLEASURE	PRIVATE, AGE 36, 499 TOTAL HOURS, 28 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE						
PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						
REMARKS- FAILED TO MAINTAIN A POSITIVE G LOADING ON M/R. CRASHED ON ROCKS IN WATER.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4381	10/24/68 TIME - 1545	PHOENIX, ARIZ	HUGHES 269A N8717F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	MISCELLANEOUS FERRY	COMMERCIAL, AGE 34, 2700 TOTAL HOURS, 51 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE AIRFRAME - FLIGHT CONTROL SURFACES: HORIZONTAL STABILIZER, ATTACHMENTS MISCELLANEOUS ACTS, CONDITIONS - MISSING PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND PROP/ENGINE VIBRATION REMARKS- LOSS OF ATTACH BOLT CAUSED HORIZ STABILIZER TO SEPARATE FROM ACFT AND STRIKE T/R.						
3-4391	11/12/68 TIME - 1345	LONG BEACH, CALIF	BELL 206A N696MR DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, AGE 51, 15000 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LONG BEACH TYPE OF ACCIDENT COLLIDED WITH: FENCE, FENCEPOSTS			PHASE OF OPERATION LANDING: FINAL APPROACH			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE REMARKS- 4 FT CHAIN LINK FENCE THAT SURROUNDED AREA ON ARPT USED AS HELIPORT.						
3-4420	11/27/68 TIME - 0625	CROSSVILLE, TENN	BELL 47G-2 N120CW DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL. INSTR., AGE 39, 1614 TOTAL HOURS, 1339 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: EN ROUTE TO RELOADING AREA LANDING: FINAL APPROACH			
PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS TERRAIN - HIGH OBSTRUCTIONS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- AUTOROTATIVE APPROACH IN AREA DENSE WITH TREES.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4421	11/27/68 TIME - 1420	CASTAIC,CALIF	BELL 47G3B1 N73957 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 50, 11800 TOTAL HOURS, 1000 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: LOW PASS			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND SUSPECTED OR KNOWN AIRCRAFT DAMAGE						
REMARKS- LANDED WITHOUT FURTHER DAMAGE.						
3-4427	5/21/68 TIME - 1330	DAYTON,OHIO	HUGHES 269B N9479F DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 52, 4314 TOTAL HOURS, 78 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - DAYTON HELPORT			PHASE OF OPERATION			
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR COLLISION WITH GROUND/WATER: UNCONTROLLED			TAKEOFF: INITIAL CLIMB IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: TAIL ROTOR BLADES MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND DIRECTIONAL CONTROL PROBLEM						
REMARKS- FIBERGLASS AIRFOIL SECTION BECAME UNBONDED,SEPARATED FROM BLADE SPAR.						
3-4434	10/20/68 TIME - 1550	MARION,IOWA	AIR-SPACE 18A N6105S DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 34, 40 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LINN-AIRE			PHASE OF OPERATION			
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED			IN FLIGHT: UNCONTROLLED DESCENT			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS MISCELLANEOUS ACTS,CONDITIONS - POORLY PLANNED APPROACH						
FIRE AFTER IMPACT REMARKS- STEEP TURN TO FINAL APPCH.ACFT ROLLED TO INVERTED POSITION DUE TO IMPROPER USE OF RUDDER CONTROL.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4439	12/18/68 TIME - 1330	STORRIE,CALIF	HILLER ACFT FH1100 N748FH DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 1 0	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 29, 3908 TOTAL HOURS, 549 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR ACCIDENT TO PERSON			PHASE OF OPERATION STATIC: IDLING ROTORS			
PROBABLE CAUSE PILOT - FAILED TO INSTR PX IN PROPER APPCH TO ACFT. PERSONNEL - MISCELLANEOUS-PERSONNEL: PASSENGER REMARKS- WALKED INTO SPINNING T/R.						
3-4484	12/28/68 TIME - 1345	RENTON,WASH	HUGHES 269A N8780F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL SOLO	COMMERCIAL, AGE 32, 335 TOTAL HOURS, 12 IN TYPE, INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION TAKEOFF: VERTICAL			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PERSONNEL - FLIGHT INSTRUCTOR: INADEQUATE TRAINING OF STUDENT REMARKS- SECOND SOLO FLT.PREMATURE SOLO.						
3-4518	3/28/68 TIME - 1240	LAKE WALES,FLA	HUGHES 269A N8714F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 42, 765 TOTAL HOURS, 745 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE ROTORCRAFT - TRANSMISSION ROTOR DRIVE SYSTEM: ENGINE DRIVE SHAFT MISCELLANEOUS ACTS,CONDITIONS - DISCONNECTED MISCELLANEOUS ACTS,CONDITIONS - LACK OF LUBRICATION-SPECIFIC PART,NOT SYSTEM PERSONNEL - MAINTENANCE,SERVICING,INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION TERRAIN - ROUGH/UNEVEN EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- ENG DISENGAGED FROM ROTOR DRIVE SHAFT.SHAFT-ADAPTER SPLINE TEETH FAILED DUE TO LACK OF LUBRICATION						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4526	10/13/68 TIME - 0845	CHULUOTA, FLA	GYROPLANE M-2 N4772S DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	MISCELLANEOUS DEMONSTRATION	STUDENT, AGE 36, 400 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FLYING SEMINOLE TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR COLLISION WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEMBLIES: MAIN ROTOR BLADES MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE FACTOR MISCELLANEOUS ACTS, CONDITIONS - SEPARATION IN FLIGHT REMARKS- METAL SPAR INSERT FAILED THROUGH THE OUTBOARD ATTACH BOLT HOLE AT ROTOR HEAD ATTACHMENT.						
3-4545	10/15/68 NR. TIME - 0815	PRUDHOE BAY, ALAS	BELL 47J-2 N8438E DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 1 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 34, 5500 TOTAL HOURS, 4300 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: CONTROLLED PROBABLE CAUSE PILOT IN COMMAND - SPATIAL DISORIENTATION TERRAIN - SNOW-COVERED MISCELLANEOUS ACTS, CONDITIONS - WINDSHIELD, DIRTY, FOGGY, ETC.-RESTRICTED VISION REMARKS- LOSS OF DEPTH PRECEPTION DURING 180 DEG TURN OVER SNOW COVERED LAKE. LARGE AREA OF BUBBLE FOGGED UP						
3-4571	12/17/68 TIME - 1434	TEHACHAPI, CALIF	HUGHES 369H N9001F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, FL. INSTR., AGE 47, 4880 TOTAL HOURS, 1250 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TEHACHAPI TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4574	12/19/68 TIME - 1445	WATAUGA, TEX	BELL 47G-2 N17121 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	INSTRUCTIONAL TRAINING	COMMERCIAL, AGE 32, 187 TOTAL HOURS, 18 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- STUDENT NOT AUTHORIZED BY INSTR TO PRACTICE RUN-ON AUTOROTATIONS.						
3-4584	12/26/68 TIME - 1030	EUREKA, CALIF	HUGHES 269B N9327F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 42, 3700 TOTAL HOURS, 130 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ROLL OVER			PHASE OF OPERATION LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - SELECTED UNSUITABLE TERRAIN MISCELLANEOUS ACTS, CONDITIONS - DISREGARD OF GOOD OPERATING PRACTICE REMARKS- LANDED ON DEEP UNEVEN SNOW WITHOUT SNOW SHOES ON SKIDS.						
3-4596	6/7/68 TIME - 0755	BONNERS FERRY, ID	BELL 47G3B1 N1323X DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 24, 2031 TOTAL HOURS, 933 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: WIRES/POLES			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE			
PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS MISCELLANEOUS ACTS, CONDITIONS - UNWARRANTED LOW FLYING FACTOR MISCELLANEOUS ACTS, CONDITIONS - ALCHOLIC IMPAIRMENT OF EFFICIENCY AND JUDGMENT FIRE AFTER IMPACT REMARKS- BLOOD ALCOHOL LEVEL 58 MG PCT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4613	10/3/68 TIME - 1845	CHULA VISTA,CALIF	HUGHES 269B N9329F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, FL.INSTR., AGE 39, 4100 TOTAL HOURS, 4000 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: EN ROUTE TO TREAT CROP LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - ENGINE STRUCTURE: MASTER AND CONNECTING RODS MISCELLANEOUS ACTS,CONDITIONS - MATERIAL FAILURE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF CROP - TOMATOES PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES REMARKS- NR 4 CONNECTING ROD CAP BOLTS FAILED.						
KIND OF OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED ELEVATION-AREA BEING TREATED- FEET - 50						
3-4649	7/23/68 TIME - 1320	NR.NORTH FORK,ID	BELL 47G3B1 N8537F DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 33, 7000 TOTAL HOURS, 300 IN TYPE, NCT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: OBJECT ROLL OVER			PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE FACTOR PILOT IN COMMAND - SELECTED UNSUITABLE TERRAIN TERRAIN - OTHER FIRE AFTER IMPACT REMARKS- M/R HIT BOULDER.PLT IN HOVER-STOP ON NARROW MT LEDGE.ACFT ROLLED DOWN MT SIDE.						
3-4651	1/24/68 TIME - 0720	MINDEN,NEV	BELL 47G-5 N1329X DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0	INSTRUCTIONAL TRAINING	COMMERCIAL, AGE 24, 174 TOTAL HOURS, 14 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - DOUGLAS TYPE OF ACCIDENT HARD LANDING ROLL OVER			PHASE OF OPERATION LANDING: POWER-ON LANDING LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PERSONNEL - FLIGHT INSTRUCTOR: INADEQUATE TRAINING OF STUDENT REMARKS- PREMATURE SOLOING OF STUDENT.APPROX 11 HRS DUAL AND 2 HRS SOLO.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4673	8/13/68	NR.TWIN FALLS,ID	BELL 47G-3B N8491E DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL CHECK	COMMERCIAL, AGE 24, 238 TOTAL HOURS, 54 IN TYPE, NOT INSTRUMENT RATED.
<p>TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING</p> <p>PHASE OF OPERATION IN FLIGHT: AUTOROTATIVE DESCENT LANDING: POWER-OFF AUTOROTATIVE LANDING</p> <p>PROBABLE CAUSE MISCELLANEOUS ACTS,CONDITIONS - SIMULATED CONDITIONS MISCELLANEOUS ACTS,CONDITIONS - ENGINE LOADED UP CHECK PILOT - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS CHECK PILOT - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC. CHECK PILOT - IMPROPER OPERATION OF FLIGHT CONTROLS</p> <p>FACTOR PILOT IN COMMAND - CONTROL INTERFERENCE COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- ABRUPT THROTTLE REDUCTION WHEN FLT MANUAL STATES RETARC THROTTE SLOWLY,MAINT 2000 RPM.</p>						
3-4699	12/21/68	BRIGHTWOOD,OREG	HILLER UH-12E N382G DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITIE	COMMERCIAL, AGE 37, 3972 TOTAL HOURS, 1200 IN TYPE, NOT INSTRUMENT RATED.
<p>TYPE OF ACCIDENT COLLIDED WITH: DIRT BANK</p> <p>PHASE OF OPERATION LANDING: POWER-ON LANDING</p> <p>PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE</p> <p>FACTOR WEATHER - RAIN</p> <p>SKY CONDITION UNKNOWN/NOT REPORTED</p> <p>CEILING AT ACCIDENT SITE 1500</p> <p>VISIBILITY AT ACCIDENT SITE 3 MILES OR LESS</p> <p>PRECIPITATION AT ACCIDENT SITE RAIN</p> <p>OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE</p> <p>TEMPERATURE-F 25</p> <p>TYPE OF WEATHER CONDITIONS VFR</p> <p>TYPE OF FLIGHT PLAN NONE</p> <p>SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 450 KIND OF CROP - FOREST-TREES PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 2500 REMARKS- M/R STRUCK EMBANKMENT AS ACFT WAS LOWERED FOR A LNDG FROM A HOVER.</p> <p>KIND OF OPERATION - SEEDING FORESTS TYPE OF CHEMICAL USED - DRY CHEMICAL-TOXIC GLOVES - USED CRASH HELMET - AVAILABLE-USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - MOUNTAINOUS</p>						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4716	4/3/68 TIME - 0852	GOLIAD, TEX	HILLER ACFT FH1100 N512FH DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0	COMMERCIAL OTHER	COMMERCIAL, AGE 41, 2388 TOTAL HOURS, 59 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: MAIN ROTOR FIRE AFTER IMPACT REMARKS- UNDER INVESTIGATION.			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE			
3-4734	8/28/68 TIME - 1700	KETCHIKAN, ALAS	HILLER UH-12E N5357V DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 1 0	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL. INSTR., AGE 26, 2344 TOTAL HOURS, 500 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT COLLIDED WITH: TREES PROBABLE CAUSE MISCELLANEOUS - UNDETERMINED FIRE AFTER IMPACT			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE			
3-4750	6/27/68 TIME - 0805	RENO, NEV	BELL 47G-5 N1393X DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL CHECK	COMMERCIAL, AGE 42, 227 TOTAL HOURS, 28 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - RENO-STEAD TYPE OF ACCIDENT COLLISION WITH GROUND/WATER: UNCONTROLLED PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - MISJUDGED ALTITUDE PILOT IN COMMAND - IMPROPER OPERATION OF POWERPLANT & POWERPLANT CONTROLS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS REMARKS- PLT, ON CHECK FLT, MISJUDGED ALT DURING AUTOROTATIONAL DESCENT RESULTING IN T/R GRND STRIKE AT FLARE			PHASE OF OPERATION IN FLIGHT: UNCONTROLLED DESCENT			
3-4843	12/15/68 TIME - 1350	SYLMAR, CALIF	ENSTROM F-28 N4465 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0	INSTRUCTIONAL CHECK	COMMERCIAL, FL. INSTR., AGE 28, 3001 TOTAL HOURS, 28 IN TYPE, INSTRUMENT RATED.
TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS CHECK PILOT - INADEQUATE SUPERVISION OF FLIGHT REMARKS- ROTORCRAFT FLT TEST. EXAMINER ALLOWED PLT TO FLARE TOO STEEPLY. T/R STRUCK GRND.			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4844	11/14/68 TIME - 1205	HAMPDEN, MASS	BELL 206A N3523T DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0	COMMERCIAL POWER/PIPELINE	COMMERCIAL, FL.INSTR., AGE 47, 15930 TOTAL HOURS, 310 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: NORMAL CRUISE			
COLLIDED WITH: TREES			LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE						
POWERPLANT - COMPRESSOR ASSEMBLY: BEARING, ROTOR SHAFT						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
TERRAIN - HIGH OBSTRUCTIONS						
COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- SEPARATOR FRACTURE AND BEARING LOCKUP CAUSED NR 2 COMPRESSOR BEARING TO FAIL.						
3-4867	7/28/68 TIME - 0655	ROBINSON CREEK, KY	SIKORSKY S-58A N4247 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CONSTRUCTION	COMMERCIAL, FL.INSTR., AGE 46, 6775 TOTAL HOURS, 1010 IN TYPE, NOT INSTRU- MENT RATED.
TYPE OF ACCIDENT			PHASE OF OPERATION			
ENGINE FAILURE OR MALFUNCTION			IN FLIGHT: NORMAL CRUISE			
ROLL OVER			LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE						
POWERPLANT - ENGINE STRUCTURE: OTHER						
MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE						
TERRAIN - WET, SOFT GROUND						
EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND						
REMARKS- RETAINING BOLTS FAILED IN CAM AND SECOND ORDER BALANCE WEIGHT UNIT, RESULTED IN LOSS OF CAM ACTION.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4878	12/16/68	UNKNOWN/NOT REPORTED	BELL 47G3B1 N1321X DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, AGE 28, 2950 TOTAL HOURS, 750 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - YAKAI HELIPORT TYPE OF ACCIDENT UNDERSHOOT COLLIDED WITH: TREES PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED DISTANCE, SPEED, ALTITUDE OR CLEARANCE FACTOR WEATHER - UNFAVORABLE WIND CONDITIONS WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 90 TYPE OF WEATHER CONDITIONS VFR REMARKS- PLT ALLOWED ACFT TO SETTLE INTO TREES SHORT OF INTENDED LOG AREA. WIND GUSTING 45K.						
				PHASE OF OPERATION LANDING: FINAL APPROACH LANDING: FINAL APPROACH		
				CEILING AT ACCIDENT SITE 1500 PRECIPITATION AT ACCIDENT SITE NONE TEMPERATURE-F 40 WIND VELOCITY-KNOTS 35 TYPE OF FLIGHT PLAN NONE		
3-4890	12/17/68	MISSOULA, MONT	BELL 206A N4735R DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2	COMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 49, 13000 TOTAL HOURS, 64 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE POWERPLANT - FUEL SYSTEM: FUEL CONTROL POWERPLANT - FUEL SYSTEM: LINES AND FITTINGS MISCELLANEOUS ACTS, CONDITIONS - DISCONNECTED PERSONNEL - MAINTENANCE, SERVICING, INSPECTION: INADEQUATE MAINTENANCE AND INSPECTION PARTIAL POWER LOSS - PARTIAL LOSS OF POWER - 1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- FUEL CONTROL COMPRESSOR DISCHARGE TUBE BECAME UNSCREWED AND SEPARATED FROM TURBINE GOVERNOR.						
				PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOCRATIC LANDING		

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4899	8/31/68 TIME - 1415	MEDFRA, ALAS	BELL 206A N6293N DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0	COMMERCIAL CTR CARGO-D	COMMERCIAL, FL. INSTR., AGE 30, 3649 TOTAL HOURS, 520 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - TURBINE ASSEMBLY: VANES, GUIDE MISCELLANEOUS ACTS, CONDITIONS - FATIGUE FRACTURE TERRAIN - HIGH OBSTRUCTIONS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- FATIGUE OF ONE OR MORE FIRST STAGE COMPRESSOR VANES. TERRAIN DENSE WITH TREES.						
3-4905	5/27/68 TIME - 1150	PORT MOLLER, ALAS	BELL 206A N7817S DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 3	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL. INSTR., AGE 26, 4310 TOTAL HOURS, 145 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING			PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE LANDING: POWER-OFF AUTOROTATIVE LANDING			
PROBABLE CAUSE POWERPLANT - COMPRESSOR ASSEMBLY: BLADE, COMPRESSOR ROTOR MISCELLANEOUS ACTS, CONDITIONS - MATERIAL FAILURE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND REMARKS- ALL BLADES 6 STAGE FAILED.						
6-0004	6/2/68 TIME - 1325	VIENTIANE, LAOS	HILLER FH100 N526FH DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 1	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 33, 5100 TOTAL HOURS, 400 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - VIENTIANE TYPE OF ACCIDENT HARD LANDING REMARKS- CRASHED IN RICE PADDY. INVESTIGATION UNDER THE			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING JURISDICTION OF GOVNT OF LAOS.			
6-0023	6/18/68 TIME - 1045	NR. SAIGON, S. VIETNAM	BELL 204B N8511F DAMAGE-SUBSTANTIAL	CR- 1 3 0 PX- 0 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, AGE 34, 3274 TOTAL HOURS, 1113 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LONG THANH TYPE OF ACCIDENT HARD LANDING ROLL OVER REMARKS- UNDER JURISDICTION OF GOVT OF SOUTH VIETNAM.			PHASE OF OPERATION LANDING: POWER-OFF AUTOROTATIVE LANDING LANDING: POWER-OFF AUTOROTATIVE LANDING			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
6-0057	5/24/68 TIME - 1515	ALBERTA,CANADA	BELL 47G-2 N6141 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 1	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 37, 5000 TOTAL HOURS, 1000 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER			PHASE OF OPERATION TAKOFF: INITIAL CLIMB LANDING: LEVEL OFF/TOUCHDOWN			
PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING PILOT IN COMMAND - IMPROPER IN-FLIGHT DECISIONS OR PLANNING REMARKS- SETTLED WITH POWER. INVESTIGATED AND REPORTED BY THE GOVT OF CANADA.						

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