

For sale by U.S. Department of Commerce, CLEARINGHOUSE for Federal Scientific and Technical Information, Springfield, Va., 22151. Single Copy \$3.00; Microfiche \$0.65.

÷

2 ÷

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 catagories 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 15ϕ per page for printed matter and 75ϕ per page for photographs, plus postage. (Minimum Charge \$1.00).

Copies of material ordered will be mailed from the Washington business firm that holds the current contract for commercial reproduction of the Board's public files. Billing is also direct to you by the same company.

Orders for this material will also involve a \$2.00 user service charge by the Board for special service. This charge is in addition to the cost of commercial reproduction of material and will be included in the bill from the commercial reproduction firm.

Request for reproduction should be forwarded to the:

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

Rotorcraft Helicopter

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 <u>sequence</u> 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 oceurrence 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 <u>Cause</u> will exceed the total number of accidents. The term <u>Factor</u> 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.

ABBREVIATIONS

MEANING

AERIAL ADVERTISE	AERIAL ADVERTISING
AERIAL APPLIC	AERIAL APPLICATION
ATR SHOW/RACING	AIR SHOW/AIR RACING
AERIAL APPLIC AIR SHOW/RACING AIR TAXI - CARGO AIR TAXI - PASSG	AIR TAXI- CARGO OPERATIONS
ATR TAXI - CANGO	AIR TAXI - PASSENGER OPERATIONS
AIN IANI - FASSU	ALK IAAL - FASSENGER OFERALIONS
ASSOC FIRE CIL	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-1	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	AIR TAXI - DASSENGER OPERATIONS ASSOCIATED FIRE CONTROL ACTIVITIES NONSCHEDULED/CHARTER REVENUE CARGO - DOMESTIC NONSCHEDULED/CHARTER REVENUE CARGO - INTERNATIONAL SCHEDULED DOMESTIC CARGO SERVICE SCHEDULED INTERNATIONAL CARGO SERVICE CONSTRUCTION WORK CORPORATE/EXECUTIVE CREW CONTRACT CHARTER - CARGO - DOMESTIC CONTRACT CHARTER - CARGO - INTERNATIONAL CONTRACT CHARTER - PASSENGER - DOMESTIC CONTRACT CHARTER - PASSENGER - DOMESTIC CONTRACT CHARTER - PASSENGER - INTERNATIONAL AERIAL MAPPING PHOTOGRAPHY MILITARY CONTRACT - CARGO - INTERNATIONAL AERIAL MAPPING PHOTOGRAPHY MILITARY CONTRACT - CARGO - INTERNATIONAL MILITARY CONTRACT - PASSENGER - DOMESTIC MILITARY CONTRACT - PASSENGER - DOMESTIC MILITARY CONTRACT - PASSENGER - INTERNATIONAL MILITARY CONTRACT - PASSENGER - DOMESTIC MILITARY CONTRACT - PASSENGER - INTERNATIONAL MILITARY CONTRACT - PASSENGER - INTERNATIONAL MILITARY CONTRACT - PASSENGER - INTERNATIONAL MILITARY CONTRACT - PASSENGER - INTERNATIONAL NONSCHEDULED/CHARTER REVENUE CARGO - INTRA-STATE CARRIER NONSCHEDULED/CHARTER REVENUE PASSENGER-INTRA-STATE CARRIER NONSCHEDULED/CHARTER REVENUE PASSENGER-INTRA-STATE CARRIER OTHER AIRCRAFT AND GROUND ALL OTHER PUBLIC FLYING DAPACUMENTE HERD
MII/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
OT- OTHER PUBLIC PARAJUMP PASSG NS-D PASSG NS-I PASSG S-D PASSG S-I PY-	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	PASSENGER SCHEDULED CARGO SERVICE SCHEDULED PASSENGER SERVICE LOCAL STANDARD TIME OF ACCIDENT WEATHER BUREAU PERSONNEL
WBP	WEATHER BUREAU PERSONNEL
FSP	FLIGHT SERVICE PERSONNEL

PAGE III

INJURIES, ACCIDENTS ROTORCRAFT U.S.GENERAL AVIATION 1968

				INJURIES			
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN		TOTAL
PILOT	32	21	37	162	******		252
COPILOT		_	2	5			
DUAL STUDENT		1	3	12 2		•	10
CHECK PILOT FLIGHT ENGINEER NAVIGATOR			1	2			2
CABIN ATTENDANT					· · ·		ć
EXTRA CREW PASSENGERS	1 13	2 13	1 30	2 125			18
FASSENGERS	15	15	10	125			10.
TOTAL	46	37	72	308		ABOARD	46
* OTHER AIRCRAFT OTHER GROUND	· .	•		1			
					· ·		
RAND TOTAL	46	37	72	309			46

INVOLVES 252 TOTAL ACCIDENTS INVOLVES 35 FATAL ACCIDENTS

PAGE IV

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

KIND OF FLYING BY INJURY INDEX

INJURY INDEX

, P	~ ,c	ر ^م ر	10 HONE
4A A	54ª	WIL	Nº NE

KIND OF FLYING

RECORDS ACCIDENTS PERCENT

	•	,	N .	`				
INSTRUCTIONAL								
DUAL	2		2	12		16	16	6.35
SOLO			1	2		3	3	1.19
СНЕСК			1	2		3	3	1.19
TRAINING	3	2	1	9		15	15	5.95
NONC DMMERCIAL								
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		ź	1	2		5	5	1.98
AERIAL ADVERTISING				1		1	1	.40
POWER AND PIPELINE PATROL		3	1	3		۲	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

PAGE V

KIND OF FLYING BY INJURY INDEX

INJURY INDEX

35 26 42 149

35 26 42 149

13.9 10.3 16.7 59.1

RECORDS

PERCENT

ACCIDENTS

KIND OF FLYING	4ALP	Step!	MIN	2 ⁹ 40 44			RECORDS	ACCIDENTS	PERCENT
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

252

252

PAGE VI

FIRST TYPE OF ACCIDENT BY AIRCRAFT DAMAGE

AIRCRAFT DAMAGE



40¹⁴ FIRST RECORDS ACCIDENTS PERCENT TYPE OF ACCIDENT GROUND-WATER LOOP-SWERVE 3 3 3 1.19 DRAGGED 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 13 4 17 17 6.75 OVERSHOOT UNDERSHOOT 1 2 1.19 3 3 COLLISION BETWEEN AIRCRAFT BOTH IN FLIGHT ONE AIRBORNE BOTH ON GROUND 1 1 l •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 .79 2 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

> PAGE VII

FIRST TYPE OF ACCIDENT BY AIRCRAFT DAMAGE

AIRCRAFT DAMAGE

	AIKCKAFI	DAN	TAGE					
FIRST PE OF ACCIDENT	DESTROYED SUBS	ANTIAL	NONE			RECORDS	ACCIDENTS	PERCEN
STALL	1					1	1	.4
SPIN								
SPIRAL	1					. 1	1	.4
MUSH	1 4					5	5	1.9
FIRE OR EXPLOSION								
IN FLIGHT					•			
ON GROUND								
AIRFRAME FAILURE								
IN FLIGHT	2					2	2	•1
ON GROUND	1					1	1	•
ENGINE TEARAWAY								
ENGINE FAILURE OR MALFUNCTION	10 57					67	67	26.
PROPELLER/ROTOR FAILURE								
PROPELLER								
TAIL ROTOR	3 12					15	15	5.
MAIN ROTOR	6 4					10	10	3.
PROPELLER/ROTOR ACCIDENT TO P	1	1	1			3	3	1.
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.
UNDETERMINED	2					2	2	•
OTHER				÷				
RECORDS	71 179	1	1			252		
ACCIDENTS	71 179	1	1				252	
PERCENT	28.2 71.0	•4	•4					

FIRST PHASE OF OPERATION BY INJURY INDEX

INJURY INDEX

FIRST OPERATIONAL PHASE	FATA	St P10	NIN MIN	10 14 14 14 14 14 14 14 14 14 14 14 14 14				RECORDS	ACCIDENTS	PERCENT	
STATIC											
STARTING ENGINE/S											
IDLING ENGINE/S											
ENGINE RUNUP											
IDLING ROTORS	1	2		2				5	5	1.98	
PARKED-ENGINES NOT OPERATING							N				
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				ı				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			ı	3				4	4	1.59	
ACROBATICS											
BUZZING											
UNCONTROLLED DESCENT	7		4	6				17	17	6.75	

FIRST PHASE OF OPERATION BY INJURY INDEX

INJURY INDEX





RECORDS . ACCIDENTS PERCENT

7

EMERGENCY DESCENT							
LOW PASS	4	1		1	6	6	2.
OTHER			1	1	2	2	•
EN ROUTE TO TREAT CROP	1			3	4	4	1.
EN ROUTE TO RELOADING AREA				2	2	2	
SURVEY FIELD/AREA				2	2	2	•
STARTING SWATH RUN		1	1	2	4	4	1.
SWATH RUN		1	3	4	8	8	з.
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN		1			1	1	•
PROCEDURE TURNAROUND		1	1	8	- 10	10	3.
CLEANUP SWATH	1				1	1	
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP				1	1	1	
LANDING							
TRAFFIC PATTERN-CIRCLING				3	3	3	1.
FINAL APPROACH	1	1	3	5	10	10	3.
INITIAL APPROACH					•		
FINAL APPROACH							
LEVEL OFF/TOUCHDOWN		2	1	3	6	6	2.
ROLL		1		2	3	3	1.
ROLL-ON/RUN-ON				1	1	1	
POWER-ON LANDING	2	2	2	11	17	17	6.
POWER-OFF AUTOROTATIVE LANDIN	1			12	13	13	5.
GO-AR OUND							
MISSED APPROACH							
OTHER		1			1	1	
UNKNOWN/NOT REPORTED	4				4	4	1.
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

PAGE XI

	FAT	AL ACCID	ENTS	NONFA	TAL ACCI	DENTS	ALL ACCIDENTS			
BROAD CAUSE/FACTOR	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	• Oŭ	•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

``

	F AT	AL ACCID		NONFA	TAL ACCI	DENTS	ALL ACCIDENTS		
DETAILED CAUSE/FACTOR	CAUSE	FACTOR	TOT AL	CAUSE	FACTOR	TOTAL	CAUSE	FAC TOR	TOTAL
			•						
** PILOT **									
PILOT IN COMMAND ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT ATTEMPTED OPERATION BEYOND EXPERIENCE/ABILITY LEVEL CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS FAILED TO OBTAIN/MAINTAIN FLYING SPEED MISJUDGED, SPEED, ALTITUDE OR CLEARANCE FAILED TO MAINTAIN ADEQUATE ROTOR RPM FAILED TO MAINTAIN ADEQUATE ROTOR RPM FAILED TO JUSE OR INCORRECTLY USED MISC EQUIPMENT FAILED TO OPERATION OF POWERPLANT + POWERPLANT CONTROLS IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS IMPROPER OPERATION OF FLIGHT CONTROLS IMPROPER IN-FLIGHT DECISIONS OR PLANNING INADEQUATE SUPERVISION OF FLIGHT LACK OF FAMILIARITY WITH AIRCRAFT EXERCISED POOR JUDGMENT OPERATED CARELESSLY SELECTED UNSUITABLE TERRAIN CONTROL INTERFERENCE SPONTANEOUS-IMPROPER ACTION MISJUDGED SPEED MISJUDGED ADEAD	2 3 1 2 1 1 1 1 1 1 1 1 2 1	2	4 3 1 2 1 1 1 1 1 1 1 2 2	2 5 2 1 1 6 1 21 8 3 6 6 2 26 6 7 1 2 2 6 7 1 2 2 1 1 1 2 2 1 1 2 1 2 2 1 1 1 1 6 1 2 1 2	1 1 1 1 1	3 6 2 1 6 1 21 1 8 1 83 6 2 2 6 7 2 2 2 1 1 1 2 2	2 7 2 1 1 9 1 1 2 3 2 7 8 9 7 3 2 7 8 2 4 4 1 2 2 4 1 1 2 2 1 1 2 2 3 2 7 2 3 2 7 2 3 3 2 7 2 3 3 2 7 2 3 3 2 7 2 3 3 2 7 3 2 3 3 2 7 3 3 3 3	1 3 1 1 2 1 1	3 10 2 1 9 1 1 2 3 1 1 8 9 7 3 2 7 8 3 4 1 4 1 1 2 2
MISJUDGED ALTITUDE MISJUDGED CLEARANCE IMPROPER RECOVERY FROM BOUNCED LANDING SPATIAL DISORIENTATION LEFT AIRCRAFT UNATTENDED ENGINE RUNNING FAILED TO MAINTAIN DIRECTIONAL CONTROL FAILED TO ABORT TAKEOFF DIRECT ENTRIES	1 1 1		1 1 1	2 12 1 1 1 1 1 2		2 12 1 1 1 1 1 1 2	2 13 1 2 2 1 1 3		2 13 1 2 2 1 1 3
SUBTOTAL	27	4	31	212	6	218	239	10	249
DUAL STUDENT FAILED TO MAINTAIN ADEQUATE ROTOR RPM IMPROPER OPERATION OF FLIGHT CONTROLS IMPROPER LEVEL OFF SPONTANEOUS-IMPROPER ACTION	1		1	2 7 1 1	-	2 7 1 1	2 8 1 1	3	2 8 1 1
SUBTOTAL	1		1	11		11	12		12
CHECK PILOT FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS IMPROPER OPERATION OF FLIGHT CONTROLS INADEQUATE SUPERVISION OF FLIGHT	-		-	1 1 1 1		1 1 1	1 1 1 1		1 1 1 1
SUBTOTAL				4		4	4		4
** PERSONNEL **									
FLIGHT INSTRUCTOR INADEQUATE TRAINING OF STUDENT MAINTENANCE, SERVICING, INSPECTION IMPROPER MAINTENANCE(MAINTENANCE PERSONNEL) IMPROPER MAINTENANCE(OWNER PERSONNEL)				4 5 2	1	5 5 2	4 5 2	1	5 5 2
а. — — — — — — — — — — — — — — — — — — —									

PAGE XII

CAUS	F/F	ACT	CR.	TABLE

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

PAGE XIII

POWERPLANT (CONTINUED)

CAUSE/FACTOR TABLE

POWERPLANT (CONTINUED)	FA1	AL ACCID	ENTS	NONF	TAL ACCI	DENTS	ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
FUEL CONTROL SAFETY SYSTEM IGNITION SYSTEM TORQUEMETER AIR BLEED EXHAUST SYSTEM THRUST REVERSER				1		1	1		1
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 AIR CONDITION, HEATING AND PRESSURIZATION AUTO PILOT FIRE WARNING SYSTEM FIRE EXTINGUISHER SYSTEM				1		1	1		1
DXYGEN 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 TAIL ROTOR BLADES MAIN ROTOR HEAD ASSEMBLIES DROOP STOPS UNIVERSAL JOINTS, COUPLINGS BEARINGS TRANSMINSSION ROTOR DRIVE SYSTEM	2 1 1 1		2 1 1 1	2 9 1 1 4	1	3 9 1 1 4	4 10 2 1 1 5	1	5 10 2 1 1 5
ENGINE DRIVE SHAFT MAIN ROTOR DRIVE SHAFT FREE WHEEL UNIT MAIN ROTOR GEAR BOX TAIL ROTOR DRIVE SHAFT ASSEMBLY TAIL ROTOR GEAR BOX	1		1	1 1 1 3 1		1 1 1 3 1	1 2 1 3 1		1 2 1 3 1
CLUTCH ASSEMBLY FLIGHT CONTROL SYSTEMS CYCLIC PITCH CONTROL SYSTEM				2		2	2		2
COLLECTIVE PITCH CONTROL SYSTEM MISCELLANEOUS UNITS AND ASSEMBLIES TAIL BOOMS/PYLONS/CONES				1	1	1 1 1	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

PAGE XIV

CAUSE/FACTOR TABLE

AIRPORTS/AIRWAYS/FACILITIES (CONTINUED)	FAT	AL ACCIE	ENTS	NONFA	TAL ACCI	DENTS	ALL ACCIDENTS		
· · · · · ·		FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
AIRPORT CONDITIONS OTHER				2		2	2		2
AIRWAYS FACILITIES									
SUBTOTAL				2		2	2		2
** WEATHER **									
RAIN ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC CONDITIONS CONDUCIVE TO CARB/INDUCTION SYSTEM ICING UNFAVORABLE WIND CONDITIONS SUDDEN WINDSHIFT DOWNDRAFTS, UPDRAFTS LOCAL WHIRLWIND HIGH TEMPERATURE HIGH DENSITY ALTITUDE	1	1	1	3 2 9 1 5 1 3	1 4 1 5	1 3 13 1 6 1 8	3 2 9 1 5 1 1 3	1 5 1 5	1 3 14 1 6 1 1 8
SUBTOTAL	1	1	2	24	12	36	25	13	38
** TERRAIN **									
WET, SOFT GROUND SNDW-COVERED High Vegetation Rough/Uneven High Obstructions Other	1 1 1	1	1 1 2 1	5 4 1 6 7 4	5 1 2 2	10 5 1 8 9 4	5 5 1 7 8 4	5 1 2 3 1	10 6 1 9 11 5
SUBTOTAL	3	2	5	27	10	37	30	12	42
** MISCELLANEOUS **									
EVASIVE MANEUVER TO AVOID COLLISION FOREIGN OBJECT DAMAGE FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS UNDETERMINED	10		10	2 2 5 1		2 2 5 1	2 2 5 11		2 2 5 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 US CHECKLIST-FAILED TO USE DISREGARD OF GOOD OPERATING PRACTICE IMPROPER EMERGENCY PROCEDURES UNWARRANTED LOW FLYING INATTENTIVE TO FUEL SUPPLY POORLY PLANNED APPROACH MISCALGULATED FUEL CONSUMPTION JETTISONED LOAD	1	1	1 1 1	2 1 2 1	1 1 2	2 1 1 2 1 2	2 1 1 2 1 1	1 1 3	2 1 1 1 2 1 1 3
IMPROPERLY SECURED Engine Loaded up Fatigue Fracture RPM-Uncontrollable-overspeed Windshield, Dirty, Foggy, Etc-Restricted Vision	1		1	1 1 9 1	1	1 1 9 1	1 10 1	1	1 10 1 2
WRONG PART Improper Alignment/Adjustment Separation in Flight Lateral Imbalance Corroded/Corrosion	1	4	4	1 1 3 1	8	1 1 8 3 1	1 1 3 2	12	1 12 3 2
CARGO SHIFTED PILOT FATIGUE FUEL EXHAUSTION ALCOHOLIC IMPAIRMENT OF EFFICIENCY AND JUDGMENT IGE-CARBURETOR AIRFRAME IGE ICE-WINDSHIELD		2	2	1 10 3 1	2 1 1	1 2 10 3 1 2	1 10 3 1	2 2 1 1	1 2 10 2 3 1 2

PAGE XV

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)	F AT	AL ACCID	ENTS	NONFA	TAL ACCI	DENTS	AL	L ACCIDE	NT S
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
IMPROPERLY LOADED AIRCRAFT-WEIGHT-AND/OR CG WHITEOUT SUNGLARE	1		1	4 1	1 1 1	5 2 1	5 1	1 1 1	6 2 1
LACK OF LUBRICATION-SPECIFIC PART, NOT SYSTEM OIL EXHAUSTION-ENGINE LUBRICATION SYSTEM SIMULATED CONDITIONS	1		1	2 2 18	1	2 2 18	3 2 18	1	3 2 18
WATER IN FUEL		,		1	,	1 6	1	10	1 10
AIRCRAFT CAME TO REST IN WATER MISSING		4	4	2	6	2	2	10	2
OVERLOAD FAILURE	2	1	3	4	3	7	6	4	10
MATERIAL FAILURE	4		4	20		20	24		24
FUEL STARVATION				4. 2		4	4		4
UNAPPROVED MODIFICATION	1		1	2		2	1		1
ACTION, LACK OF	-		-	1		1	ī.		ī
LEAK/LEAKAGE				1	_	1	1	_	1
DOWNWIND CARBON DEPOSITS					5 1	5		5 1	5
LODSE, PART/FITTING				1	1	i	1	-	i
GROUND RESONANCE				2		2	2		2
BINDING				1	_	1	1	_	1
BURNED DISCONNECTED				2	1	1	2	1	1
GROUNDED				1		1	1		1
IMPROPERLY INSTALLED	1		1	5		5	6		6
OBSTRUCTED				2		2	2	-	2
OUT OF BALANCE				2	1	1	2	1	1
OVERHEATED SCORED				2		2	2		2
SHEARED				ī		ī	ī		ī
STUCK				1		1	1		1
EXCESSIVE TEMPERATURE VIBRATION, EXCESSIVE				2	1	2 5	2 4	1	2 5
DIRECT ENTRY CAUSES							,		

PWR PLT-DEFECTIVE FUEL PUMP DIAPHRAGM. PILOT-DELAVED 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 FATLED. ROTORCFT-RATOR 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

PAGE XVI

1

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	INJURIE: F S I			PILOT DATA
3-0062	1/17/68 TIME - 08	CULVER CITY,CALIF	BELL 47G-2 N412SF DAMAGE-SUBSTANTIAL				COMMERCIAL, AGE 40, 4129 Total Hours, 16 in Type, Instrument Rated.
	NAME OF AIRPORT - HUGHES Type of Accident Hard Landing			PHA: L/	 IWN		
	PILOT I	N COMMAND - SPONTANE N COMMAND - IMPROPER	OPERATION OF FLIGHT		DR H	ELIC RTG.MVD CYCLC CT	L AFT DRNG LVL OFF.
3-0076	1/20/68 TIME - 16		BENSEN WEAVER NONE DAMAGE-SUBSTANTIAL	CR- 1 0 PX- 0 0			NO CERTIFICATE, AGE 36, Unk/NR TOTAL HOURS, Unk/NR IN,TYPE, NOT INSTRUMENT RATED.
	NAME OF A Type of A Stall:					F OPERATION IGHT: LOW PASS	
	PILOT 1 PILOT I	N COMMAND - ATTEMPTE N COMMAND - LACK OF N COMMAND - FAILED T	FAMILIARITY WITH AIR	CRAFT YING SPEED	31L1.	TY LEVEL	

BRIEFS OF ACCIDENTS DATE PILOT DATA FILE LOCATION AIRCRAFT DATA INJURIES FLIGHT PURPOSE F S M/N 3-0107 1/26/68 SUNDANCE, WYO HUGHES 269B CR- 0 0 1 COMMERCIAL COMMERCIAL, AGE 42, 1705 TOTAL HOURS, 575 IN TYPE, PX- 0 0 1 POWER/PIPELINE TIME - 1145 N9397F NOT INSTRUMENT RATED. DAMAGE-SUBSTANTIAL 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 TEMPERATURE-F **OBSTRUCTIONS TO VISION AT ACCIDENT SITE** BLOWING SNOW 31 WIND DIRECTION-DEGREES WIND VELOCITY-KNOTS 315 5 TYPE OF WEATHER CONDITIONS TYPE OF FLIGHT PLAN **VFR** NONE REMARKS- 3 INS LODSE SNO CN EMERG LNDG AREA.ROTOR DWNWSH CAUSED WHITEOUT, PLT MISJUDGED LVL OFF. 3-0124 1/30/68 C. CHRISTI, TEX BELL 47G-4A CR- 0 0 1 MISCELLANEOUS COMMERCIAL, AGE 30, 2500 TOTAL HOURS, 686 IN TYPE, TIME - 1515 N7925S PX- 0 0 0 TEST DAMAGE-SUBSTANTIAL NOT INSTRUMENT RATED. NAME OF AIRPORT - C. CHRISTI, INTL PHASE OF OPERATION TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: TAIL ROTOR TAKEOFF: VERTICAL HARD LANDING LANDING: LEVEL OFF/TOUCHDOWN

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/HELIPT. DIRECTIONAL CONTROL PROBLEM REMARKS- TEST FLT AFTR TAIL ROTOR INSP TO COMPLY WITH AD-68-2-3. BLADE RETAINING NUT THREADS STRIPPED.

PAGE 2

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURTES FI IGHT PTIOT DATA PURPOSE E S M/N _____ 3-0178 2/4/68 VAN NUYS, CALIF HUGHES 269B CR- 0 0 2 INSTRUCTIONAL COMMERCIAL, FL.INSTR., TIME - 1045 N9372F PX- 0 0 0 DUAL AGE 23, 1236 TOTAL HOURS, DAMAGE-SUBSTANTIAL 547 IN TYPE, NOT INSTRU-MENT RATED. NAME OF AIRPORT - VAN NUYS TYPE OF ACCIDENT PHASE OF OPERATION 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 PLAINVIEW, TEX CR- 0 0 1 NONCOMMERCIAL COMMERCIAL, AGE 53, 2465 HUGHES 269A TIME - 1700 TOTAL HOURS, 60 IN TYPE, N8818F PX- 0 0 1 PLEASURE DAMAGE-SUBSTANTIAL NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION COLLISON WITH GROUND/WATER: UNCONTROLLED 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 TCLAND WHEN RPM DROPPED OR TO MAINTAIN LEVEL ATITUDE 3-0208 2/4/68 COMPTON, CALIF HUGHES 269A CR- 0 0 1 NONCOMMERCIAL PRIVATE, AGE 26, 67 TOTAL TIME - 1030 N8879F PX- 0 0 1 PRACTICE HOURS, ALL IN TYPE, NOT DAMAGE-SUBSTANTIAL INSTRUMENT RATED. NAME OF AIRPORT - COMPTON TYPE OF ACCIDENT PHASE OF OPERATION 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.

PAGE

3

BRIEFS	OF	ACCIDENTS	
--------	----	-----------	--

FILE	DATE	LOCATION	AIRCRAFT DATA				FL IGHT PURPOSE	PILOT DATA
-0221	2/9/68 TIME - 1530)	BELL 47J N2895B DAMAGE-SUBSTANTIAL	CR- PX-	0	0 1 0 1	MISCELLANEOUS FERRY	COMMERCIAL, FL.INSTR., AGE 54, 4510 TOTAL HOURS, IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC	ILURE OR MALFUNCT	ION			TAKE	OF OPERATION OFF: INITIAL CLIMB ING: LEVEL OFF/TOUCH	
	SYSTEMS - MISCELLAN PILOT IN FACTOR PERSONNEI PARTIAL POI WEATHER BR WEATHER FOI	COMMAND - ATTEMPT - ANTI-ICING,DE-IC JEGUS ACTS,CONDITI - CONDITIONS CONDU HEOUS ACTS,CONDITI COMMAND - FAILED MAINTENANCE,SE HER LOSS - PARTIAL HEFING - BRIEFED B HECAST - UNKNOMW/N	CTIVE TO CARB./INDUCTI ONS - ICE-CARBURETOR TO MAINTAIN ADEQUATE R RVICING,INSPECTION: IN LOSS OF POWER - 1 ENG Y WEATHER BUREAU PERSC	R DE- ON SY OTOR ADEQU INE INNEL;	ICIN STEN R.P. ATE BY	NG SY M ICI MA MAIN PHON	STEM NG TENANCE AND INSPECTI E	LON
	VISIBILITY 5 OR OVER OBSTRUCTION	IOT REPORTED AT ACCIDENT SITE	CIDENT SITE		P\$ TE	1700 RECIP SNOW EMPER	ITATION AT ACCIDENT	SITE
	300	ION-DEGREES			נש רד	17	ELOCITY-KNOTS F Flight plan	

PAGE 4

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	IN	F	SΜ	/ N	PURPOSE	PILOT DATA
-0230	2/17/68 TIME - 120	SAN ANTONIO,TEX 0		РХ-	0	0	.1	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 45, 15750 TOTAL HOURS, 82 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC Engine F. Hard Lan	AILURE OR MALFUNCTI	ON			IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTORO	
	MISCELLA MISCELLA PILOT IN PILOT IN FACTOR WEATHER COMPLETE PO WEATHER FO	COMMAND - IMPROPER NEOUS ACTS,CONDITIO COMMAND - FAILED T COMMAND - IMPROPER - CONDITIONS CONDUC DWER LOSS - COMPLET IEFING - NO BRIEFIN RECAST - UNKNOWN/NO		ING EG ROTOR CONTR ION SY MEOUT-	UIP R.P OLS STE	MEN M.	T-I CIN	MPROPER OPERATION OF	/FAILED TO USE
	2 MILES OBSTRUCTION FOG WIND DIREC 70 TYPE OF WEN IFR	ION AT ACCIDENT SITE			P T W	40 REC RA EMP 45 IND 11	O IPI IN ERA VE	AT ACCIDENT SITE TATION AT ACCIDENT S TURE-F Locity-Knots Flight Plan	ΙΤΕ
-0235	2/23/68 TIME - 1530		HUGHES 269B N9459F DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL PRACTICE	COMMERCIAL, FL.INSTR., Age 33, 1698 TOTAL HOURS All IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF AC ENGINE F HARD LAN	AILURE OR MALFUNCTI	ON		Ρ	IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTORO	
	PILOT IN PILOT IN	VEOUS ACTS,CONDITIO COMMAND - IMPROPER COMMAND - FAILED T	NS - SIMULATED CONDI OPERATION OF FLIGHT O MAINTAIN ADEQUATE I ROTATION,PLT FAILED 1	CONTR ROTOR	R.P	• M.	ROT	DR RPM ON FLARE OR LI	EVEL ACFT ON TOUCHDOWN.

		BRIEF	S OF ACCIDENTS	
FILE	DATE LOCATION	AIRCRAFT DATA	INJURIES FLIGHT F S M/N PURPOSE	PILOT DATA
3-0265	2/27/68 WINDNA,ARIZ TIME - 1400 TYPE OF ACCIDENT ENGINE FAILURE OR MALFUN COLLIDED WITH: TREES PROBABLE CAUSE POWERPLANT - ENGINE STRU MISCELLANEOUS ACTS,CONDI PARTIAL POWER LOSS - PARTI EMERGENCY CIRCUMSTANCES - FIRE AFTER IMPACT REMARKS- FAILURE OF NC 2 C	CTURE: VALVE ASSEMBLIES TIONS - MATERIAL FAILUF AL LOSS OF POWER - 1 EN FORCED LANDING OFF AIRF	PHASE OF OPERATION IN FLIGHT: HOVERING IN FLIGHT: EMERGENCY DESCEN SE GINE	COMMERCIAL, AGE 40, 6000 TOTAL HOURS, 200 IN TYPE, NOT INSTRUMENT RATED.
3-0320	2/23/68 LONG BEACH,CALI TIME - 1245 NAME OF AIRPORT - LDNG BEA TYPE OF ACCIDENT ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPRO PILOT IN COMMAND - ATTEM PERSONNEL - FLIGHT INSTE REMARKS- PREMATURE SOLOING	N9455F DAMAGE-SUBSTANTIAL CH,PAD 2 PER OPERATION OF FLIGHT PTED OPERATION BEYOND E UCTOR: INADEQUATE TRAIN	PHASE OF OPERATION IN FLIGHT: HOVERING CONTROLS EXPERIENCE/ABILITY LEVEL	STUDENT, AGE 33, 48 TOTAL Hours, 9 in type, not instrument rated.
3-0349	1/16/68 DELTA,OHIO TIME - 1005 TYPE OF ACCIDENT COLLISON WITH GROUND/WAT ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - MISJU FACTOR TERRAIN - SNOW-COVERED REMARKS- RT SKID DUG INTO	DGED ALTITUDE AND CLEAF	PHASE OF OPERATION TAXI: AERIAL TAXI, OTHER LANDING: OTHER	COMMERCIAL, AGE 33, 2966 TOTAL HOURS, 1188 IN TYPE, NOT INSTRUMENT RATED.
3-0448	2/27/68 SINKING SPGS,0H TIME - 1410 TYPE OF ACCIDENT COLLIDED WITH: WIRES/POU PROBABLE CAUSE PILOT IN COMMAND - FAILE	N9406F DA MAGE-DESTRO¥ED .ES	CR- 0 1 0 NONCOMMERCIAL PX- 0 G 1 BUSINESS PHASE OF OPERATION LANDING: FINAL APPROACH	PRIVATE, AGE 33, 591 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA TNJURTES FI IGHT PILOT DATA F S M/N PURPOSE ------_____ 3-0500 3/20/68 NR.CASTAIC.CALIF BELL 47G3B) CR- C O 1 NONCOMMERCIAL COMMERCIAL, AGE 33, 1428 TIME - 1035 N78225 PX- 0 0 2 CORP/EXEC TOTAL HOURS, 254 IN TYPE, DAMAGE-DESTROYED 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 HNTNGTN BCH, CALLE BELL 47G-2 CR- 0 6 1 COMMERCIAL COMMERCIAL, AGE 25, 1500 TIME - 1652 PX- 0 C 0 CTR PASSG-D TOTAL HOURS, 150 IN TYPE, N6720D DAMAGE-SUBSTANTIAL NOT INSTRUMENT RATED. NAME OF AIRPORT - MEADOWLARK TYPE OF ACCIDENT PHASE OF OPERATION COLLISON 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 INITATE EMGCY PROCEDURE CR- 0 0 1 INSTRUCTIONAL 3-0507 3/16/68 GREENVILLE.TEX BELL 47D1 COMMERCIAL, FL.INSTR., TIME - 1730 N8282F PX- 0 0 0 TRAINING AGE 37, 4585 TCTAL HOURS, DAMAGE-SUBSTANTIAL 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 A	CC1		ENT	; 			
FILE			AIRCRAFT DATA		۴	S	M/	1	PURPOSE	PILOT DATA	
		YELLOWSTONE P,WYO 230		CR- PX-					COMMERCIAL MAPPING/PHOTO	COMMERCIAL, FL.INSTR., AGE 47, 1837 TOTAL HOURS, 90 IN TYPE, NOT INSTRUMEN RATED.	
	TYPE OF A ROLL OV		1						OPERATION G: POWER-ON LANDING		
	MISCELL TERRAIN WEATHER E WEATHER F	CAUSE ANEOUS ACTS, CONDITIONS- ANEOUS ACTS, CONDITION - SNOW-COVERED BRIEFING - SELF-HELP, FORECAST - UNKNOWN/NO Y CIRCUMSTANCES - PRE	NS – ICE-WINDSHIELD PILOT CHECKED WEATHER T REPORTED	R DATA							
	5 OR OV OBSTRUCTI NONE TYPE OF V VFR FIRE AFTE	TY AT ACCIDENT SITE Ver Jons to vision at ACC Meather conditions		BROKE	ן ר ר	PR TE	150 ECI NON MPE 30 PE NON	PIT E RATU DF	AT ACCIDENT SITE ATION AT ACCIDENT SITE URE-F FLIGHT PLAN NOW CRUST.		
-0518		WALLS,MISS 745	BELL 206A N7876S Damage-Substantial	CR- PX-	0 0	+	0		NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 43, 250 Total Hours, 150 IN Type, Not Instrument Rated.	
	DAMAGE-SUBSTANTIAL 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					
	PILOT 1	CAUSE IN COMMAND - FAILED TI IN COMMAND - IMPROPER ANEOUS ACTS,CONDITIO	OPERATION OF FLIGHT	CONTR			Μ.				

PAGE 8

		BRIEF	S OF ACCI	DENTS		
FILE	DATE LOCATION	AIRCRAFT DATA	INJUR F	IES S M/N	FL IGHT PURPOSE	PILOT DATA
3-0530	3/16/68 ADELANTO,CALIF TIME - 1230	BENSEN B-8 N1697 DAMAGE-SUBSTANTIAL	PX- 0		NONCOMMERCIAL PLEASURE	STUDENT, AGE 53, 2900 TOTAL HOURS, 81 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPORT - EL MIRAC TYPE OF ACCIDENT ENGINE FAILURE OR MALFUN HARD LANDING			TAKEC	F OPERATION FF: INITIAL CLIMB NG: POWER-OFF AUTOROT	ATIVE LANDING
	PROBABLE CAUSE POWERPLANT - FUEL SYSTEM PWR PLT - DEFECTIVE FUEL PILOT IN COMMAND - FAILE PILOT IN COMMAND - IMPRC COMPLETE POWER LOSS - COMP EMERGENCY CIRCUMSTANCES -	. PUMP DIAPHRAGM. D TO MAINTAIN ADEQUATE PER OPERATION OF FLIGHT LETE ENGINE FAILURE/FLA	CONTROLS	NGINE	2000 - A.	
3-0534	3/26/68 ADELANTO;CALIF TIME - 1500	BENSEN MCCANN N94286 DAMAGE-SUBSTANTIAL	PX- 0		MISCELLANEOUS TEST	NO CERTIFICATE, AGE 47, 135 TOTAL HOURS, 75 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPÔRT - EL MIRAG Type of accident Collison with ground/wat				F OPERATION FF: OTHER	
	PROBABLE CAUSE PILOT IN COMMAND - IMPRO WEATHER - UNFAVORABLE WI WEATHER BRIEFING - NO BRIE WEATHER FORECAST - UNKNOWN	ND CONDITIONS FING RECEIVED	ND CONDIT:	IONS		
	SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SIT 5 OR OVER OBSTRUCTIONS TO VISION AT		PF	UNLIM RECIPI NONE	AT ACCIDENT SITE ITED TATION AT ACCIDENT SI RECTION-DEGREES	ſĔ
	NONE TYPE OF WEATHER CONDITIONS VFR			285	FLIGHT PLAN	
	REMARKS- TAXI TEST, ENCOUNT	ERED STRONG GUST OF WIN	D,ACFT BEG	CAME A	IRBORNE, ROLLED TO THE	R IGHT.
3-0539	1/15/68 CUCAMONGA,CALIF TIME - 1535	HILLER UH12L4 N90483 DAMAGE-SUBSTANTIAL	PX- 0		COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., Age 37, 2364 TOTAL HOURS, 338 IN TYPE, NOT INSTRU- MENT RATED.
	NAME OF AIRPORT - ONTARIO TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: HARD LANDING			TAKEC	F OPERATION FF: INITIAL CLIMB NG: LEVEL OFF/TOUCHDON	NN .
	PROBABLE CAUSE ROTORCRAFT - TRANSMISSIC EMERGENCY CIRCUMSTANCES - REMARKS- CLUTCH SLIPPAGE D	FORCED LANDING OFF AIRP	ORT ON LAN	ND		

BRIEFS OF ACCIDENTS

			BRIEF	SOFA	cci	I D EN	тs		
FILE	DATE	LOCATION	AIRCRAFT DATA		F	SM	I/N	FLIGHT PURPOSE	PILOT DATA
		SUPERIOR, MONT		CR- PX-	0	0	1	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 35, 2600 TOTAL HOURS 900 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF ACC COLLIDED	UDENT WITH: TREES	F OPERATION NG: FINAL APPROACH						
	WEATHER - TERRAIN - WEATHER BRI WEATHER FOR	UNFAVORABLE WIN DOWNDRAFT,UPDRA HIGH OBSTRUCTION EFING - BRIEFED ECAST - UNKNOWN/	FTS NS BY WEATHER BUREAU PERS				RSC	IN	
	SKY CONDITI	ON			C	EIL	ING	AT ACCIDENT SITE	
	UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT SITE							TATION AT ACCIDENT SITE	-
	5 OR OVER						INE	TATION AT ACCIDENT SITE	E
	OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE						ERA	TURE-F	
	WIND DIRECTION-DEGREES							LOCITY-KNOTS	
		THER CONDITIONS			T		OF	FLIGHT PLAN	
	VFR REMARKS- EN	COUNTERED DOWNDR	AFTS ON LEE SIDE OF MI	F.PLT U	NAE		NE TO	STOP SETTLING.ACFT FLY	ABLE,FLOWN TC ARPT.
								·	
-0564	2/21/68 TIME - 1200		SIKORSKY S-58C N868 DAMAGE-DESTROYED					COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 28, 2550 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC				F	PHAS	ЕC	F OPERATION	KATED.
	ENGINE FA Roll over	LURE OR MALFUNC	TION					IGHT: HOVERING NG: LEVEL OFF/TOUCHDOWN	4
	TERRAIN - PARTIAL POW	IT - MISCELLANEOU: · ROUGH/UNEVEN IER LOSS - PARTIAI	5: POWERPLANT FAILURE L LOSS OF POWER - 1 EN	GINE			INE	D REASONS	
	EMERGENCY C FIRE AFTER		DRCED LANDING OFF AIRF	ORT ON	L	AND			

PAGE 10

.

			BRIEFS						
FILE			AIRCRAFT DATA	IN	JUR F	IES			PILOT DATA
	3/30/68 NR.LEE TIME - 0900			С R- Р X -	0			COMMERCIAL CTR CARGO-D	COMMERCIAL, AGE 38, 3242 TOTAL HOURS, 677 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPORT TYPE OF ACCIDEN COLLISON WITH	т	UNCONTROLLED					F OPERATION IGHT: UNCONTROLLED DES	CENT
	MISCELLANEOUS MISCELLANEOUS	ACTS, CONDITION ACTS, CONDITION	E PREFLIGHT PREPARAT S - IMPROPERLY LOADI S - LATERAL IMBALANG IN AN UNCONTROLLABI	ED AIR CE	CRA	FT-	WEI		RACK BEING OVERLOADED
3-0644	3/31/68 NR.WRA TIME - 1145	NGELL,ALAS	HILLER UH-12E N5352V DAMAGE-SUBSTANTIAL	PA-	0	0	T	AIR TARI-PASSG	COMMERCIAL, AGE 53, 5340 TOTAL HOURS, 1269 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDEN ENGINE FAILUR ROLL OVER	E OR MALFUNCTIO	N		P	١N	i FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTA	TIVE LANDING
	MISCELLANEOUS MISCELLANEOUS PILOT IN COMM COMPLETE POWER EMERGENCY CIRCU	ACTS,CONDITION AND - IMPROPER LOSS - COMPLETE MSTANCES - FORC	RIAL AFFECTING NORM, S - OBSTRUCTED OPERATION OF FLIGHT ENGINE FAILURE/FLA ED LANDING OFF AIRPO	CONTR MEOUT- DRT ON	OLS 1 E LA	NG I ND	NE	ARB AT THE VENTURI,RES	TRICTED AIR FLOW.
3-0648	4/3/68 DECA TIME - 1725	TUR,TEX	BELL TOMCAT N5192B DAMAGE-SUBSTANTIAL	PX-				COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 44, 4500 Total Hours, 1500 In Type, not instrument Rated.
	TYPE OF ACCIDEN COLLIDED WITH	T : WIRES/POLES						F OPERATION IGHT: SWATH RUN	RATEDS .
	PROBABLE CAUSE PILOT IN COMM	AND - MISJUDGED	CLEARANCE						
	KIND OF CROP PILOT'S SEAT GOGGLES - NOT	USED	NOT REPORTED		G G	Y PE LOV RAS RAS ERF	ES H H H B AIN	OPERATION - SPAYING C CHEMICAL USED - LIQUI - NOT USED ELMET - AVAIALABLE-NOT AR - NOT INSTALLED -TYPE - LEVEL,FLAT UN-HOW FLOWN - CROSSWI WITH POWER LINE.	D CHEMICAL-TOXIC USED

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA				S M/N		GHT POSE		PILOT DATA
-0649	4/4/68 TIME - 1354		KAMAN H43-A N2843J DAMAGE-SUBSTANTIAL	PX-	0	0	0	COMMER FIRE C	ONTROL		COMMERCIAL, AGE 53, 4950 Total Hours, 106 in Type, Not instrument rated.
	ROLL OVER							GROUND	TION TAXI, OTHER		
	PILOT - D	COMMAND - IMPROPER ELAYED ATTEMPT TO	OPERATION OF FLIGHT LIFTOFF TO REGAIN COU ROLL BACKWARDS INTO A	NTROL		•					
3-0657	1/3/68 TIME - 0852	LOS ANGELES,CALIF	BELL 47G-4A N7821S Damage-destroyed	CR - PX-	0 0	0 1	10	MISCEL POLICE	LANEOUS 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					IN F			TION ORMAL CRUISE ER-OFF AUTORO		LANDING
	MISCELLAN FACTOR MISCELLAN EMERGENCY C	T — ROTOR ASSEMBLI EDUS ACTS,CONDITIC EDUS ACTS,CONDITIC IRCUMSTANCES — FOR	ES: TAIL ROTOR BLADE DNS - FATIGUE FRACTU DNS - SEPARATION IN F CED LANDING OFF AIRP IIL BOOM STRUCK CONCR	RE LIGHT ORT ON				TIME ON	T/R 567 HRS.		
3-0764	2/28/68 TIME - 1320	LA VERNE,CALIF	BELL 47D N320R DAMAGE-SUBSTANTIAL		0	0	2 0	INSTRU DUAL	CTIONAL		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					I	N F		TION IORMAL CRUISE IER-OFF AUTORO	TATIVE	
	DUAL STUD PILOT IN FACTOR TERRAIN -	EOUS ACTS,CONDITIC ENT - IMPROPER OPE COMMAND - INADEQUA WET,SOFT GROUND	DNS - SIMULATED CONDI RATION OF FLIGHT CON TTE SUPERVISION OF FL FOR SOFT FIELD RUN-ON	TROLS IGHT							

•

BRIEFS OF ACCIDENTS

PAGE 12

		·	BRIEF	S OF	ACC	DE	NTS	•	-		
FILE	DATE	LOCATION	AIRCRAFT DATA		INJU F		S M/N		PILOT DATA		
-0769	3/4/68 TIME - 1400	RAND,COLO	BELL 47G3B1 N1323X DAMAGE-SUBSTANTIAL	РХ				COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 27, 3677 Total Hours, 1103 IN Type, Not Instrument Rated.		
	TYPE OF ACC Engine fa Hard Land	ILURE OR MALFUNCT	ION			I	N FI	OF OPERATION LIGHT: HOVERING ING: POWER-OFF AUTOROT			
	MISCELLAN FACTOR MISCELLAN MISCELLAN PARTIAL POW EMERGENCY C	T - ENGINE STRUCT EOUS ACTS,CONDITI EOUS ACTS,CONDITI EOUS ACTS,CONDITI ER LOSS - PARTIAL IRCUMSTANCES - FO	LOSS OF POWER - 1 EN RCED LANDING OFF AIRP	E GINE ORT	E On La			STON CRACKED.GAME COUN	IT,COLO FISH&GAME DEPT.		
-0770	3/5/68 TIME - 0810	CARLSBAD,CALIF	HUGHES 269B N19543 DAMAGE-SUBSTANTIAL	PX				MISCELLANEOUS TEST	COMMERCIAL, FL.INSTR., Age 49, 6391 Total Hours, 2057 In Type, not Instru- Ment Rated.		
	TYPE OF ACC PROPELLER	PORT - PALOMAR HE IDENT /ROTOR FAILURE: M FAILURE: ON GROUN	AIN ROTOR		PHASE OF OPERATION TAXI: AERIAL TAXI TO/FROM LANDING STATIC: IDLING ROTORS						
	MISCELLAN MISCELLAN MISCELLAN PERSONNEL MISCELLAN	T - TRANSMISSION EOUS ACTS,CONDITI EOUS ACTS,CONDITI EOUS - FOREIGN MA - PRODUCTION-DES EOUS ACTS,CONDITI	TERIAL AFFECTING NORM IGN: SUBSTANDARD QUAL ONS - GROUND RESONANC	TION AL C ITY E	N-SPE DPERÀ CONTI	CIF TIO ROL	IC NS	PART,NOT SYSTEM	S OF DRILLED GIL PORT.		
-0799	4/3/68 TIME - 1730	CONCORD TWP,PA	BELL 47J-2A N114CW DAMAGE-SUBSTANTIAL	P	<- 0 <- 0	(O	1 1	NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 44, 5000 Total Hours, 25 in type, Not instrument rated.		
	TYPE OF ACC ENGINE FA HARD LAND			I	NF	OF OPERATION LIGHT: NORMAL CRUISE ING: POWER-OFF AUTOROT					
	MISCELLAN PILOT IN COMPLETE PO EMERGENCY C	COMMAND - IMPROPE EDUS ACTS,CONDITI COMMAND - IMPROPE WER LOSS - COMPLE IRCUMSTANCES - FO	R DPERATION OF POWERP ONS - FUEL STARVATION R OPERATION OF FLIGHT TE ENGINE FAILURE/FLA RCED LANDING OFF AIRP D MIXTURE CONTROL.	CON MEOL	NTROL	S ENG	INE				

			BRIEFS	OF A	CCI	DENT	rs 					
FILE	DATE	LOCATION	AIRCRAFT DATA		F	S M/	'N		PILOT DATA			
		FOX PARK, WYO	HUGHES 269A N8891F DAMAGE-SUBSTANTIAL	CR-	0	ó	1		COMMERCIAL, FL.INSTR., AGE 41, 4654 TOTAL HOURS, 105 IN TYPE, NGT INSTRU-			
	TYPE OF A HARD LA			MENT RATED. PHASE OF OPERATION LANDING: POWER-ON LANDING								
	WEATHER TERRAIN WEATHER B WEATHER F	- DOWNDRAFT,UPDRAFT - UNFAVORABLE WIND - SNOW-COVERED RIEFING - NO BRIEFIN ORECAST - UNKNOWN/NO CIRCUMSTANCES - FOR	ĊONDITIONS G RECEIVED		i L4	ND						
	SKY CONDITION UNKNOWN/NOT REPORTED					CEILING AT ACCIDENT SITE						
	VISIBILITY AT ACCIDENT SITE 5 OR OVER					PRECIPITATION AT ACCIDENT SITE						
	OBSTRUCTIONS TO VISION AT ACCIDENT SITE					TEMPERATURE-F 35						
	WIND DIRECTION-DEGREES 315					WIND VELOCITY-KNOTS						
	TYPE OF WEATHER CONDITIONS					YPE	0 F	FLIGHT PLAN				
	VFR REMARKS- 4-5FT DEEP SNOW.MAIN-TAIL ROTORS DAMAGED ON SNOW CONTACT.WIND 3CK GUSTING 40K FORCED ACFT TO GRND.											
3-0802	4/4/68 TIME - 15	CULVER CITY,CALIF	HUGHES 269A N8923F DAMAGE-SUBSTANTIAL	CR- PX-	0 C	C O	2 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

PAGE 14

			BRIEFS	SOFA	CCI	DEM	ITS					
FILE			AIRCRAFT DATA		F	S I	1/N	PURPOSE	PILOT DATA			
3-0849	3/28/68		HUGHES 269B	CR- PX-	0	0	1	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, FL.INSTR., AGE 37, 1300 TOTAL HOURS, 300 IN TYPE, NOT INSTRU- MENT RATED.			
	NAME OF AI TYPE OF AC MISCELLA		IS PVT		P			F OPERATION C: IDLING ROTORS				
	WEATHER BR	AUSE - UNFAVORABLE WIND IEFING - NO BRIEFIN RECAST - UNKNOWN/NO	IG RECEIVED									
	SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE 5 OR OVER						CEILING AT ACCIDENT SITE UNLIMITED PRECIPITATION AT ACCIDENT SITE NONE					
	OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 260						TEMPERATURE-F 74 WIND VELOCITY-KNOTS 20					
	VFR	ATHER CONDITIONS	OF M/R BLADES, WINDS 2	20K-GU	TYPE OF FLIGHT PLAN NONE -GUSTS TO 3CK,CAUSED BLADE TO STRIKE T/R AND TAIL BOOM.							
9-0891		BROOMFIELD,COLC 9	HUGHES 269B N9500F DAMAGE-SUBSTANTIAL	РХ-	00	00	2 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

.

			BRIEF	S OF AC	CI	DENT	s						
FILE	DATE	LOCATION	AIRCRAFT DATA	INJ F				FLIGHT PURPOSE		PILOT DATA			
3-0952	4/12/68 C TIME - 1330	LOVIS,N MEX	BELL 47G3B1 N8462E DAMAGE-SUBSTANTIAL		0	с 0	1 0	COMMERCIAL AERIAL APPLICATION		COMMERCIAL, AGE 30, 2904 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT RATED.			
	TYPE OF ACCI COLLISON W	DENT ITH GROUND/WATER:	,					OPERATION	ROUN				
	PROBABLE CAU PILOT IN C	SE OMMAND - MISJUDGE	D CLEARANCE										
	KIND OF CR PILOT'S SE GOGGLES - COCKPIT CR TANK/HOPPE ELEVATION-	S IN CROP CONTROL OP - GRAIN FIELDS AT BELT - UNKNOWN	/NOT REPORTED ALLED S D-FEET - 4100		EI CI	YPE LOVE RASH	0F S - HI	OPERATION - SPAYING CHEMICAL USED - LIQU - USED ELMET - AVAILABLE-USE R - NOT INSTALLED -TYPE - LEVEL,FLAT & TURNAROUND - THIRE	JID CH	HEMICAL-TOXIC			
3-0961	5/9/68 A TIME - 1715 Type of Acci Collided W		BELL 47G5 N7841S DAMAGE-SUBSTANTIAL	PX-	0 	0 1AS E	0 01	COMMERCIAL ASSOC CROP CTL ACTIV OPERATION AERIAL TAXI, OTHER	/ITIE	COMMERCIAL, AGE 40, 7750 TOTAL HOURS, 45 IN TYPE, NOT INSTRUMENT RATED.			
	PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE												
	KIND OF CR PILOT'S SE GOGGLES - COCKPIT CR TANK/HOPPE	S IN CROP CONTROL OP - PASTURE AT BELT - UNKNOWN NOT USED ASHPAD - NOT INST R-LOCATION - OTHE			TN GI CF CF Tf	YPE LOVE RASH RASH ERRA	OF S- HI B/ IN-	CHEMICAL USED - DRY - NOT USED ELMET - AVAIALABLE-NO RR - NOT INSTALLED - TYPE - HILLY	CHEMI DT USE	ICAL-NONTOXIC			
3-1003	4/23/68 J TIME - 0715		HUGHES 269B N9463F DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL Corp/exec		COMMERCIAL, FL.INSTR., AGE 28, 1084 TCTAL HOURS, 668 IN TYPE, NGT 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												

PAGE 16

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT PILOT DATA F S M/N PURPOSE CR- 0 0 2 MISCELLANEOUS COMMERCIAL, AGE 28, 1375 3-1020 3/9/68 CARLSBAD, CALIF BELL 47D1 TIME - 1040 N5511V PX- 0 0 0 0THER TOTAL HOURS, 945 IN TYPE, DAMAGE-DESTROYED NOT INSTRUMENT RATED. NAME OF AIRPORT - PALOMAR TYPE OF ACCIDENT PHASE OF OPERATION ROLL OVER TAKEOFF: VERTICAL 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. CR- 0 0 2 COMMERCIAL COMMERCIAL, AGE 46, 7490 3-1117 1/10/68 GALVESTON; TEX BELL 204-B TOTAL HOURS, 566 IN TYPE, TIME - 1143 N8540F PX- 0 0 9 CTR PASSG-D DA MAGE-SUBSTANTIAL NOT INSTRUMENT RATED. NAME OF AIRPORT - SCHOLES FIELD TYPE OF ACCIDENT PHASE OF OPERATION PROPELLER/ROTOR FAILURE: TAIL ROTOR IN FLIGHT: HOVERING HARD LANDING LANDING: POWER-OFF AUTOROTATIVE 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/HELIPT. DIRECTIONAL CONTROL PROBLEM SUSPECTED MECHANICAL DISCREPANCY REMARKS- COUPLING SPLINES FAILED DUE TO LOSS OF LUBRICANT. SEAL DETERIORATED BY REACTIVE SOLVENT USED. STUDENT, AGE 33, 35 TOTAL 3-1195 5/4/68 WINSTED, MINN BENSEN B-8 CR- 0 0 1 NONCOMMERCIAL TIME - 1600 N1075Z PX- 0 0 0 PLEASURE HOURS, ALL IN TYPE, NOT INSTRUMENT RATED. DAMAGE-SUBSTANTIAL NAME OF AIRPORT - WINSTED TYPE OF ACCIDENT PHASE OF OPERATION ENGINE FAILURE OR MALFUNCTION TAKEOFF: INITIAL CLIMB ROLL OVER LANDING: LEVEL OFF/TOUCHDOWN 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/HELIPT. REMARKS- PLT INCORRECTLY INSTALLED LUBRICATION FELT WHICH BECAME WEDGED BETWEEN PTS.LANDED IN PLOWED AREA.

			BRIEFS	6 OF /	4CC1	[D E	ENT	5		
FILE	DATE	LOCATION	AIRCRAFT DATA	II	NJUF F				FLIGHT PURPOSE	PILOT DATA
3-1291	1/18/68 N TIME - 100	R.WYOLA,MONT 0	HUGHES 269B N9389F DAMAGE-SUBSTANTIAL	PX-	0 0	C C	5	 1 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 31, 2227 TCTAL HOURS, 305 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF AC COLLISON	CIDENT WITH GROUND/WATER:	UNCONTROLLED						- OPERATION IGHT: UNCONTROLLED DESCEN	
		COMMAND - FAILED T	O MAINTAIN ADEQUATE F FT STRUCK GRND SPINN]					GH.	r .	
3-1302	4/2/68 TIME - 101		HILLER UH-12E N9757C DAMAGE-DESTROYED						COMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 33, 2000 Total Hours, 500 in type, Not instrument rated.
	TYPE OF AC	RPORT - NEWPORT CIDENT WITH: WIRES/POLES			I			= OPERATION IGHT: NORMAL CRUISE		
	PROBABLE C PILOT IN FIRE AFTER	COMMAND - FAILED T	O SEE AND AVOID OBJEC	CTS O	R GI	BST	TRU	ст	IONS	
3-1356	3/31/68 TIME - 110	YAKIMA,WASH O	HUGHES 269A N8888F DAMAGE-SUBSTANTIAL	PX-					COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 59, 16578 TOTAL Hours, 578 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT STALL: MUSH								F OPERATION IGHT: PROCEDURE TURNAROU	
		COMMAND - IMPROPER	OPERATION OF FLIGHT		ROLS	s				
3-1365	5/5/68 TIME - 163	SAN ANTONIO,TEX O	BELL-CARSON 47G N614X DAMAGE-SUBSTANTIAL	PX-					COMMERCIAL AIR TAXI-PASSG	ATR,FLIGHT INSTR., AGE 39, 2500 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT
	TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING						ΤΑΚ	ΕO	F OPERATION FF: INITIAL CLIMB NG: POWER-OFF AUTOROTATI	RATED.
	COMPLETE P Emergency Fire After	NEOUS - UNDETERMINE OWER LOSS - COMPLET CIRCUMSTANCES - FOR IMPACT	D E ENGINE FAILURE/FLA CED LANDING DFF AIRP PARTIAL CYCLIC CONTRO	ORTO	N L	AN	D		POWER ON TAKEOFF.	

PAGE 18

			BRIEFS	5 OF ACCIDENTS		
FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/I	FLIGHT PURPOSE	PILOT DATA
	4/24/68 N TIME - 122 TYPE OF AC	R.BRIDGEPORT,WASH 25 CCIDENT GAILURE OR MALFUNCTIO	BELL 47G-2 N6717D DAMAGE-SUBSTANTIAL	CR- 0 C PX- 6 5 0		COMMERCIAL, AGE 42, 5829 TOTAL HOURS, 135 IN TYPE, NOT INSTRUMENT RATED.
	MISCELLA MISCELLA PILOT IN COMPLETE P	I COMMAND — INADEQUA NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO I COMMAND — IMPROPER OWER LOSS — COMPLET	TE PREFLIGHT PREPARAT NS - INATTENTIVE TO F VS - FUEL EXHAUSTION OPERATION OF FLIGHT E ENGINE FAILURE/FLAM SED LANDING OFF AIRPO	°UEL SUPPLY Controls Meout−1 Engin		
	KIND OF GLOVES - CRASH HE CRASH BA TERRAIN-	NTA ING IN CROP CONTROL CROP - GRAIN FIELDS NOT USED LMET - AVAILABLE-USI R - NOT INSTALLED TYPE - HILLY IN-HOW FLOWN - CROSSI	ED .	TYPE GOGGL COCKP TANK/	DF OPERATION - SPAYING DF CHEMICAL USED - LIC ES - NOT USED IT CRASHPAD - NOT INST HOPPER-LOCATION - SIDE FION-AREA BEING TREATE	UID CHEMICAL-NONTOXIC ALLED S
3 - 1385	TIME - 061 TYPE OF AC	WITH: WIRES/POLES	BELL 47G-2 N6717D DAMAGE-SUBSTANTIAL	PHASE IN	L COMMERCIAL AERIAL APPLICATION OF OPERATION LIGHT: PROCEDURE TURN DING: POWER-ON LANDING	
	PILOT IN	I COMMAND - MISJUDGEI I COMMAND - IMPROPER CIRCUMSTANCES - FOR PRO	D CLEARANCE OPERATION OF FLIGHT CED LANDING OFF AIRPO YENGINE VIBRATION PECTED OR KNOWN AIRCI	DRT ON LAND		
	KIND OF GLOVES - CRASH HE CRASH BA TERRAIN-	NTA DURS IN CROP CONTROL CRÒP – GRAIN FIELDS - NOT USED ELMET – AVAILABLE-US R – NOT INSTALLED TYPE – MOUNTAINOUS JN-HOW FLOWN – UNKNOU	ED	TYPE GOGGL CCCKP TANK/ ELEVA	DF OPERATION - SPAYING DF CHEMICAL USED - LIC ES - NOT USED LIT CRASHPAD - NOT INST HOPPER-LOCATION - SIDE TION-AREA BEING TREATE DURE TURNAROUND - FIRS	QUID CHEMICAL-NONTOXIC FALLED ES ED-FEET - 2500

1. Care

FILE			AIRCRAFT DATA				FLIGHT	PILOT DATA
	5415	200471011	AIRCRAFT DATA	F	S M.	/N	PURPOSE	
	5/17/68	LEEVILLE,LA	BELL 47G-4 N1331X DAMAGE-SUBSTANTIAL	CR-				COMMERCIAL, AGE 24, 2017 TOTAL HGURS, 20 IN TYPE, NOT INSTRUMENT RATED.
-		CIDENT NEOUS	T		TAI	< EO	F OPERATION FF: VERTICAL NG: POWER-OFF AUTORO	
	ROTORCRA MISCELLA PILOT IN FACTOR TERRAIN EMERGENCY	NFT - TRANSMISSION F FT - TRANSMISSION F NEOUS ACTS,CONDITIO COMMAND - FAILED - ROUGH/UNEVEN CIRCUMSTANCES - FOF	OTOR DRIVE SYSTEM: CL OTOR DRIVE SYSTEM: FF INS - MATERIAL FAILURE O MAINTAIN ADEQUATE R CED LANDING OFF AIRPO ITCH/FREEWHEELING UNIT	REE WHE ROTOR R	EL UN • P• M• LAND	IT	CUSHIONS BROKE, CAUSE	D SHEAR SCREWS TO FAIL.
3−142û		CAPITAN,N MEX	BELL 47G3B1 N1320X DAMAGE-SUBSTANTIAL		0 0 0 0	1 2	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 36, 217 TOTAL HOURS, 1425 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC COLLIDEC HARD LAN	WITH: WIRES/POLES			ΤA	кеа	DF OPERATION DFF: INITIAL CLIMB NG: POWER-OFF AUTORO	
		N COMMAND - MISJUDGE CIRCUMSTANCES - FOR	ED CLEARANCE CED LANDING OFF AIRPO DP/ENGINE VIBRATION	DRT ON	LAND			
3-1488	5/18/68 TIME - 050	WEST DUNDEE,ILL 3	HUGHES 269B N8940F DAMAGE-DESTROYED	CR- PX-	0 C 0 O	1 C	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 45, 7500 TOTAL HOUR 750 IN TYPE, NGT INSTRU MENT RATED.
	TYPE OF AC	IRPORT – ELGIN CCIDENT D WITH: WIRES/POLES					F OPERATION IGHT: STARTING SWATH	
		N COMMAND - INADEQU	NTE PREFLIGHT PREPARAT TO SEE AND AVOID OBJEC					
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HOF ELEVATIO	DURS IN CROP CONTROL CROP - OTHER SEAT BELT - FASTENI - NOT USED CRASHPAD - NOT INS PPER-LOCATION - SIDI DN-AREA BEING TREATI			TYPE GLOV CRAS CRAS TERR SWAT	OF ES H F H E AIN H F	- USED HELMET - AVAILABLE-US	QUID CHEMICAL-NONTOXIC

.

			5 UF A					
DATE	LOCATION						FL IGHT PURPOSE	PILOT DATA
5/22/68	YUKON,OKLA	BELL 47G3B1 N6228N	РХ-					ATR,FLIGHT INSTR., AGE 50, 9640 TOTAL HOURS, 350 IN TYPE, NOT INSTRUMENT RATED.
TYPE OF AC	NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT HARD LANDING							
MISCELLA DUAL STU	NEOUS ACTS, CONDITIO JDENT - IMPROPER OPE	RATION OF FLIGHT CON	TROLS					
		HUGHES 269A N8843F DAMAGE-DESTROYED						COMMERCIAL, FL.INSTR., AGE 39, 870 TOTAL HOURS, 15C IN TYPE, NGT INSTRU- MENT RATED.
MISCELLA	NEOUS ACTS, CONDITIO							
	CHEROKEE,NC	BEĽL 47G−4A N7930S DAMAGE−DESTROYED	CR- PX-	0 0	0 0	1 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 40, 7850 Total Hours, all In Type, not instrument Rated.
		CONTROLLED						KATED .
PILOT IN	I COMMAND - MISJUDGE	D ALTITUDE						
TOTAL HO KIND OF GLOVES - CRASH HE CRASH BA TERRAIN-	UURS IN CROP CONTROL CROP - OTHER NOT USED LMET - AVAIALABLE-N R - NOT INSTALLED TYPF - HILLY MOUNTAINOUS				GOG COC CAN ELE	E OF GLES KPIT K/HC VATI	CHEMICAL USED - LIQUIO - NOT USED CRASHPAD - NOT INSTALLI PPER-LOCATION - SIDES DN-AREA BEING TREATED-FI	CHEMICAL-NONTOXIC ED EET - 4000
	5/22/68 TIME - 132 NAME OF A1 TYPE OF AC HARD LAN PROBABLE C MISCELLA DUAL STU PILOT IN 5/27/68 TIME - 080 NAME OF A1 TYPE OF AC AIRFRAME PROBABLE C MISCELLA REMARKS - C 6/20/68 TIME - 100 TYPE OF AC COLLISON PROBABLE C PILOT IN TERRAIN SPECIAL DA TOTAL HC KIND OF GLOVES - CRASH HE CRASH BA TERRAIN-	5/22/68 YUKON,OKLA TIME - 1320 NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIO DUAL STUDENT - IMPROPER OPE PILOT IN COMMAND - INADEQUA 5/27/68 JENKS,OKLA TIME - 0805 NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT AIRFRAME FAILURE: ON GROUND PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIO REMARKS- OCCURED AT TOUCH DO 6/20/68 CHEROKEE,NC TIME - 1000 TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: PROBABLE CAUSE PILOT IN COMMAND - MISJUDGE TERRAIN - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL KIND OF CROP - OTHER GLOVES - NOT USED CRASH HELMET - AVAIALABLE-N CRASH HELMET - MILLY	DATE LOCATION AIRCRAFT DATA 5/22/68 YUKON,OKLA BELL 47G3B1 TIME - 1320 N6228N DAMAGE-SUBSTANTIAL NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT HARD LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDI DUAL STUDENT - IMPROPER OPERATION OF FLIGHT CON PILOT IN COMMAND - INADEQUATE SUPERVISION OF FL 5/27/68 JENKS,OKLA HUGHES 269A TIME - 0805 N8843F DAMAGE-DESTROYED NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT AIRFRAME FAILURE: ON GROUND PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANC REMARKS- OCCURRED AT TOUCH-DOWN, GENERAL DISINTEGR 6/20/68 CHEROKEE,NC BELL 47G-4A TIME - 1000 N7930S DAMAGE-DESTROYED TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED 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 BEME - AVAIALABLE-NOT USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - HILLY MOUNTAINOUS	DATE LOCATION AIRCRAFT DATA IN 5/22/68 YUKON,OKLA BELL 47G3B1 CR- TIME - 1320 N6228N PX- DAMAGE-SUBSTANTIAL NAME OF AIRPORT - CIMARRON 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 5/27/68 JENKS,OKLA HUGHES 269A CR- TIME - 0805 N8843F PX- DAMAGE-DESTROYED NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT AIRFRAME FAILURE: ON GROUND PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE REMARKS- OCCURRED AT TOUCH-DOWN, GENERAL DISINTEGRATION. 6/20/68 CHEROKEE,NC BELL 47G-4A CR- TIME - 1000 N793CS PX- DAMAGE-DESTROYED TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED 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 BEAR - NOT INSTALLED TERRAIN-TOFF - HILLY MOUNTAINOUS	DATE LOCATION AIRCRAFT DATA INJUT F COLUMN A CONTRACT DATA INJUT F S/22/68 YUKON,OKLA BELL 47G3B1 CR- C TIME - 1320 N6228N PX- C DAMAGE-SUBSTANTIAL NAME OF AIRPORT - CIMARRON 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 5/27/68 JENKS,OKLA HUGHES 269A CR- C TIME - 0805 N8843F PX- C DAMAGE-DESTROYED NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT AIRFRAME FAILURE: ON GROUND PROBABLE CAUSE MISCELLANEOUS ACTS,CONDITIONS - GROUND RESONANCE REMARKS- OCCURRED AT TOUCH DOWN.GENERAL DISINTEGRATION. 6/20/68 CHEROKEE,NC BELL 47G-4A CR- C TIME - 1000 N793CS PX- O DAMAGE-DESTROYED TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED ALTITUDE TERRAIN - DTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KIND OF CROP - OTHER GLOVES - NOT USED CRASH BEAR - NOT INSTALLED TERRAIN-TYPE - HILLY MOUNTAINOUS	DATE LOCATION AIRCRAFT DATA INJURIE F S I 5/22/68 YUKON,OKLA BELL 47G3B1 CR- C C TIME - 1320 NA22RN PX- G O DAMAGE-SUBSTANTIAL NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT PHA: HARD LANDING L. PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPRCPER OPERATION OF FLIGHT CONTROLS PILOT IN COMMAND - INADEQUATE SUPERVISION OF FLIGHT 5/27/68 JENKS,OKLA HUGHES 269A CR- C O TIME - 0805 N8843F PX- O C DAMAGE-DESTROYED NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT PHAE AIRFRAME FAILURE: ON GROUND L/ PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE REMARKS- OCCURRED AT TOUCH DOWN, GENERAL DISINTEGRATION. 6/20/68 CHEROKEE,NC BELL 47G-4A CR- G O TIME - 1000 N793CS PX- O C DAMAGE-DESTROYED TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED ALTITUDE TERRAIN - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI KIND OF CROP - OTHER SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 11 KINI SPACE SASH BAR - NOT INSTALLED TANK	DATE LOCATION AIRCRAFT DATA INJURIES 5/22/68 YUKON,OKLA BELL 47G3B1 CR-0 C 2 TIME - 1320 N6228N PX-0 0 0 NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT PHASE O LANDI HARD LANDING PHASE CLANDI PHASE CLANDI PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL STUDENT - IMPROPER OPERATION OF FLIGHT LANDI 5/27/68 JENKS,OKLA HUGHES 269A CR- C O 2 Z TIME - 0805 N8843F PX- 0 C O DAMAGE-DESTROYED NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT PHASE PHASE C O NAME OF AIRPORT - RIVERSIDE TYPE OF ACCIDENT PHASE MISCELLANEDUS ACTS, CONDITIONS - GROUND RESONANCE REMARKS- OCCURRED AT TOUCH DOWN, GENERAL DISINTEGRATION. CARSH MAKS- OC O DAMAGE-DESTROYED IANDI 6/20/68 CHEROKEE,NC BELL 47G-4A CR-0 0 1 6/20/68 CHEROKEE,NC BELL 47G-4A CR-0 0 1 TIME - 1000 N7930S PX-0 <td>DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT 5/22/68 YUKON-OKLA BELL 47G3B1 CR - 0 C 2 INSTRUCTIONAL TIME - 1320 N6228N PX - 0 0 0 UAL NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT PHASE OF OPERATION HARD LANDING PHASE OF OPERATION LANDING: POWER-OFF AUTOROTAT. PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL 5/27/68 JENKS,OKLA HUGHES 269A CR - C 0 2 INSTRUCTIONAL TIME - 0805 N843F PX - 0 C C 0 DUAL SALABER FAILURE: ON GROUND BA43F PX - 0 C C 0 DUAL NAME OF AIRPORT - RIVERSIDE PHASE OF OPERATION LANDING: POWER-OFF AUTOROTAT. TYPE OF ACCIDENT PHASE OF OPERATION LANDING: POWER-ON LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE PHASE OF OPERATION 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 707AL HOURS IN COMMON - MISJUDGED ALTITUDE TANACHOPER-DOCALL APPLICATION 707AL HOURS IN COMPAND - MISJUDGED ALTITUDE TANACHOPER-DOCALL APPLICATION 707AL HOURS IN COMPAND - MISJUDGED ALT</td>	DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT 5/22/68 YUKON-OKLA BELL 47G3B1 CR - 0 C 2 INSTRUCTIONAL TIME - 1320 N6228N PX - 0 0 0 UAL NAME OF AIRPORT - CIMARRON TYPE OF ACCIDENT PHASE OF OPERATION HARD LANDING PHASE OF OPERATION LANDING: POWER-OFF AUTOROTAT. PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - SIMULATED CONDITIONS DUAL 5/27/68 JENKS,OKLA HUGHES 269A CR - C 0 2 INSTRUCTIONAL TIME - 0805 N843F PX - 0 C C 0 DUAL SALABER FAILURE: ON GROUND BA43F PX - 0 C C 0 DUAL NAME OF AIRPORT - RIVERSIDE PHASE OF OPERATION LANDING: POWER-OFF AUTOROTAT. TYPE OF ACCIDENT PHASE OF OPERATION LANDING: POWER-ON LANDING PROBABLE CAUSE MISCELLANEOUS ACTS, CONDITIONS - GROUND RESONANCE PHASE OF OPERATION 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 6/20/68 CHEROKEE,NC BELL 47G-4A CR - 0 0 1 COMMERCIAL 707AL HOURS IN COMMON - MISJUDGED ALTITUDE TANACHOPER-DOCALL APPLICATION 707AL HOURS IN COMPAND - MISJUDGED ALTITUDE TANACHOPER-DOCALL APPLICATION 707AL HOURS IN COMPAND - MISJUDGED ALT

			BRIEFS						
FILE	DATE	LOCATION	AIRCRAFT DATA	IN	JUR	IES		FLIGHT	PILOT DATA
-1544	5/2/68 NR.A TIME - 1025	SPEN,COLO	BELL 47G3B1 N8575F DAMAGE-SUBSTANTIAL	CR- PX-	0 C	1 1	0	COMMERCIAL MAPPING/PHOTO	COMMERCIAL, AGE 42, 5200 TOTAL HOURS, 1790 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCID COLLISON WI	: CONTROLLED					F OPERATION IGHT: LOW PASS		
	MISCELLANEO TERRAIN - S								
-1548	5/17/68 NR.M TIME - 1315		HILLER UH-12 N979CC DAMAGE-DESTROYED						PRIVATE, AGE 32, 615 Total Hours, all In Type, not Instrument Rated.
	TYPE OF ACCID PROPELLER/R COLLISON WI			1 N	ΗL	F OPERATION IGHT: NORMAL CRUISE IGHT: UNCONTROLLED DES			
	PROBABLE CAUS ROTORCRAFT MISCELLANEO FACTOR MISCELLANEO EMERGENCY CIR	IGHT		-					
	REMARKS- POLI		OP∕ENGINE VIBRATION N.CONTROL ROTOR BLADE	ASSEM	BLY	,P/	N36	209-3,SEPARATED FROM C	ONTROL ROTOR CUFF.
-1553	6/6/68 NR.B Time - 0830		BELL 47G-3B N8532F DAMAGE-SUBSTANTIAL						COMMERCIAL, AGE 31, 3200 TIE TOTAL HOURS, 1500 IN TYPE, NOT INSTRUMENT RATED.
	ENGINE FAIL	TYPE OF ACCIDENT Engine Failure or Malfunction Hard Landing						= OPERATION FF: INITIAL CLIMB NG: POWER-OFF AUTOROTA	
	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	F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1563	2/6/68 NR.LAKESIDE,NEBR TIME - 1630		CR- 1 0 0 PX- 1 0 0		PRIVATE, AGE 41, 700 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: COLLISON WITH GROUND/WAT	TAIL ROTOR ER: UNCONTROLLED		F OPERATION IGHT: NORMAL CRUISE IGHT: UNCONTROLLED DE	ESCENT
	PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEM MISCELLANEOUS ACTS,CONDI MISCELLANEOUS ACTS,CONDI PILOT IN COMMAND - FAILE FACTOR	TIONS - CORREDED/CORRES TIONS - FATIGUE FRACTU	SION JRE		
	MISCELLANEOUS ACTS,CONDI MISSING AIRCRAFT - LATER R EMERGENCY CIRCUMSTANCES -	ECOVERED	PORT ON LAND		
	REMARKS- RECOVERY DATE-2/7			NSIDE BEARING BCSS RA	ADIUS.
3-1592	6/20/68 WEST POINT,VA TIME - 1730	N4210 DAMAGE-SUBSTANTIAL	PX- 0 0 C		PRIVATE, AGE 33, 363 TOTAL HOURS, 1 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPORT - WEST POI TYPE OF ACCIDENT PROPELLER/ROTOR FAILURE: COLLISON WITH GROUND/WAT	MAIN ROTOR	ΤΑΚΕΟ	F OPERATION FF: INITIAL CLIMB IGHT: UNCONTROLLED DE	ESCENT
	PROBABLE CAUSE ROTORCRAFT - ROTOR ASSEM MISCELLANEOUS ACTS,CONDI ROTORCFT - SUDDEN DISSYM REMARKS- SECTION,6INX12IN,	TIONS - MATERIAL FAILUR METRY OF LIFT.	RE		· · · ·
3-1595	4/27/68 NR.CARPENTERIA,CA TIME - 2333	LIF 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 UNDETERMINED	SAMAGE DESTRUTED		F OPERATION WN/NOT REPORTED	
	PROBABLE CAUSE MISCELLANEOUS - UNDETERM FACTOR MISCELLANEOUS ACTS,CONDI MISSING AIRCRAFT - LATER R	TIONS - AIRCRAFT CAME 1	FO REST IN WATER		

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M	N	FLIGHT PURPOSE	PILOT DATA			
	2/6/68	ONAWA,IOWA O		CR- 0 0 PX- 0 0			COMMERCIAL, FL.INSTR., AGE 33, 2309 TCTAL HOURS, 71 IN TYPE, NOT INSTRUMEN RATED.			
	TYPE OF AC Roll ove			ST	TIC	OPERATION : Idling Rotors : Idling Rotors				
	PILOT IN	COMMAND - LEFT A	IRCRAFT UNATTENDED, EN TED OPERATION W/KNOWN D CONDITIONS		IN	EQUIPMENT				
	ROTORCRA WEATHER BR	FT - FLIGHT CONTR IEFING - NO BRIEF RECAST - UNKNOWN/		PITCH CONTRO	IL S	YSTEM				
	SKY CONDIT	ION		CEIL	NG	AT ACCIDENT SITE				
	CLEAR VISIBILITY 5 OR OVE	AT ACCIDENT SHTE R			PIT	TED ATION AT ACCIDENT S	ITE			
	OBSTRUCTIC NONE	NS TO VISION AT A	CCIDENT SITE	TEMPI 35	RAT	URE - F				
	WIND DIREC	TION-DEGREES		WIND	VEL	OCITY-KNOTS				
	320 TYPE OF WE	ATHER CONDITIONS		20 TYPE	0 F	FLIGHT PLAN				
	VFR REMARKS- 1	IMBER SPOTTING.DE	PLANED TO DISCONNECT E	NOI BOOSTER CABLE:		WE TRUCK.WIND 20K.F	RICTION LOCK INOP.			
3-1634		R.MT MORRIS,NY 55	BELL 47D1 N925V DAMAGE-DESTROYED	CR- 0 0 PX- 0 0	1 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 43, 1350 TCTAL HOURS, 115 IN TYPE, NOT INSTRU- MENT RATED.			
	TYPE OF AC STALL: N					OPERATION GHT: PROCEDURE TURN	AROUND			
	PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS ROTORCFT - ENTERED SETTLING WITH POWER CONDITION. FACTOR									
			IONS - JETTISONED LOAD	,						
	SPECIAL DA TOTAL HO KIND OF PILOT'S GOGGLES COCKPIT	TYPE GLOV Cras	0F ES - H HE	OPERATION - SPAYING CHEMICAL USED - LIQ - USED :LMET - AVAIALABLE-N R - NOT INSTALLED	UID CHEMICAL-TOXIC					

			BRIEF	S OF AC	IDEN	٢S			
FILE	DATE	LOCATION	AIRCRAFT DATA	I N JI F	JRIES S M			PILOT DATA	
3-1684	TIME - 1 TYPE OF	525 ACCIDENT FAILURE OR MALFUNCT	ED BELL 47G3B1 N73965 DAMAGE-DESTROYED		D O PHAS LA	2 E O ND I	MISCELLANEOUS DEMONSTRATION F OPERATION NG: FINAL APPROACH NG: POWER-OFF AUTOROT	COMMERCIAL, AGE 32, 2000 TOTAL HOURS, 20 IN TYPE, NOT INSTRUMENT RATED.	
• •	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								
	5 OR O OBSTRUCT NONE WIND DIR 180 TYPE OF VFR	TY AT ACCIDENT SITE VER IONS TO VISION AT AG ECTION-DEGREES WEATHER CONDITIONS	CCIDENT SITE	TY ALT	UN PREC NO TEMP 55 WIND 25 TYPE NO	LIM IPI ERA VE OF	AT ACCIDENT SITE ITED TATION AT ACCIDENT SI TURE-F LOCITY-KNOTS FLIGHT PLAN	ι TE	

				OF AC			-		
FILE	DATE	LOCATION	AIRCRAFT DATA		URI	I E S			PILOT DATA
3-1707	7/4/68 TIME - 11	GULFPORT,MISS	SIKORSKY S-51 N13183 DAMAGE-SUBSTANTIAL	V13183 PX- 0 0 1 BUSINESS					AIRLINE TRANSPORT, AGE 50, 14100 TOTAL HOURS, 4 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A COLLIS	NAME OF AIRPORT - GULFPORT MUNI TYPE OF ACCIDENT COLLISON WITH GROUND/WATER: CONTROLLED ROLL OVER						F OPERATION IGHT: HOVERING IGHT: HOVERING	
	FACTOR PILOT WEATHER WEATHER 1	IN COMMAND - IMPROPE IN COMMAND - LACK OF R - UNFAVORABLE WINE	Y FLIGHT SERVICE PERS	CRAFT		RA	010		
	5 OR D' OBSTRUCT NONÉ	TY AT ACCIDENT SITE	CIDENT SITE		PF Te	UNU REC NO EMPI 85	IM IPI NE ERA	AT ACCIDENT SITE ITED TATION AT ACCIDENT SITE TURE-F LOCITY-KNOTS	
	VFR	WEATHER CONDITIONS WIND 10K GUSTY.ACF1	DRAGGED WHEEL.		T١	10 7 PE NO		FLIGHT PLAN	
3-1710	4/20/68 TIME - 1	TIGARD,OREG 035	HUGHES 269B N9477F	PX-				NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 48, 1790 Total Hours, 43 in Type,
	NAME OF Type of Roll of		DAMAGE-SUBSTANTI AL					F OPERATION FF: VERTICAL	NOT INSTRUMENT RATED.
	FACTOR TERRAI	IN COMMAND - IMPROPE N - WET,SOFT GROUND	R OPERATION OF FLIGHT			DS I	BEF	ORE LIFT-OFF.	

			BRIEF	S OF A	ccı	D	ENT	5		
FILE	DATE	LOCATION	AIRCRAFT DATA	IN			ES M/I		FLIGHT PURPOSE	PILOT DATA
9-1721	6/11/68 TIME - C9 TYPE DF A PROPELL HARD LA	CCIDENT ER/ROTOR FAILURE: 1	HUGHES 269B N9393F DAMAGE-SUBSTANTIAL AIL ROTOR	PX-	C F) אוי 1	S ASE IN 1	2 0F = L I	COMMERCIAL CTR PASSG-D OPERATION GHT: NORMAL CRUISE G: POWER-OFF AUTOROT	COMMERCIAL, AGE 45, 2300 TOTAL HOURS, 300 IN TYPE, NOT INSTRUMENT RATED. TATIVE LANDING
	MISCELL PERSONN PILOT I FACTOR MISCELL	AFT — ROTOR ASSEMBL ANEOUS ACTS,CONDITI EL — MAINTENANCE,SE N COMMAND — IMPRCPE ANEOUS ACTS,CONDITI	IES: UNIVERSAL JOINTS ONS - IMPROPERLY INST RVICING,INSPECTION: I R OPERATION OF FLIGHT ONS - AIRCRAFT CAME T IEX. SPLINE COUPLING S	ALLED MPROPE CONTR O REST	R N OLS IN	4 A I S	√ A⊺ i	ER		
-1722	6/14/68 TIME - 12		BELL 47G-5 N79C7S DAMAGE-SUBSTANTIAL	PX-					INSTRUCTIONAL TRAINING	ATR,FLIGHT INSTR,, AGE 48, 10200 TOTAL HOURS, 5 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A COLLISO	ĈCIDENT N ₩ITH GROUND∕WATER	: CONTROLLED						OPERATION GHT: OTHER	
		N COMMAND - MISJUDG	ED SPEED AND ALTITUDE ROUND DURING POWER RE		FR	R 0 M	м д	PR	ACTICE AUTOROTATION	.U.S.FOREST SERVICE.
-1759	3/30/68 TIME - 15	ORANGE,TEX 15	BRANTLY 305 N2212U DAMAGE-DESTROYED						COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., AGE 31, 2331 TOTAL HOURS, 144 IN TYPE, INSTRUMENT RATED.
	TYPE OF A STALL GEAR CO				P	٦	ΓΑΚΙ	EOF	OPERATION F: INITIAL CLIMB G: POWER-ON LANDING	
	FACTOR TERRAIN PILOT I MISCELL	N COMMAND - IMPROPE - HIGH OBSTRUCTION N COMMAND - SELECTE ANEOUS ACTS;CONDITI	D UNSUITABLE TERRAIN ONS - OVERLOAD FAILUR	E			EGAI	N R	OTATION TO RT. LANDS	ED ON RR STA PLATFORM.

FILE	DATE	LOCATION	AIRCRAFT DATA	F	URIES SM/	PUF	GHT POSE	PILOT DATA
3-1761	6/3/68 N TIME - 150	R.MORGAN,CITY,LA 0	BELL 206A N7943S DAMAGE-DESTROYED	CR-	1 0 0	COMMER AIR TA		COMMERCIAL, AGE 36, 4140 Total Hours, 42 in type, Not instrument rated.
	TYPE OF AC UNDETERM					OF OPERA OWN/NOT	TION REPORTED	
	FACTOR MISCELLA	NEOUS - UNDETERMINE NEOUS ACTS,CONDITIO	D NS - AIRCRAFT CAME TC EXICO.PLT MISSING.INJ				LOAT EQUIPPED	•
3-1775	4/20/68 TIME - 140	CAPE CANAVERL,FLA J	BELL 47H-1 N2891B DAMAGE-SUBSTANTIAL	РХ-		COMMER OTHER		COMMERCIAL, AGE 42, 1580 Total Hours, 154 in type Not instrument rated.
	NAME OF AI Type of AC Hard Lan					OF OPERA OFF: ABC		
	EMERGENCY	COMMAND - IMPROPER CIRCUMSTANCES - PRE SUS PRO	OPERATION OF FLIGHT CAUTIONARY LANDING ON PECTED MECHANICAL DIS P/ENGINE VIBRATION NDETERMINED.MAIN ROTO	AIRPO CREPAN	RT CY	Om on Lo	G.	
3-1806	TIME - 160		N 7520 DA MAGE – SUBSTANTIAL	CR- PX-	0 0 1 0 6 6	NONCOM Pleasu	MERCIAL IRE	STUDENT, AGE 42, 14 TOTA Hours, All in Type, Not Instrument Rated.
	NAME OF AI TYPE OF AC ENGINE F COLLIDED	TATIVE LANDING						
	MISCELLA MISCELLA COMPLETE P EMERGENCY	NT - ENGINE STRUCTU NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO OWER LOSS - COMPLET CIRCUMSTANCES - FOR	NS - EXCESSIVE TEMPER E ENGINE FAILURE/FLAM CED LANDING OFF AIRPO	ATURE ECUT-1 DRT ON	LAND		D ENG OVERHEA	TING.NO 3 PISTON SEIZED

CEC OF ACCIDENTS

			BRIEFS	OF AC	CI	DEN	TS				
FILE,			AIRCRAFT DATA	F	•	S M	/N	FLIGHT PURPOSE	PILOT DATA		
		TORMVILLE,NY		CR-	0	0	1	NONCOMMERCIAL	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										
	MISCELLANE POWERPLANT MISCELLANE PERSONNEL TERRAIN - 1 COMPLETE POW EMERGENCY CI	- ENGINE STRUCTUR OUS ACTS,CONDITION - IGNITION SYSTEM OUS ACTS,CONDITION - MAINTENANCE,SERN WET,SOFT GROUND ER LOSS - COMPLETE RCUMSTANCES - FORC	M: SPARK PLUG NS - GROUNDED VICING,INSPECTION: IN E ENGINE FAILURE/FLAM CED LANDING OFF AIRPO	ADEQUA EOUT-1 RT ON	E1 LA1	NGI ND	NE	TENANCE AND INSPECTION POSITS NR 4 SPARK PLUG			
3-1851	6/21/68 CI TIME - 1000	RONA D MAR,CALIF	BELL 47D1 N12512 DAMAGE-SUBSTANTIAL	CR- PX-	C C	0 0	2 [.] 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 35, 1160 TOTAL HOURS ALL IN TYPE, NCT INSTRU- MENT RATED.		
	TYPE OF ACCI	ORT - ORANGE COUNT DENT ROTOR FAILURE: TAI						OF OPERATION LIGHT: AUTOROTATIVE DE			
	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										
	MISCELLANE MISCELLANE MISCELLANE	OUS ACTS,CONDITION OUS ACTS,CONDITION RCUMSTANCES - FOR	NS - OUT OF BALANCE NS - OVERLOAD FAILURE	RT ON	LAI	ND					

FILE	DATE	LOCATION	AIRCRAFT DATA	INJ F				FLIGHT PURPOSE	PILOT DATA
3-1900	6/14/68 R TIME - 1638	ICE LAKE,WIS	BELL 47J-2 N73258 DAMAGE-DESTROYED					IISCELLANEOUS EST	COMMERCIAL, AGE 48, 4000 Total Hours, Unk/NR IN Type, NOT INSTRUMENT RATED.
	TYPE OF ACCI	ORT - RICE LAKE DENT ITH GROUND/WATER:	UNC ONTROL LED					OPERATION GHT: UNCONTROLLED DE	SCENT
	PROBABLE CAU MISCELLANE FACTOR	SE OUS - UNDETERMINE	D						
			NS - AIRCRAFT CAME TO STALLATION OF MAIN RO					ED FOR TRAILERING-S	ANK IN 20 FT OF WATER.
3-1947	3/21/68 M TIME - 0130	ARLOW HEIGHTS,MD	HUGHES 300 N9502F DAMAGE-DESTROYED					ISCELLANEOUS POLICE PATROL	COMMERCIAL, AGE 35, 2000 Total Hours, 269 IN TYPE, Not Instrument rated.
	TYPE OF ACCI Collided W	DENT ITH: WIRES/POLES						OPERATION GHT: HOVERING	
	PILOT - HO TERRAIN - FIRE AFTER I	OMMAND - EXERCISE VERED OVER UNFAMI HIGH OBSTRUCTIONS MPACT	LIAR AREA AT NIGHT.						
3-2005	3/13/68 S TIME - 1540	AGINAW, TEX	BELL 206A N6270N DAMAGE-SUBSTANTIAL	CR- PX-					COMMERCIAL, AGE 27, 2293 TOTAL HOURS, 109 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRF TYPE OF ACCI ROLL OVER	PORT - GLOBE PLANT IDENT						OPERATION N/NOT REPORTED	
	PILOT IN C	NT - IMPROPER OPE COMMAND - INADEQUA	RATION OF FLIGHT CON TE SUPERVISION OF FL YER OCCURRED DURING L	IGHT	, 51	TUDE	NT :	STATED DURING ATTEMP	TED LDG FROM HOVER.

DATE LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3/23/68 ST LOUIS,MO TIME - 1300	BRANTLY 305 N2224U	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 - DOWNTO Type of accident Roll over	WN HELIPORT	PHASE O		
PILOT IN COMMAND - IMP FACTOR WEATHER - UNFAVORABLE MISCELLANEOUS ACTS,CON WEATHER BRIEFING - NO BR WEATHER FORECAST - UNKNC	ROPER COMPENSATION FOR WI WIND CONDITIONS DITIONS - AIRCRAFT CAME T IEFING RECEIVED WN/NOT REPORTED	ND CONDITIONS O REST IN WATER		
5 OR OVER OBSTRUCTIONS TO VISION A NONE WIND DIRECTION-DEGREES 290 TYPE OF WEATHER CONDITIO VFR	T ACCIDENT SITE NS	2800 PRECIPI NONE TEMPERA 32 WIND VE 15 TYPE OF NONE	TATION AT ACCIDENT S TURE-F LOCITY-KNOTS FLIGHT PLAN	
TIME - 1000 NAME OF AIRPORT - SHAFTE TYPE OF ACCIDENT	DAMAGE-SUBSTANTIAL R	OT- C O 1 PHASE O	F OPERATION	INSTRUMENT RATED.
	3/23/68 ST LOUIS, MO TIME - 1300 NAME DF AIRPORT - DOWNTO TYPE OF ACCIDENT ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMP FACTOR WEATHER - UNFAVORABLE MISCELLANEOUS ACTS, CON WEATHER BRIEFING - NO BR WEATHER FORECAST - UNKNO EMERGENCY CIRCUMSTANCES SKY CONDITION UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT S 5 OR OVER OBSTRUCTIONS TO VISION A NONE WIND DIRECTION-DEGREES 290 TYPE OF WEATHER CONDITIO VFR REMARKS- WINDS 15K GUSTI 7/14/68 SHAFTER, CALIF TIME - 1000 NAME OF AIRPORT - SHAFTE	3/23/68 ST LOUIS, MO BRANTLY 3C5 TIME - 130C N2224U DAMAGE-SUBSTANTIAL NAME OF AIRPORT - DOWNTOWN HELIPORT TYPE OF ACCIDENT ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - IMPROPER COMPENSATION OF FLIGHT PILOT IN COMMAND - IMPROPER COMPENSATION FOR WI FACTOR WEATHER - UNFAVORABLE WIND CONDITIONS MISCELLANEDUS ACTS, CONDITIONS - AIRCRAFT CAME T WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING O UNKNOWN/NOT REPORTED VISIBILITY AT ACCIDENT SITE 5 OR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE WIND DIRECTION-DEGREES 290 TYPE OF WEATHER CONDITIONS VFR REMARKS- WINDS 15K GUSTING TO 20K.ACFT SANK IN MI 7/14/68 SHAFTER,CALIF BENSEN B-8M TIME1000 NI585 DAMAGE-SUBSTANTIAL	3/23/68 ST LOUIS, MO BRANTLY 3C5 CR-1 0 0 TIME - 130C N2224U PX-2 0 2 NAME OF AIRPORT - DOWNTOWN HELIPORT PX-2 0 2 TYPE OF ACCIDENT PHASE O LANDI PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS PLOT IN COMMAND - IMPROPER COMPENSATION FOR WIND CONDITIONS FACTOR WEATHER - UNFAVORABLE WIND CONDITIONS AIRCRAFT CAME TO REST IN WATER WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED 2860 SKY CONDITION CEILING 2800 VISIBILITY AT ACCIDENT SITE PRECIPI 5 OR OVER NONE NONE WIND DIRECTION-DEGREES WIND VE 230 7/14/68 SHAFTER,CALIF BENSEN B-8M CR- C 0 NAME N1585 PX- 0 0 0 NAME OF AIRPORT - SHAFTER N1585 PX- 0 0 NAME OF AIRPORT - SHAFTER TYPE OF PKASE O	DAMAGE-SUBSTANTIAL NAME OF AIRPORT - DOWNTOWN HELIPORT TYPE OF ACCIDENT ROLL OVER PLOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS 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 SKY CONDITION UNKNOWN/NOT REPORTED SKY CONDITION CEILING AT ACCIDENT SITE SOR OVER OBSTRUCTIONS TO VISION AT ACCIDENT SITE NONE OBSTRUCTION-DEGREES WIND OIRECTION-DEGREES WIND OIRECTION-DEGREES 290 7/14/68 SHAFTER,CALIF BENSEN 8-8M CR- G 0 1 NONCOMMERCIAL TIME - 1000 NAME OF AIRPORT - SHAFTER DAMAGE-SUBSTANTIAL OT- C C 1 NAME OF AIRPORT - SHAFTER DEMEMBEL CAUSE DAMAGE-SUBSTANTIAL OT- C C 1 NAME OF AIRPORT - SHAFTER

				S OF A						
FILE	DATE	LOCATION	AIRCRAFT DATA	IN	JUF F	RIES S M/N		FLIGHT PURPOSE		PILOT DATA
	4/24/68 NR.	ASPEN,COLO	BELL 47G3B1 N7942S DAMAGE-SUBSTANTIAL	CR- PX-	อ	0 1	COM	MERCIAL TAXI-PASSG		COMMERCIAL, AGE 48, 12200 TOTAL HOURS, 2400 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC UNDERSHOOT ROLL OVER				F	LAND	ING:	ERATION FINAL APPROACH OTHER		KATED.
	WEATHER - WEATHER - TERRAIN -	COMMAND - EXERCIS DOWNDRAFT,UPDRAF UNFAVORABLE WIND	CONDITIONS							
		ECAST - UNKNOWN/N								
	SKY CONDITIO	אכ			c	EILIN UNLI		ACCIDENT SITE		
	. VISIBILITY / 5 OR OVER	AT ACCIDENT SITE 5 TO VISION AT AC	CIDENT SITE				ΙΤΑΤΙ	ON AT ACCIDENT S	ITE	
	NONE		SCIDENT SITE			59				
	WIND DIRECT		,			15		TY-KNOTS		
	VFR	THER CONDITIONS	ADVERSE CONDITIONS O	F ROCK		NONE		GHT PLAN WINDS 15K,GSTS 2	OK,CAU	SED PREMATURE LDG
-2074	6/4/68 NR. TIME - 0500		BELL 47D-1 N6598D DAMAGE-DESTROYED					MERCIAL IAL APPLICATION		COMMERCIAL, FL.INSTR., AGE 31, 1307 TOTAL HOURS, 1037 IN TYPE, NOT INSTRU- MENT RATED.
		IDENT ILURE OR MALFUNCI √ITH: TREES	TION		F	IN F	L I GHT	ERATION PROCEDURE TURN OTHER	AROUND	
	MISCELLAN TERRAIN - FACTOR	T - MISCELLANEOUS EOUS - EVASIVE MA OTHER	POWERPLANT FAILURE NEUVER TO AVOID COLLI	SION	DET	FERMIN	ED RE	A SONS		
		EOUS ACTS,CONDITI	IONS - JETTISONED LOAD							
	EMERGENCY C	ER LOSS - PARTIAL IRCUMSTANCES - FO	DRCED LANDING OFF AIRP		L/	AND				

~

۰.

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT PILOT DATA PURPOSE F S M/N 2/19/68 WEST LIBERTY, IOWA BENSEN B8M CR- 1 0 0 NONCOMMERCIAL PRIVATE, AGE 28, 148 3-2080 TOTAL HOURS, 4 IN TYPE, TIME - 1425 N5315 PX- 0 0 0 PLEASURE DAMAGE-DESTROYED NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION ENGINE FAILURE OR MALFUNCTION IN FLIGHT: LOW PASS COLLISON WITH GROUND/WATER: CONTROLLED LANDING: POWER-OFF AUTOROTATIVE LANDING PROBABLE CAUSE POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPRCPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE 3-2082 3/15/68 HUGHES 269B CR- 0 0 1 NONCOMMERCIAL COMMERCIAL, AGE 51, WALLA WALLA, WASH TIME - 1330 10000 TOTAL HOURS, 160 IN N9332F PX- 0 C 0 BUSINESS DAMAGE-SUBSTANTIAL 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 NR.KENAI.ALAS BELL 204-B CR- 0 0 1 COMMERCIAL COMMERCIAL, AGE 46, 9000 TOTAL HOURS, 700 IN TYPE, PX- 0 0 1 CTR PASSG-D TIME - 1530 N1189W DA MAGE - SUBSTANTIAL NOT INSTRUMENT RATED. NAME OF AIRPORT - PLATFORM BAKER TYPE OF ACCIDENT PHASE OF OPERATION GEAR COLLAPSED LANDING: POWER-ON LANDING 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

,

			DIVIEI						
FILE	DATE	LOCATION	AIRCRAFT DATA		F	S 1	1/N	PURPOSE	PILOT DATA
3-2086		DUTY,VA 7			0	С	2	MISCELLANEOUS OTHER	
	TYPE OF AC ENGINE F ROLL OVE	AILURE OR MALFUNCTI	ON		1	I	N FL	IF OPERATION IGHT: HOVERING NG: LEVEL OFF/TOUCHDOWN	
	TERRAIN COMPLETE P EMERGENCY	- ROUGH/UNEVEN OWER LOSS - COMPLET CIRCUMSTANCES - FOR	POWERPLANT FAILURE I E ENGINE FAILURE/FLAI CED LANDING OFF AIRP(ION.ROLL-OVER DUE TO	IEOUT-	-1 (ENG	INE		
3-2087	6/5/68 TIME - 073	MARION,VA C	BELL 47G-4 N1160W DAMAGE-SUBSTANTIAL	CR- PX-	0 0	0 0	1 1	COMMERCIAL ASSOC CROP CTL ACTIVITI	COMMERCIAL, AGE 28, 1829 E TOTAL HOURS, 289 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC ENGINE F HARD LAN	AILURE OR MALFUNCTI	ON		F	I	FL	⊫ OPERATION IGHT: SURVEY FIELD∕AREA NG: POWER-OFF AUTOROTÁTI	VE LANDING
	MISCELLA	COMMAND - INADEQUA	TE PREFLIGHT PREPARAT NNS - FUEL EXHAUSTION F ENGINE FATLURE/FLA					NNING	

FILE	DATE	LOCATION	AIRCRAFT DATA				FLIGHT PURPOSE		PILOT DATA
3-2090	6/17/68 TIME - 06	ARCOLA,IND 50	BELL 47G N28C2B DAMAGE-SUBSTANTIAL						COMMERCIAL, AGE 40, 1496 E TOTAL HOURS, 235 IN TYPE NOT INSTRUMENT RATED.
	TYPE OF A ENGINE HARD LA	FAILURE OR MALFUNCTI	ON .			IN FL	F OPERATION IGHT: NORMANG: POWER-C		VE LANDING
	MISCELL WEATHER PILOT I COMPLETE WEATHER B WEATHER F	ANEOUS ACTS, CONDITIO - CONDITIONS CONDUC N COMMAND - IMPROPER POWER LOSS - COMPLET RIEFING - NO BRIEFIN ORECAST - UNKNOWN/NO	TIVE TO CARB./INDUCTI OPERATION OF FLIGHT E ENGINE FAILURE/FLAM G RECEIVED	CON SYS CONTRO 1EOUT-1	TEM LS EN	ICIN GINE			
	SKY CONDI UNKNOWN	TION /NOT REPORTED				IL ING 8000	AT ACCIDE	NT SITE	
	VISIBILIT 5 OR OV	Y AT ACCIDENT SITE				ECIPI RAIN	TATION AT A	ACCIDENT SITE	
	OBSTRUCTI HAZE	ONS TO VISION AT ACC	IDENT SITE			MPERA 59	TURE-F		
÷	WIND DIRE 330	CTION-DEGREES				ND VE 5	LOCITY-KNOT	rs	
	TYPE OF W VFR	EATHER CONDITIONS				PE OF NONE	FLIGHT PLA	AN	

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	I		RIE	S			PILOT DATA
-2091	6/21/68 TIME - 142	ALPINE,ARIZ 6		CR- PX-					COMMERCIAL FIRE CONTROL	COMMERCIAL, FL.INSTR., AGE 48, 6373 TOTAL HOURS, 823 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF AC MISCELLA HARD LAN	NEOUS				٦	TAK	EOF	OPERATION F: INITIAL CLIMB G: POWER-ON LANDING	
	FACTOR WEATHER MISCELLA WEATHER BR		IONS - DOWNWIND Ing received	ION .	AND/	/OI	R PI	_ AN	NING	
	5 OR OVE OBSTRUCTIO NONE	AT ACCIDENT SITE R INS TO VISION AT AC TION-DEGREES	CCIDENT SITE			ו PR דבו דבו	UNL ECI NON MPE 85	IMI PIT E RAT DF	AT ACCIDENT SITE TED ATION AT ACCIDENT SI URE-F WEATHER CONDITIONS	ITE
		/O FROM RESTRICTED	D AREA,SETTLED DUE TO D	DOWNW	IND	T,	/0,	NEA	R GROSS WEIGHT,DENSI	ITY ALT 12500 FT.
-2092		SMITHVILLE,OHIO O	HUGHES 269A N8838F DAMAGE-SUBSTANTIAL	РХ-					NONCOMMERCIAL BUSINESS	STUDENT, AGE 34, 99 TOTAN Hours, all in type, not Instrument rated.
	TYPE OF AC	AILURE OR MALFUNCT					IN	FLI	OPERATION GHT: NORMAL CRUISE G: POWER-OFF AUTOROI	TATIVE LANDING
	MISCELLA MISCELLA PILOT IN FACTOR MISCELLA COMPLETE F EMERGENCY	I COMMAND - INADEQU NEOUS ACTS,CONDITI NEOUS ACTS,CONDITI I COMMAND - IMPROPE NEOUS ACTS,CONDITI OWER LOSS - COMPLE	UATE PREFLIGHT PREPARA IONS - MISCALCULATED FI IONS - FUEL EXHAUSTION ER OPERATION OF FLIGHT IONS - DOWNWIND ETE ENGINE FAILURE/FLA ORCED LANDING OFF AIRP	JEL C CONT MEOUT	ONSI ROL:	UM S EN	PT I GIN	ON	INING	

FILE	DATE	LOCATION	AIRCRAFT DATA	SUFA 				FLIGHT		PILOT DATA
						S M		PURPOSE		
-2093	6/22/68 NF TIME - 0900		BELL 47G3B1 N1357X DAMAGE-SUBSTANTIAL	PX-				COMMERCIAL ASSOC CROP	CTL ACTIVITIE	COMMERCIAL, AGE 29, 2495 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC MISCELLAN HARD LAND	NEOUS			F	ΤA	KEC	F OPERATION FF: INITIAL (NG: POWER-ON		
	FACTOR WEATHER -			FION A	ND/	OR	PLA	NNING		
	SKY CONDIT	ION			C			AT ACCIDENT	SITE	
		AT ACCIDENT SITE			P	REC		TATION AT AC	CIDENT SITE	
	OBSTRUCTION NONE	NS TO VISION AT AC	CIDENT SITE		T	TEMP 50		TURE-F		
	TYPE OF WEA VFR	ATHER CONDITIONS			Т		E OF	FLIGHT PLAN		
	KIND OF (GLOVES - CRASH HEI CRASH BAR	URS IN CROP CONTRO CROP - FOREST-TREE	S NOT USED		ד פ כ ד	TYPE Gogg Cock Tank	OF GLES (PIT	CHEMICAL US - NOT USED CRASHPAD - I PPER-LOCATIO	NOT INSTALLED	IEMICAL-NONTOXIC
	REMARKS- T	O FROM MT TOP,SET	TLED INTO BUSH.HEAVIL	Y LOAD	ED,	WIN	ID C	ALM,11000 FT	DENSITY ALT.	
-2094	6/23/68 TIME - 0609	GRAND LEDGE,MICH	BRANTLY B-2B N2267U DA MAGE-DE STROYED					NONCOMMERCI Pleasure	AL	STUDENT, AGE 62, 231 Total Hours, 130 In Type Not Instrument Rated.
	TYPE OF ACC	R/ROTOR FAILURE: M			, F	IN	I FL)F OPERATION .Ight: Normal .Ng: Power-on		
	ROTORCRAI MISCELLAN PILOT IN	FT - ROTOR ASSEMBL FT - ROTOR ASSEMBL NEOUS ACTS, CONDITI COMMAND - IMPROPE CIRCUMSTANCES - FO	IES: MAIN ROTOR BLADE IES: BEARINGS ONS - VIBRATION,EXCES R OPERATION OF FLIGHT RCED LANDING OFF AIRP OP/ENGINE VIBRATION	SIVE						
	REMARKS- BI		ASSY FAILED DUE TO BR	INELLI	NG.	•				

		LOCATION	AIRCRAFT DATA	F	S M/	N	PURPOSE	PILOT DATA
		LOUISVILLE,KY	HUGHES 269B	CR- 0 PX- 0	0	1 M I		COMMERCIAL, FL.INSTR., Age 25, 1610 TCTAL HOURS, 68 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC	AILURE OR MALFUNC			IN	FLIGH	DPERATION HT: CLIMB TO CRUISE : Power-off Autorot	
	PWR PLT MISCELLA Complete P Emergency	NT - ENGINE STRUC - LOOSE ROD CAP B NEOUS ACTS,CONDIT OWER LOSS - COMPL	TURE: MASTER AND CONNEC OLTS ON NO 4 ROD FAILE IONS - MATERIAL FAILUR ETE ENGINE FAILURE/FLAM ORCED LANDING OFF AIRPO ED AREA.	D. E MEOUT-1 (NGIN	E		
3-2096	6/25/68 TIME - 010		BELL 47G3B1 N1110J DAMAGE-SUBSTANTIAL	CR- 0 PX- 0	0	1 CC 2 Ai	DMMERCIAL Ir taxi-passg.	COMMERCIAL, FL.INSTR., Age 35, 2000 total hours, 1000 in type, not instru- Ment rated.
	TYPE OF AC	RPORT - BORÓN Cident R/Rotor Failure: "	TAIL ROTOR				DPERATION : Initial Climb	
	MISCELLA ROTORCRA	FT - ROTOR ASSEMB NEOUS ACTS,CONDIT FT - TRANSMISSION	LIES: BEARINGS IONS — IMPROPERLY INST. Rotor Drive System: T/ Ions — Fatigue Fractui	AIL ROTO	R DRI	VE SH	HAFT ASSEMBLY	

FILE	DATE		AIRCRAFT DATA		F	S I	1/N	PURPOSE	PILOT DATA
	6/28/68	FORT COLLINS -COLO	BELL 476381	CR-	0	0	1	COMMERCIAN	COMMERCIAL, AGE 24, 1400 Te total hours, 40 in type, Not instrument rated.
	TYPE OF AC Undersho Roll ove	CIDENT IOT	DARAGE-DESTRUTED		P	HA!	E (DF OPERATION Ing: Final Approach Ing: Level Off/Touchdown	
	WEATHER WEATHER TERRAIN WEATHER BP		ITUDE NG RECEIVED	OR PL	ANN	1110	•	•	
	SKY CONDIT CLEAR	TON AT ACCIDENT SITE				UI	ILI	G AT ACCIDENT SITE MITED ITATION AT ACCIDENT SITE	
	5 OR OVE	R	· · · ·			N	NE		
	OBSTRUCTIO	INS TO VISION AT AC	CIDENT SITE			1641 50		ATUR E- F	
	WIND DIREC	TION-DEGREES				IN		ELOCITY-KNOTS	
	TYPE OF WE	ATHER CONDITIONS			T	YPI NC	E OI	F FLIGHT PLAN	
	renarks- s	ETTLED SHORT WHILE	ATTEMPTING TO LAND O	IN A MT	LE	DGI	i. I	ROLLED DOWN MT. DENS ALT	13000 FT.
3-2101	6/28/68 TIME - 104	MUSKEGON, MICH S	HILLER UH-12D N10321 DAMAGE-SUBSTANTIAL	PX-	0	0 0	1 0	MISCELLANEOUS Test	COMMERCIAL, FL.INSTR., Age 42, 2586 total Hours, (In Type, Instrument
	NAME OF AL	RPORT - MUSKEGON C	OUNTY						RATED.
	TYPE OF AC Hard Lan							DF OPERATION Ing: Power-on Landing	
		COMMAND - ATTEMPT	ED OPERATION BEYOND E R OPERATION OF FLIGHT				SIL:	ITY LEVEL	
	PILOT IN ROTORCRA MISCELLA	FT - ROTOR ASSEMBL Neous Acts, conditi	ED OPERATION W/KNOWN IES: MAIN ROTOR BLADE ONS - VIBRATION,EXCES ME 3HRS.VIBRATION DUE	S SIVE			-	N EQUIPMENT E FROM BEING IN STORAGE.	

			BRIEF						
FILE	DATE	LOCATION	AIRCRAFT DATA	IN				FLIGHT PURPOSE	PILOT DATA
-2105		LAKEVIEW,OHIO	BENSEN B7 N59361 DAMAGE-SUBSTANTIAL						STUDENT, AGE 46, 260 TOTAL HOURS, 13 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AID TYPE OF ACC HARD LAND				- 1			F OPERATION NG: POWER-ON LANDING	
	PILOT IN	COMMAND - IMPROPE COMMAND - MISJUDG						LACK OF AIRSPEED AND	LIFT.
-2106	7/4/68 TIME - 1255	PARAMOUNT,CALIF	HUGHES 269B N9456F DAMAGE-SUBSTANTIAL	PX-	0 0	0 0	1 1	MISCELLANEOUS POLICE PATROL	COMMERCIAL, FL.INSTR., Age 35, 2005 Total Hours, 1765 in type, not instru- Ment Rated.
	TYPE OF ACC	ILURE OR MALFUNCT	ION			١I	I FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTA	
	POWERPLAN MISCELLAN MISCELLAN MISCELLAN COMPLETE PO EMERGENCY (- MAINTENANCE,SE HT - LUBRICATING S' HEOUS ACTS,CONDITI HEOUS ACTS,CONDITI HEOUS ACTS,CONDITI HEOUS ACTS,CONDITI DWER LOSS - COMPLE LIRCUMSTANCES - FO	YSTEM: MAGNETIC PLUGS DNS - MISSING DNS - WRONG PART DNS - OIL EXHAUSTION- TE ENGINE F AILURE/FLA I RCED LANDING OFF AIR P	ENGINE MEOUT- DRT OM	: LÜ -1 E	JBR 1 ENG 1 AND	CAT INE	ENANCE AND INSPECTION ION SYSTEM Lack of Safety Wire/N	OT TIGHTENED.
-2107	7/8/68 TIME - 1550	BROO MFIELD ;COLO)	HUGHES 2 69A N8892F DAmag e-substantial		0 0	0	2 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., Age 25, 2045 Total Hours, 145 In Type, not Instru-
	TYPE OF ACC	TER LOOP-SWERVE	COUNTY			11	FL	F OPERATION IGHT: HOVERING NG: POWER-ON LANDING	MENT RATED.
	PILOT IN TERRAIN -	DENT - IMPROPER OP Command - Inadequ Other	ERATION OF FLIGHT CON ATE SUPERVISION OF FL AL,LATERAL,DIRECTIONA	IGHT	'R 01	L FF	OM	3FT HOVER.ACFT TURNED	OVER INTO DITCH.

FILE	DATE	LOCATION	AIRCRAFT DATA	I	NJUF F			FLIGHT PURPOSE	PILOT DATA
-2108	7/10/68 TIME - 1700	OCEAN DR BEACH,NC	BELL 47D1 N4253A DAMAGE-SUBSTANTIAL					COMMERCIAL OTHER	COMMERCIAL, FL.INSTR., AGE 50, 7000 TOTAL HOURS, 2000 IN TYPE, NOT INSTRU- MENT RATED.
	NAME OF AIR Type of ACC Hard Land Roll Over	ING	1		F	LÁ	NDI	F OPERATION NG: LEVEL OFF/TOUCHDOW NG: LEVEL OFF/TOUCHDOW	
	WEATHER - WEATHER BRI		G RECEIVED	ND CO1	NDIT	101	15		
		OT REPORTED AT ACCIDENT SITE				UI PREC	IKNC	AT ACCIDENT SITE WN/NOT REPORTED TATION AT ACCIDENT SIT	Ε
		S TO VISION AT ACCI	IDENT SITE			93	3	TURE-F Locity-knots	
	VFR	THER CONDITIONS GHT-SEEING RIDES.31	FT AERIAL TAXI IN 254	(WING		Ň	E OF DNE	FLIGHT PLAN STS.	
-2136	7/1/68 TIME - 1315	CAPE CANAVERL,FLA	BELL 47G N4018A DAMAGE-SUBSTANTIAL					COMMERCIAL Mapping/Photo	COMMERCIAL, AGE 44, 370 Total Hours, 26 in type, Not instrument rated.
	TYPE OF ACC	TER LOOP-SWERVE			F	11	N FL	F OPERATION IGHT: HOVERING NG: LEVEL OFF/TOUCHDOW	
	PROBABLE CA PILOT IN		OPERATION OF FLIGHT	CONT	ROLS	5			
1-2184	TIME - 0830		HUGHES 269A N8931F Damage-Substantial	CR- PX-	Ó	Ó	0		COMMERCIAL, FL.INSTR., Age 25, 420 Total Hours, 175 In Type, not Instru- Ment Rated.
	TYPE OF ACC Hard Land				F			F OPERATION NG: POWER-OFF AUTOROTA	TIVE LANDING
	DUAL STUD PILOT IN	EOUS ACTS,CONDITION ENT - IMPROPER OPEN	NS – SIMULATED CONDI RATION OF FLIGHT CON TE SUPERVISION OF FL E LDG PRACTICE.	ROLS					

BRIEFS OF ACCIDENTS

.

rile	DATE	LOCAT ION	AIRCRAFT DATA	11	NJUF F	LIES S M	/N	FL IGHT PURPOSE	PILOT DATA
3-2188	5/27/68 Time - 053	ARROYO GRANDE, CAL O		CR- PX-				COMMERCIAL Assoc crop ctl activiti	COMMERCIAL, AGE 41, 6000 E TOTAL HOURS, UNK/NR IN Type, NOT INSTRUMENT RATED.
	TYPE OF AC Propelle	CIDENT R/Rotor Failure: Ta	IL ROTOR		F	PHAS IN	E O FL	F OPERATION IGHT: NORMAL CRUISE	
	MISCELLA EMERGENCY	FT - TRANSMISSION R Neous Acts, Conditio Circumstances - For	OTOR DRIVE SYSTEM: T/ NS - FATIGUE FRACTUI Ced Landing off Airpo Entering Pin,p/n24527	E IRT O	N L/	ND		SHAFT ASSEMBLY Dint.Successful Autorota	TIVE LDG.
3-2208	6/29/68 TIME – 100	PANAMA CITYOFLA S	BELL 47G-2 N51858 Damage-substantial	CR- PX-	00	0	1 2	COMMERCIAL OTHER	COMMERCIAL, FL.INSTR., Age 52, 5000 total hours 1000 in type, not instru Ment rated.
	NAME OF AL Type of ac Propelle Hard Lam	RPORT — EDGEWATER B Cident R/Rotor Failure: Ta Ding	EACH Il Rotor		I	PHAS TA LA	E O Keo Ndi	DF OPERATION DFF: VERTICAL NG: LEVEL OFF/TOUCHDOWN	
	PROBABLE (ROTORCR/ MISCELL/ PILOT IN EWERGENCY	AUSE FT - ROTOR ASSEMBLI INEOUS ACTS,CONDITIC I COMMAND - IMPROPER CIRCUMSTANCES - FOR PRO	ES: TAIL ROTOR BLADE: NNS - MATERIAL FAILUR Operation of Flight CED Landding on Airpoi P/Engine Vibration	CONT CONT	ROLS	S AN E	BAS		
	KEMARK 5- I		TS.FAILED T/R BLADE I						
3-2210		MANNING, SC	HUGHES 269A N8917F DAMAGE-SUBSTANTIAL	CR- PX-	0	0	1 0	COMMERCIAL Aerial Application	COMMERCIAL, AGE 27, 2053 Total Hours, 240 in type Not instrument rated.
	TYPE OF AU Stall: 1	CIDENT	DAMAGE-SUBSTANTIAL					DF OPERATION .IGHT: SWATH RUN	NOT ENSINGHENT ARTES
	PILOT I	I COMMAND - IMPROPER I Command - Improper	OPERATION OF POWERP Operation of flight Omaintain Adequate	CONT	ROL	5		ANT CONTROLS	
	PILOT'S GOGGLES COCKPIT TANK/HO	NTA DURS IN CROP CONTROL CROP - COTTON SEAT BELT - FASTENE - NOT USED CRASHPAD - NOT INSI PPER-LOCATION - SIDE PPER-LOCATION - SIDE NM-AREA BEING TREATE	- 200 ED-PROPERLY FALLED ES EDEFEET - 100			KIND TYPE GLOV CRAS CRAS TERP		OPERATION - SPAYING CRC Chemical Used - Liquid - Not Used Helmet - Available-Used Sar - Not Installed HTYPE - Level,flat UN-HOW Flown - Downwind	IPS CHEMICAL-TOXIC

.

FILE			AIRCRAFT DATA	IN.	JUF F	IES		FLIGHT	PILOT DATA
		LDS ANGELES,CALIF	BELL 47J-2		0	0	1 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 45, 16208 TOTAL HOURS, 3827 I Type, not instrument Rated.
	TYPE OF ACC	RPORT - LOS ANGELES Ident With: Object			F	HAS TA	E 01 (1:	F OPERATION Aerial Taxi To/From Land	DING
		AUSE Command - Misjudged Nin Rotor Blades Str							
3-2273		MONROEVILLE,PA	BRANTLY B-28 N5948X DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL Practice	PRIVATE, AGE 31, 800 Total Hours, 250 in type, Not instrument rated.
	TYPE OF ACC AIRFRAME	RPORT - MONROEVILLE Lident Failure: in flight R/Rotor Failure: Tai				IN	FL	F OPERATION Ight: Autorotative descen Ight: Autorotative descen	
	AIRFRAME MISCELLAN ROTORCRAF MISCELLAN	EOUS ACTS,CONDITION - FLIGHT CONTROL SU HEOUS ACTS,CONDITION T - ROTOR ASSEMBLIE HEOUS ACTS,CONDITION	IS - SIMULATED CONDI RFACES: HORIZONTAL IS - FATIGUE FRACTUI S: TAIL ROTOR BLADE IS - OVERLOAD FAILUR TING.RT STABILIZER	STABIL Re S				ACHMENTS D.STABILIZER BROKE OFF SI	FRUCK T/R.SAFE LDG.
3-2300	MISCELLAN AIRFRAME MISCELLAN ROTORCRAF MISCELLAN REMARKS- PF	VEOUS ACTS, CONDITION - FLIGHT CONTROL SU VEOUS ACTS, CONDITION T - ROTOR ASSEMBLIE VEOUS ACTS, CONDITION RIVATE HELICOPTER RA R.SUSITNA LODG, ALAS	RFACES: HORIZONTAL 3 IS - FATIGUE FRACTU S: TAIL ROTOR BLADE: IS - OVERLOAD FAILUR TING.RT STABILIZER 3 BELL 4763B1	STABIL RE Spar Ti CR- PX-	U 88 0	FA	0 1	D.STABILIZER BROKE OFF SI	COMMERCIAL, FL.INSTR., Age 40, 3600 Total Hours 400 In Type, Not Instru-
3-2300	MISCELLAN AIRFRAME MISCELLAN ROTORCRAF MISCELLAN REMARKS- PP 8/15/68 NR	VEOUS ACTS,CONDITION - FLIGHT CONTROL SU VEOUS ACTS,CONDITION T - ROTOR ASSEMBLIE VEOUS ACTS,CONDITION RIVATE HELICOPTER RA R.SUSITNA LODG,ALAS CIDENT	RFACES: HORIZONTAL : IS - FATIGUE FRACTUI S: TAIL ROTOR BLADE: IS - OVERLDAD FAILURI TING.RT STABILIZER : BELL 47G3B1 N68645	STABIL RE Spar Ti CR- PX-	0 0	FA 1 1		D.STABILIZER BROKE OFF ST	CONMERCIAL, FL.INSTR., Age 40, 3600 Total Hours,
3-2300	MISCELLAN AIRFRAME MISCELLAN ROTORCRAF MISCELLAN REMARKS- PP 8/15/68 NR TIME - 0830 TYPE OF ACC ROLL OVER PROBABLE C/ PILOT IN WEATHER - WEATHER BRJ	VEOUS ACTS, CONDITION - FLIGHT CONTROL SU VEOUS ACTS, CONDITION T - ROTOR ASSEMBLIE VEOUS ACTS, CONDITION RIVATE HELICOPTER RA R.SUSITNA LODG, ALAS CIDENT AUSE	RFACES: HORIZONTAL IS - FATIGUE FRACTU IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR ING.RT STABILIZER BELL 47G3B1 N68645 DAMAGE-SUBSTANTIAL IN-FLIGHT DECISIONS ONDITIONS RECEIVED	STABIL RE SPAR TI CR- PX-	0 0 0	E FA 1 1 PHAS LA		D.STABILIZER BROKE OFF ST COMMERCIAL AIR TAXI-PASSG F OPERATION	COMMERCIAL, FL.INSTR., Age 40, 3600 total Hours 400 in type, not instru-
3-2300	MISCELLAN AIRFRAME MISCELLAN ROTORCRAF MISCELLAN REMARKS- PF 8/15/68 NR TIME - 0800 TYPE OF ACCO ROLL OVER PROBABLE C/ PILOT IN WEATHER BRI WEATHER BRI WEATHER FOR SKY CONDITI UNKNOWN/F VISIBILITY	VEOUS ACTS, CONDITION - FLIGHT CONTROL SU VEOUS ACTS, CONDITION T - ROTOR ASSEMBLIE VEOUS ACTS, CONDITION RIVATE HELICOPTER RA R.SUSITNA LODG, ALAS CIDENT AUSE COMMAND - IMPROPER - UNFAVORABLE WIND C VEFING - NO BRIEFING RECAST - UNKNOWN/NOT ION NOT REPORTED AT ACCIDENT SITE	RFACES: HORIZONTAL IS - FATIGUE FRACTU IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR ING.RT STABILIZER BELL 47G3B1 N68645 DAMAGE-SUBSTANTIAL IN-FLIGHT DECISIONS ONDITIONS RECEIVED	STABIL RE SPAR TI CR- PX-		E FA 1 1 Phas La NING 65 Prec	ILE 0 1 E OI NDII	D.STABILIZER BROKE OFF ST COMMERCIAL AIR TAXI-PASSG F OPERATION	COMMERCIAL, FL.INSTR., Age 40, 3600 Total Hours 400 In Type, Not Instru-
3-2300	MISCELLAN AIRFRAME MISCELLAN ROTORCRAF MISCELLAN REMARKS- PF 8/15/68 NR TIME - 0800 TYPE OF ACCO ROLL OVER PROBABLE C/ PICOT IN WEATHER BRI WEATHER BRI WEATHER BRI WEATHER FOR SKY CONDITI UNKNOWN// VISIBILITY 5 OR OVER	VEOUS ACTS, CONDITION - FLIGHT CONTROL SU VEOUS ACTS, CONDITION T - ROTOR ASSEMBLIE VEOUS ACTS, CONDITION RIVATE HELICOPTER RA R.SUSITNA LODG, ALAS CIDENT AUSE COMMAND - IMPROPER - UNFAVORABLE WIND C VEFING - NO BRIEFING RECAST - UNKNOWN/NOT ION NOT REPORTED AT ACCIDENT SITE	RFACES: HORIZONTAL IS - FATIGUE FRACTU IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR IS - OVERLOAD FAILUR BELL 47G3B1 N68645 DAMAGE-SUBSTANTIAL IN-FLIGHT DECISIONS IN-FLIGHT DECISIONS IN-FLIGHT DECISIONS RECEIVED REPORTED	CR- PX-		FA 1 1 PHASS LA VING EIL5 PRECO PRECO NO FEMP 50	ILE 0 1 E OI NDII ING IPI ERA	D.STABILIZER BROKE OFF ST COMMERCIAL AIR TAXI-PASSG F OPERATION NG3 LEVEL OFF/TOUCHDOWN AT ACCIDENT SITE	COMMERCIAL, FL.INSTR., Age 40, 3600 Total Hours 400 In Type, Not Instru-

FILE	DATE	LOCATION	AIRCRAFT DATA				S M/N	FLIGHT PURPOSE	PILOT D'ATA	
3-2335	2/25/68 TIME - 1810	SAN ANTONIO, TEX	BELL-CARSON C-4 N614X DAMAGE-SUBSTANTIAL					COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., Age 36, 2455 TOTAL HOURS, 76 IN TYPE, NOT INSTRUMEN RATED.	
		RPORT - SAN ANTONÍO) INTL							
	TYPE OF ACC AIRFRAME	FAILURE: IN FLIGHT						IF OPERATION IGHT: HOVERING		
	COLLISON	WITH GROUND/WATER:	UNCONTROLLED			I	N FL	IGHT: UNCONTROLLED DESCEN	т	
	MISCELLAN	T - MISCELLANEOUS HEOUS ACTS,CONDITIC - MAINTENANCE,SER	UNITS AND ASSEMBLIES NS - CORRODED/CORROS VICING,INSPECTION: IN	(ON				LONS/CONES		
			F TUBING,DUE TO INTER	NAL P	US	Τ.• Α	CFT	A CONVERSION, UNKNOWN TOTA	L TIME ON AIRFRAME	
3-2337	5/10/68	MILWAUKEE, WIS	ENSTROM F-28	CR-	٥	G	2	INSTRUCT IONAL	COMMERCIAL, FL.INSTR.,	
	TIME - 0745		N4462 DAMAGE-SUBSTANTIAL	PX-	Ō	Ō	ō	DUAL	AGE 31, 7500 TOTAL HOURS 132 IN TYPE, NOT INSTRU- MENT RATED.	
	NAME OF AIRPORT - GENERAL MITCHELL									
	TYPE OF ACC PROPELLEF	CIDENT R/ROTOR FAILURE: TA	IL ROTOR					OF OPERATION IGHT: NORMAL CRUISE		
	MISCELLAN	T - ROTOR ASSEMBLI	ES: TAIL ROTOR BLADE: DNS - FATIGUE FR A CTUR							
	EMERGENCY (IRCUMSTANCES - FOR	DNS - SEPARATION IN F CED LANDING OFF AIRPO FED DUE TO ROTOR SPIN	DRT ON				IDED WITH NO FURTHER DAMAG	E∙	
3-2338	6/25/68 TIME - 1510	NEW YORK CITY,NY }	BRANTLY 305 N2223U DAMAGE-DESTROYED					COMMERCIAL OTHER	COMMERCIAL, AGE 24, 1695 TOTAL HOURS, 21 IN TYPE, NOT INSTRUMENT RATED.	
		RPORT - MIDTOWN								
	TYPE OF ACC MISCELLAN							DF OPERATION DFF: INITIAL CLIMB		
		WITH: OBJECT						DFF: INITIAL CLIMB		
	PROBABLE CA	COMMAND - INADEQUA	ATE PREFLIGHT PREPARA DNS - IMPROPERLY LOAD							
	MISCELLA		1 C C C C C C C C C C C C C C C C C C C							
	MISCELLAN FACTOR MISCELLAN	NEOUS ACTS, CONDITIE	DNS - AIRCRAFT CAME TO PROX 45LB OVERWEIGHT,					<pre> .IMIT,SETTLED,STRUCK EDGE .IMIT,SETTLED,STRUCK EDGE</pre>	PIER,SANK IN RIVER	

FILE		LOCATION	AIRCRAFT DATA	١١	IJUR F	S M	/N	FLIGHT PURPOSE	PILOT DATA
3-2339	6/30/68 TIME - 11	RALEIGH,NC	BENSEN HATCH N1253 DAMAGE-SUBSTANTIAL	CR- PX-	0 0	1 0	0 0	NONCOMMERCIAL PLEASURE	STUDENT, AGE 39, 17 TOTAL Hours, All In Type, Not Instrument Rated.
	NAME OF A Type of a Roll ov		IRHAM		P	HAS	EO	F OPERATION NG: ROLL	
	PROBABLE PILOT I		R OPERATION OF FLIGHT	CONTR	OLS	5			
3-2340	7/1/68 TIME - 17	GENEVA,FLA 30	BENSEN H-1 N3324 Damage-Substantial	CR- PX-	0 0	0	1 0	NONCOMMERCIAL Pleasure	PRIVATE, AGE 41, 167 Total Hours, all In Type, not instrument Rated.
	NAME OF A Type of a Engine Roll ov		ION			IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: ROLL	
	AIRPORT COMPLETE EMERGENCY	ANT - ENGINE STRUCT S/AIRWAYS/FACILITIE POWER LOSS - COMPLE CIRCUMSTANCES - FO	URE: PISTION,PISTON R S - AIRPORT CONDITION TE ENGINE FAILURE/FLAI RCED LANDING ON AIRPOO IN CYL,CAUSE UNDETERM	S: OTH MEOUT- RT/SEA	1 E	NE	BAS	E/HELIPT. Rough terrain off RNWY	AT ABANDONED ARPT.
3-2341	7/6/68 TIME - 12	WIS.DELLS,WIS	BELL 47G-2 N2866B DAMAGE-SUBSTANTIAL	CR- PX-	0 0	0 0	1 2	COMMERCIAL OTHER	COMMERCIAL, FL.INSTR., AGE 26, 1593 TOTAL HOURS 446 IN TYPE, NOT INSTRU- MENT RATED.
	NAME OF A Type of a Colliso	IRPORT - MC BOYLE D CCIDENT N WITH GROUND/WATER	ELLS : UNCONTROLLED		P	HAS IN	E O FL	F OPERATION IGHT: HOVERING	
	MISCELL	N COMMAND - INADEQU ANEOUS ACTS,CONDITI	ATE PREFLIGHT PREPARAT ONS - IMPROPERLY LOAD ONS - LATERAL IMBALAN(ED AIR					
	MISCELL	ANEOUS ACTS,CONDITI LOCAL SIGHTSEEING F) FLT,	10-	·17K	, CA	BIN WEIGHT 60 LBS OVER	LIMIT.

PILOT DATA
COMMERCIAL, AGE 40, 794 TOTAL HOURS, 1500 IN TYPE, NOT INSTRUMENT RATED.
ELANDING
STS HEMICAL-NONTOXIC T - 8000
PRIVATE, AGE 29, 189 Total Hours, 34 IN TYPE Not Instrument Rated.
E LANDING E LANDING

PAGE 46

FILE	DATE LOCAT			F :	S M/	N	FLIGHT PURPOSE	PILOT DATA
3-2344	7/14/68 LAKEVIEW, TIME - 0730		CR- PX-				COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 26, 1542 TOTAL HOURS, IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT Collided with: Croi						F OPERATION IGHT: SWATH RUN	
	PROBABLE CAUSE PILOT IN COMMAND -	MISJUDGED CLEARANCE						
	KIND OF CROP - POT PILOT'S SEAT BELT - GOGGLES - NOT USED COCKPIT CRASHPAD - TANK/HOPPER-LOCATI ELEVATION-AREA BEI	P CONTROL - UNKNOWN/NOT REPOR ATOES - FASTENED-PROPERLY NOT INSTALLED DN - AFT OF PILOT NG TREATED-FEET - 850 GLED IN POTATO VINES.		T G	YPE LOVE	ОF S	OPERATION - SPAYING (CHEMICAL USED - LIQU - USED ELMET - AVAILABLE-USE(AR - NOT INSTALLED -TYPE - LEVEL,FLAT UN-HOW FLOWN - UPWIND	ID CHEMICAL-NONTOXIC
3-2360	7/25/68 ONAWA,IOW/ TIME - 1223	A HUGHES 269A N8841F DAMAGE-SUBSTANTIAI		0 0	0 0	1 1	COMMERCIAL Assoc crop ctl activi	COMMERCIAL, AGE 30, 1450 ITIE TOTAL HOURS, 89 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPORT - ON TYPE OF ACCIDENT ENGINE FAILURE OR I HARD LANDING	,			LAN	DI	F OPERATION NG: FINAL APPROACH NG: POWER-OFF AUTOROT/	ATIVE LANDING
	MISCELLANEOUS ACTS PILOT IN COMMAND - COMPLETE POWER LOSS -	INADEQUATE PREFLIGHT PREPARA CONDITIONS - FUEL EXHAUSTION IMPROPER OPERATION OF FLIGH - COMPLETE ENGINE FAILURE/FL/ CES - FORCED LANDING OFF AIR	N T CONTR AMEOUT-	ROLS	NGIN		NNING	
3-2365	6/21/68 CROCKER,MI TIME - 1915	D BELL 47G-2A N8484e DAMAGE-SUBSTANTIAI	PX-	0 0	0 0	1 0	COMMERCIAL AERIAL APPLICATION	AGE 38, 1541 TOTAL HOURS, 1260 IN TYPE, NOT INSTRU-
	TYPE OF ACCIDENT Collided with: wir						F OPERATION IGHT: SWATH RUN	MENT RATED.
	PROBABLE CAUSE PILOT IN COMMAND -	FAILED TO SEE AND AVOID OBJE	ECTS OF	R 08	STRU	ст	IONS	
	TYPE OF CHEMICAL U	P CONTROL - 1000 SED - LIQUID CHEMICAL-NONTOX NG TREATED-FEET - 800	10	T	ANK /	но	OPERATION - DEFOLIAT PPER-LOCATION - AFT ON UN-HOW FLOWN - WIND C/	FPILOT

· •••

DATE LOCATION	AIRCRAFT DATA					FLIGHT PURPOSE		PILOT DATA
	N4735S DAMAGE-SUBSTANTIAL	PX-	0	0 PHAS TA	0 E C KÉC	ASSOC CROP F OPERATION FF: INITIAL	CTL ACTIVITIE	NOT INSTRUMENT RATED.
MISCELLANEOUS ACTS, CON PILOT IN COMMAND - IMP COMPLETE POWER LOSS - CO	DITIONS - FUEL EXHAUSTION ROPER OPERATION OF FLIGHT MPLETE ENGINE FAILURE/FLAM	CONTRO)LS . E	NGI		NNING		
KIND OF CROP - CORN PILOT'S SEAT BELT - FA GOGGLES - NOT USED COCKPIT CRASHPAD - NOT TANK/HOPPER-LOCATION -	STENED-PROPERLY INSTALLED SIDES		G C C	YPE COV RAS RAS	OF ES H F H B	CHEMICAL U. - NOT USED ELMET - AVA	SED – LIQUID (ILABLE-USED STALLED	
	N9460F DAMAGE-SUBSTANTIAL DEQUATE PREFLIGHT PREPARAT	PX-	0 P	0 PHAS TA LA VOR	1 E C KEC NDI PLA	PLEASURE DF OPERATION DFF: INITIAL NG: POWER-O	CLIMB	PRIVATE, AGE 56, 1000 TOTAL HOURS, 500 IN TYPE, NOT INSTRUMENT RATED.
WEATHER - HIGH DENSITY WEATHER BRIEFING - NO BR	ALTITUDE IEFING RECEIVED	ROTOR R	ι., F	°• M•				
SKY CONDITION CLEAR VISIBILITY AT ACCIDENT S 5 OR OVER	ITE		F	UN PREC NO	LIN IPI NE	AITED		
	7/23/68 GUCKEEN,MINN FIME - 0630 FIME - 0630 FYPE OF ACCIDENT ENGINE FAILURE OR MALF HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - INA MISCELLANEOUS ACTS,CON PILOT IN COMMAND - IMP COMPLETE POWER LOSS - CO CMERGENCY CIRCUMSTANCES SPECIAL DATA TOTAL HOURS IN CROP CO KIND OF CROP - CORN PLOT'S SEAT BELT - FA GOGGLES - NOT USED COCKPIT CRASHPAD - NOT TANK/HOPPER-LOCATION - ELEVATION-AREA BEING T T/25/68 BUFFALO,WYO TIME - 1130 TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - INA PILOT IN COMMAND - NO BR WEATHER FORECAST - UNKNO	DATE LOCATION AIRCRAFT DATA AIRCRAFT DATA PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARAT MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARAT MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAM EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPO 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 AMAGE-SUBSTANTIAL TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARAT PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARAT PILOT IN COMMAND - NO BRIEFING RECEIVED MEATHER BRIEFING - NO BRIEFING RECEIVED MEATHER BRIEFING - NO BRIEFING RECEIVED MEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION CLEAR VISIBILITY AT ACCIDENT SITE	F 2/23/68 GUCKEEN,MINN BELL 47G-2 CR- FIME - 0630 N4735S PX- DAMAGE-SUBSTANTIAL DAMAGE-SUBSTANTIAL FVPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AN MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTRC COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON 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 7/25/68 BUFFALO,WYO HUGHES 269B CR- TIME - 1130 N9460F PX- DAMAGE-SUBSTANTIAL TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AN PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR F MEATHER - HIGH DENSITY ALTITUDE	DATE LOCATION AIRCRAFT DATA INJUR F C/23/68 GUCKEEN,MINN BELL 47G-2 CR- 0 FIME - 0630 N4735S PX- 0 DAMAGE-SUBSTANTIAL TYPE OF ACCIDENT F ENGINE FAILURE OR MALFUNCTION HARD LANDING PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/ MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 E EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LA SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 100 K KIND OF CROP - CORN T PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED CONTROL TANK/HOPPER-LOCATION - SIDES ELEVATION-AREA BEING TREATED-FEET - 1001 7/25/68 BUFFALO,WYO HUGHES 269B CR- 0 TIME - 1130 N9460F PX- 0 DAMAGE-SUBSTANTIAL F PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/ PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/ PILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.S WEATHER - HIGH DENSITY ALTITUDE WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER BRIEFING - NO BRIEFING RECEIVED WEATHER FORECAST - UNKNOWN/NOT REPORTED SKY CONDITION CONTAND - SIDES SKY CONDITION CONTAND - SIDE SKY SCONDING SKY CONDITION SITE	F S M. 5/23/68 GUCKEEN,MINN BELL 476-2 CR-0 0 TIME - 0630 N4735S PX-0 0 DAMAGE-SUBSTANTIAL PHAS ENGINE FAILURE OR MALFUNCTION TAI HARD LANDING LAI PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR I MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGIN ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LAND SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 100 KIND KIND OF CROP - CORN TYPE PILOT'S SEAT BELT - FASTENED-PROPERLY GLOV GOGGLES - NOT USED CRAS COCKPIT CRASHPAD - NOT INSTALLED CRAS TANK/HOPPER-LOCATION - SIDES TERR ELEVATION-AREA BEING TREATED-FEET - 1001 TAR TYPE OF ACCIDENT PHAS MISCELLANEOUS TA ROLL OVER TA PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PHAS	F S M/N 5/23/68 GUCKEEN,MINN BELL 47G-2 CR- 0 0 FIME - 0630 N4735S PX- 0 0 0 FYPE OF ACCIDENT PHASE C C AAAGE-SUBSTANTIAL PROBABLE CAUSE PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLA MISCELLANEOUS ACTS, CONDITIONS - FUEL EXHAUSTION HARD LANDI PROBABLE CAUSE PILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLS COMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINE EMERGENCY CIRCUMSTANCES - FORCED LANDING DFF AIRPORT ON LAND SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 100 KIND OF FILOT'S SEAT BELT - FASTENED-PROPERLY GLOVES GOGGLES - NOT USED CRASH CRASH TOTAL HOURS IN CROP CONTROL - SIDES TERRAIN ELEVATION-AREA BEING TREATED-FEET - 1001 DAMAGE-SUBSTANTIAL 7/25/68 BUFFALD,WYO HUGHES 2698 CR- 0 1 TIME - 1130 N9460F PX- 0 1 TIME - 1130 N9460F PX- 0 1	FSM/NPURPOSE6/23/68GUCKEEN,MINNBELL 47G-2CR-001COMMERCIALITME - 0630N47355PX-000ASSOC CROPDAMAGE-SUBSTANTIALPHASE OF OPERATIONPRASE OF OPERATIONPRASE OF OPERATIONPRASE OF OPERATIONINADEQUATE PREFLIGHT PREPARATION AND/OR PLANNINGIANDING: POWER-0POWER-0PROBABLE CAUSEPILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNINGIANDING: POWER-0PROBABLE CAUSEOWER OPERATION OF FLIGHT CONTROLSSOMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINECOMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINEEMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LANDSPECIAL DATATOTAL HOURS IN CROP CONTROL - 100KIND OF OPERATIONKIND OF CROP - CORNTYPE OF CHEMICAL UGLOVES - NOT USEDCOCKPIT CRASHPAD - NOT INSTALLEDCRASH HELMET - AVACOCKPIT CRASHPAD - NOT INSTALLEDCRASH MEAR - NOT INTANK/HOPPER-LOCATION - SIDESTERRAIN-TYPE - LEVELEVATION-AREA BEING TREATED-FEET - 1001TAKEOFF: INITIALTYPE OF ACCIDENTMAGE-SUBSTANTIALMISCELLANEOUSTAKEOFF: INITIALROLL OVERDAMAGE-SUBSTANTIALPREDENTPHASE OF OPERATIONPROLATIONSPECIAL DAMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNINGPILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNINGPILOT IN COMMAND - FAILED TO MAINTAIN ADEQUATE ROTOR R.P.M.WEATHER BRIFING NO BRIEFING RECEIVEDWEATHER BRIFING NO BRIEFI	FSM/NPURPOSE/23/68GUCKEEN,MINNBELL 476-2CR-001COMMERCIAL/1ME - 0630N4735SPX-00ASSOC CROP CTL ACTIVITIEDAMAGE-SUBSTANTIALDAMAGE-SUBSTANTIALPHASE OF OPERATIONFACLOP CTL ACTIVITIEIYPE OF ACCIDENTPHASE OF OPERATIONFALSE OF OPERATIONTAKEOFF: INITIAL CLIMBHARD LANDINGDR MALFUNCTIONTAKEOFF: INITIAL CLIMBLANDING: POWER-OFF AUTOROTATIVYROBABLE CAUSEPILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNINGNISTERPILOT IN COMMAND - IMPROPER OPERATION OF FLIGHT CONTROLSSOMPLETE POWER LOSS - COMPLETE ENGINE FAILURE/FLAMEOUT-1 ENGINEMERGENCY CIRCUMSTANCES - FORCED LANDING OFF AIRPORT ON LANDSPECIAL DATATOTAL HOURS IN CROP CONTROL - 100KIND OF OPERATION - SPAYING CROPSPECIAL DATATOTAL HOURS IN CROP CONTROL - 100KIND OF OPERATION - SPAYING CROPTOTAL HOURS IN CROP CONTROL - 100KIND OF OPERATION - SPAYING CROPSPECIAL DATATOTAL HOURS IN CROP CONTROL - 100CRASH HELMET - AVAILABLE-USEDCOCKPIT CRASHPAD - NOT INSTALLEDCRASH HELMET - AVAILABLE-USEDTANK/HOPPER-LOCATION - SIDESTERRAIN-TYPE - LEVEL,FLATTIME - 1130N9460FPX-01TYPE OF ACCIDENTDAMAGE-SUBSTANTIALPHASE OF OPERATIONTMSCELLANEOUSDAMAGE-SUBSTANTIALPHASE OF OPERATIONTYPE OF ACCIDENTMS460FPX-01TYPE OF ACCIDENTDAMAGE-SUBSTANTIALPHASE OF OPERATIONTYPE OF ACCIDENT </td

			BRIEF	S OF A	ACC 1	IDEN	rs			
FILE	DATE	LOCATION	AIRCRAFT DATA		F	SM	/N			PILOT DATA
		GARDEN CITY,KANS	BELL 47G	CR- PX-	0	0	1	COMMERCIAL ASSOC CROP C		COMMERCIAL, FL.INSTR., AGE 34, 7348 TCTAL HOURS, 684 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF A Engine Hard La	FAILURE OR MALFUNCTIO	DN .			IN	FL	IF OPERATION IGHT: RETURN NG: POWER-OFF		-
	MISCELL PILOT I COMPLETE	CAUSE N COMMAND - INADEQUA ANEGUS ACTS,CONDITIO N COMMAND - IMPROPER POWER LOSS - COMPLETI CIRCUMSTANCES - FOR	NS - OIL EXHAUSTION- OPERATION OF FLIGHT E ENGINE FAILURE/FLA	ENGINI CONTI MEDUT-	E LL ROLS -1 E	UBRI S ENGI	CAT			
3-2390	6/4/68 TIME - 15	RICHMOND,ILL 30	HUGHES 269A N8873F DAMAGE-SUBSTANTIAL	PX-				COMMERCIAL AERIAL APPLI		COMMERCIAL, AGE 43, 4000 TOTAL HOURS, 1875 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A ENGINE HARD LA	FAILURE OR MALFUNCTI	אכ			IN	FL	DF OPERATION IGHT: PROCEDU NG: LEVEL OFF		
	MISCELL PILOT I COMPLETE	CAUSE N COMMAND - INADEQUA ANEOUS ACTS,CONDITIO N COMMAND - IMPROPER POWER LOSS - COMPLET CIRCUMSTANCES - FOR	NS - FUEL EXHAUSTION OPERATION OF FLIGHT E ENGINE FAILURE/FLA	CONTI MEQUT-	ROL!	S ENG I		NNING		
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HO ELEVATI	ATA DURS IN CROP CONTROL CROP - PEAS SEAT BELT - FASTENE - USEO CRASHPAD - NOT INST PPER-LOCATION - SIDE ON-AREA BEING TREATE RE TURNAROUND - THIR	D-PROPERLY Alled S D-FEET - 875		1 (((1	TYPE GLOV CRAS CRAS TERR	OF ES H F H E AIN	OPERATION - CHEMICAL USE - NOT USED IELMET - AVAIL BAR - NOT INST -TYPE - LEVEL RUN-HOW FLOWN	D - LIQUID CH ABLE-USED ALLED •FLAT	

			BRIEF	S OF /	VCC1	ID	ENT	s		
FILE		LOCATION	AIRCRAFT DATA	, II			ES M/		FLIGHT PURPOSE	PILOT DATA
	7/21/68 TIME - 140 NAME OF AI TYPE OF AC HARD LAN ROLL OVE	CULVER CITY,CALIF O RPORT - HUGHES CIDENT DING R		CR- PX-	0	PH	G ASE LAN	OF DING	NSTRUCTIONAL RAINING OPERATION : POWER-OFF AUTOROTAT : POWER-OFF AUTOROTAT	
	PILOT IN PILOT IN FACTOR PERSONNE	NEOUS ACTS,CONDITIO COMMAND - IMPROPER COMMAND - ATTEMPTE L - FLIGHT INSTRUCT	NS - SIMULATED CONDI OPERATION OF FLIGHT D OPERATION BEYOND E OR: INADEQUATE TRAIN 3FT HOVERING AUTOROT	CONTR XPERIE	ENCE = ST	E/ TU	DEN	т	LEVEL	NIQUE.
-2420	7/22/68 TIME - 100	LAZBUDDIE,TEX 0	HUGHES 269B N9452F DAMAGE-DESTROYED	С R Р X	0		1 0	0 C 0 A	COMMERCIAL Verial Application	COMMERCIAL, FL.INSTR., Age 24, 1300 total hours All in type, not instru- Ment rated.
	TYPE OF AC ENGINE F HARD LAN	AILURE OR MALFUNCTI	ON		. 1		ΙN	FLIG	OPERATION GHT: PROCEDURE TURNARC S: POWER-OFF AUTOROTAT	JUND
	MISCELLA PILOT IN COMPLETE P	NT - ENGINE STRUCTU NEOUS ACTS,CONDITIO COMMAND - IMPROPER OWER LOSS - COMPLET	RE: MASTER AND CONNE NS - MATERIAL FAILUR OPERATION OF FLIGHT E ENGINE FAILURE/FLA CED LANDING OFF AIRP	E CONTR MEOUT-	ROLS -1	S EN	IGIN	E		
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HOP ELEVATIO PROCEDUR	TA URS IN CROP CONTROL CROP - GRAIN FIELDS SEAT BELT - FASTENE - NOT USED CRASHPAD - NOT INST 'PER-LOCATION - SIDE IN-AREA BEING TREATE E TURNAROUND - THIR ONNECTION OF NO.	D-PROPERLY ALLED S D-FEET - 3800 D 1/3 OF TURN			TY GL CR CR TE	PE OVE ASH ASH RRA	OFC S- HEL BAR IN-T	DPERATION - SPAYING CF HEMICAL USED - LIQUIO NOT USED MET - AVAIALABLE-NOT N- NOT INSTALLED IYPE - LEVEL,FLAT N-HOW FLOWN - CROSSWIM	D CHEMICAL-TOXIC USED

REMARKS- CONNECTING RCD, NO 4 CYL.

FILE		AIRCRAFT DATA	F S M/N	FLIGHT PURPOSE	PILOT DATA
 3-2477	6/25/68 KING CITY, MO TIME - 0630 TYPE OF ACCIDENT COLLIDED WITH: WIRES/F		CR- 0 1 0 PX- C C 0 PHASE OF	COMMERCIAL AERIAL APPLICATION OPERATION GHT: PULLUP FROM SWA	COMMERCIAL, AGE 31, 1200 TOTAL HOURS, 240 IN TYPE, NOT INSTRUMENT RATED. TH RUN
	PROBABLE CAUSE PILOT IN COMMAND - MIS	JUDGED CLEARANCE			
	SPECIAL DATA TOTAL HOURS IN CROP CO KIND OF CROP - OTHER PILOT'S SEAT BELT - FA GOGGLES - NOT USED COCKPIT CRASHPAD - NOT TANK/HOPPER-LOCATION - ELEVATION-AREA BEING T REMARKS- WEED/BRUSH CONT	STENED-PROPERLY INSTALLED AFT OF PILOT REATED-FEET - 1100	TYPE OF	OPERATION - DEFOLIAT CHEMICAL USED - LIQU • NOT USED LIMET - NOT AVAILABLE R - NOT INSTALLED •TYPE - ROLLING IN-HOW FLOWN - CROSSW	ID CHEMICAL-TOXIC
3-2501	7/26/68 MARINA DEL RA TIME - C850	Y,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 INSTRU- MENT RATED.
	NAME OF AIRPORT - HUGHES TYPE OF ACCIDENT COLLISON WITH GROUND/W	ATER: UNCONTROLLED		OPERATION	SCENT
	DUAL STUDENT - IMPROPE DUAL STUDENT - FAILED PILOT IN COMMAND - INA	DITIONS - SIMULATED CONDI R OPERATION OF FLIGHT CON TO MAINTAIN ADEQUATE ROTO DEQUATE SUPERVISION OF FL ASSURE ROTOR RPM WAS MAI	NTROLS Dr r.p.m. .ight	PRACTICE AUTOROTATION	•
3-2502	7/26/68 LEESBURG,VA TIME - 1447	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	DAHAGE DESTROYED	PHASE OF UNKNOW	OPERATION N/NOT REPORTED	
	PROBABLE CAUSE MISCELLANEOUS - UNDETE FACTOR PILOT IN COMMAND - ATT FIRE AFTER IMPACT	RMINED EMPTED OPERATION BEYOND E	XPERIENCE/ABILI	Y LEVEL	

			BRIEF	S OF AC	:c1	DEN	TS					
FILE	DATE	LOCATION	AIRCRAFT DATA					FLIGHT PURPOSE	PILOT DATA			
3-2596	8/1/68 TIME - 04	CENTERVILLE,CALIF 445	HILLER UH-12B N5301V DAMAGE-SUBSTANTIAL	PX-	0 0	0	1 C	COMMERCIAL ASSOC CROP CTL ACTIVITI	COMMERCIAL, AGE 42, 6107 E TOTAL HOURS, 5607 IN TYPE, NOT INSTRUMENT RATED.			
	NAME OF AIRPORT - AG STRIP TYPE OF ACCIDENT ENGINE FAILURE OR MALFUNCTION HARD LANDING PHASE OF OPERATION IN FLIGHT: EN ROUTE TO TREAT CROP LANDING: POWER-OFF AUTOROTATIVE LANDING											
	MISCELI PILOT FACTOR TERRAIN PARTIAL	CAUSE LANT - ENGINE STRUCTUF LANEOUS - FOREIGN MATE IN COMMAND - IMPROPER N - WET,SOFT GROUND POWER LOSS - PARTIAL Y CIRCUMSTANCES - FORC	ERIAL AFFECTING NORM. OPERATION OF FLIGHT .CSS OF POWER - 1 EN	AL OPER Contro Gine	DLS	;	IS					
	SPECIAL TOTAL I KIND OI GLOVES CRASH I CRASH I TERRAII SWATH I REMARKS-	ED.PAR1	T G C T E	Y PE OGO OCK ANK	OF LES PIT /HC /ATI	OPERATION - SPAYING CRO CHEMICAL USED - LIQUID CASHPAD - NOT INSTALLE OPER-LOCATION - SIDES ON-AREA BEING TREATED-FE	CHEMICAL-NONTOXIC D EET - 1000					
3-2616		NEWPORT,PA 800	BELL 47G-4 N1165W DAMAGE-SUBSTANTIAL		0	C C	1 0	COMMERCIAL ASSOC CROP CTL ACTIVIT)	COMMERCIAL, FL.INSTR., E AGE 35, 2000 TOTAL HOURS, 1000 IN TYPE, NOT INSTRU- MENT RATED.			
	TYPE OF COLLID	ACCIDENT ED WITH: WIRES/POLES						F OPERATION FF: INITIAL CLIMB	MENT RATED.			
	PROBABLE PILOT	CAUSE IN COMMAND - FAILED TE	SEE AND AVOID OBJE	CTS OR	69	STF	UCT	TONS				
	KIND O PILOT GOGGLE Cockpi Tank/H Swath	DATA HOURS IN CROP CONTROL F CROP – OTHER S SEAT BELT – FASTENEI S – NOT USED T CRASHPAD – NOT INSTA OPPER-LOCATION – SIDES RUN-HOW FLOWN – WIND (DEPARTED TEMPORARY HE	D-PROPERLY ALLED S		T G C C T	YPE GLOV CRAS CRAS	OF ES H F H B	OPERATION - DEFOLIATION CHEMICAL USED - LIQUID - NOT USED HELMET - AVAILABLE-USED JAR - NOT INSTALLED HTYPE - ROLLING				

			BRIEF	5 OF /	ACCI	IDE	NTS			
FILE		LOCATION	AIRCRAFT DATA				S M/N		PILOT DATA	
		NTERIOR, S DAK	BELL 47G-2	PX-				COMMERCIAL MAPPING/PHOTO	COMMERCIAL, FL.INSTR., AGE 28, 814 TOTAL HOURS, 222 IN TYPE, NOT INSTRU- MENT RATED.	
	TYPE OF ACCI MISCELLANE ROLL OVER				MENT KATED. PHASE OF OPERATION IN FLIGHT: HOVERING LANDING: LEVEL OFF/TOUCHDOWN					
		OMMAND - IMPROPER	OPERATION OF FLIGHT IN CONTROL OF ACFT I							
3-2658	8/3/68 N. TIME - 0640	, TONAWANDA, NY	HUGHES 269A N8759F DAMAGE-SUBSTANTIAL	PX-				MISCELLANEOUS FERRY	COMMERCIAL, AGE 22, 526 Total Hours, 200 in type, Not instrument rated.	
	TYPE OF ACCI Engine fai Hard Landin	LURE OR MALFUNCTIO						DF OPERATION .IGHT: NORMAL CRUISE ING: POWER-OFF AUTOROTA		
	PILOT IN CO PILOT IN CO COMPLETE POWO EMERGENCY CID	+ ROTOR ASSEMBLIE DMMAND - FAILED TO DMMAND - IMPROPER ER LOSS - COMPLETE RCUMSTANCES - FOR) MAINTAIN ADEQUATE OPERATION OF FLIGHT ENGINE FAILURE/FLAN ED LANDING OFF AIRPO	CONTI 1EOUT- DRT DI	ROLS -1 E N LA	S ENG AND	INE	JSED BELTS TO COME LOOS	E AND LOSS OF ENG RPM	
3-2729	8/4/68 TU TIME - 1800	JRNERS FALL,MASS	BENSEN B−8M N8200 DAMAGE-DESTROYED					INSTRUCTIONAL TRAINING	STUDENT, AGE 17, 12 TOTAL Hours, 5 in type, not Instrument rated.	
	TYPE OF ACCI	DRT - TURNERS FALL DENT ITH GROUND/WATER:						DF OPERATION IGHT: UNCONTROLLED DES	CENT	
		DUS - UNDETERMINED		NAS A	S E \	VER	ΕM	OPIC CASE. GLASSES WER	E NOT FOUND.	

FILE	DATE	LOCATION	AIRCRAFT DATA				FLIGHT PURPDSE	PILOT DATA
3-2730	TIME - 0830 N8471E		N8471E DAMAGE-SUBSTANTIAL R: UNCONTROLLED SED POOR JUDGMENT	PX-	о Рн	Ú 1 ASE C LANDI	COMMERCIAL CTR PASSG-D F OPERATION NG: FINAL APPROACH IGHT: UNCONTROLLED D	NOT INSTRUMENT RATED.
	FACTOR WEATHE WEATHER	R - UNFAVORABLE WIN R - HIGH DENSITY AL BRIEFING - NO BRIEF FORECAST - UNKNOWN/	TITUDE ING RECEIVED					
	5 OR O OBSTRUCT NONE	TY AT ACCIDENT SITE VER IONS TO VISION AT A			PR TE	UNLIN ECIPI NONE MPERA 75	TATION AT ACCIDENT S TURE-F	SITE
	315 TYPE OF VFR	ECTION-DEGREES WEATHER CONDITIONS ATTEMPTED LDG ON T	OP OF MT.SETTLED,T/R SI		ΤY	30 PE OF NONE	LOCITY-KNOTS FLIGHT PLAN 30K,GUSTING.DENSITY	Y ALT 1450C FT.

			BRIEFS	cui	DENI	3				
FILE	DATE	LOCATION	AIRCRAFT DATA		RIES S M		FL IGHT PURPOSE			PILOT DATA
3-2734	ROLL OVE PROBABLE C WEATHER FACTOR MISCELLA	CIDENT WITH GROUND/WATER: R		Ō	Ü PHASI TAI		COMMERCIAL ASSOC CROP F OPERATION F: INITIAL NG: LEVEL O	CLI	мв	COMMERCIAL, AGE 56, 6000 TOTAL HOURS, 84 IN TYPE, NOT INSTRUMENT RATED.
	WEATHER FO SKY CONDIT UNKNOWN/ VISIBILITY 5 OR OVE OBSTRUCTIO NONE	NOT REPORTED AT ACCIDENT SITE	T REPORTED	۲ ۲	800 PREC NOI FEMPI 70	00 IPI NE ERA	AT ACCIDEN TATION AT A TURE-F LOCITY-KNOT	CC I D		
	150 TYPE OF WE VFR SPECIAL DA	ATHER CONDITIONS		1	15 TYPE NOT	OF NE	FLIGHT PLA	N		
·	KIND OF PILOT'S GOGGLES COCKPIT TANK/HOP ELEVATIO	IURS IN CROP CONTROL CROP - GRAIN FIELDS SEAT BELT - FASTENE - NOT USED CRASHPAD - NOT INST PPER-LOCATION - SIDE ND-AREA BEING TREATE ACFT SETTLED.TAIL WI	D-PROPERLY ALLED S D-FEET - 4400		CRASI	OF ES H H H B	OPERATION CHEMICAL U - USED ELMET - AVA AR - NOT IN -TYPE - LEV	SED ILAB STAL	- LIQUID CH LE-USED LED	S IEMICAL-TOXIC

			BRIEFS	5 OF					
FILE	DATE	LOCATION	AIRCRAFT DATA	I	NJUR	RIE	s		PILOT DATA
3-2737	8/7/68 TIME - 081	KEYSTONE,S DAK 5	BELL 47G-2 N5163B DAMAGE-SUBSTANTIAL	PX-	0 0	0	1 2	COMMERCIAL OTHER	COMMERCIAL, AGE 29, 1450 Total Hours, all In Type, not instrument Rated.
	TYPE OF AC	AILURE OR MALFUNCT				I	N FL	DF OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTORC	
	MISCELLA POWERPLA MISCELLA PERSONNE PILOT IN COMPLETE P EMERGENCY	NT - ENGINE STRUCTO NEOUS ACTS, CONDITI NT - LUBRICATING S NEOUS ACTS, CONDITIO NEOUS ACTS, CONDITIO NEOUS ACTS, CONDITIO L - MAINTENANCE, SEI COMMAND - IMPROPEO OWER LOSS - COMPLE CIRCUMSTANCES - FOO	JRE: MASTER AND CONNEC JNS - MATERIAL FAILURE /STEM: FILTERS,SCREEN JNS - IMPROPERLY INST/ JNS - OIL STARVATION VICING,INSPECTION: IN VICING,INSPECTION: IN COPERATION OF FLIGHT TE ENGINE FAILURE/FLAP KCED LANDING OFF AIRPU LT.OIL SCREEN INSTALLE	E ALLED APROP CONT MEOUT DRT O	ER M Rols -1 E N LA	AAI S ENG	INE		RSONNEL) DS BROKE-LACK OF OIL.
3-2742	TIME - 162 NAME OF AI TYPE OF AC	20 RPORT - FREEPORT HI	DAMAGE-SUBSTANTIAL ELIPORT	PX-	0 F	0 PHA	0 SE (MISCELLANEOUS TEST DF OPERATION IGHT: HOVERING	COMMERCIAL, AGE 31, 1675 Total Hours, 273 IN TYPE, Not Instrument Rated.
	PROBABLE C ROTORCRA SYSTEMS MISCELLA PERSONNE	AUSE IFT - FLIGHT CONTROL - FLIGHT CONTROL S NEOUS ACTS,CONDITI L - MAINTENANCE,SE	_ SYSTEMS: CYCLIC PIT(YSTEMS: FLIGHT CONTROL	L BOO MPROP	NTRO ST S ER M	DL SYS	SYST TEMS NTEM	TEM 5, HYDRAULIC NANCE (MAINTENANCE PE	
3-2749	8/12/68 TIME - 120	SAN DIEGO,CALIF 95	HUGHES 269A N8899F DAMAGE-SUBSTANTIAL	С R – Р Х_–	0	0	1 2	COMMERCIAL Other	COMMERCIAL, AGE 47, 3695 Total Hours, 44 in type, Not instrument rated.
	TYPE OF AC ENGINE F DITCHING	AILURE OR MALFUNCT				I	N FL	DF OPERATION .IGHT: NORMAL CRUISE ING: POWER-OFF AUTORC	
	FACTOR MISCELLA COMPLETE F EMERGENCY	ANT - MISCELLANEOUS ANEOUS ACTS,CONDITI POWER LOSS - COMPLE CIRCUMSTANCES - FO	: POWERPLANT FAILURE 1 DNS - AIRCRAFT CAME TO FE ENGINE FAILURE/FLAM RCED LANDING OFF AIRP LT.SANK OFF SHORE,MIS:	D RES MEOUT ORT C	T IN →1 E N W/	N W ENG	ATE		

:+

			BRIEF	S OF	ACC	DEN	тs			
FILE	DATE	LOCATION]		RIES S M		FLIGHT PURPOSE		PILOT DATA
		SCOTTSDALE, ARIZ		PX-	- 0 - 0	0 0	1 0	COMMERCIAL ASSOC CROP	CTL ACTIVITIE	COMMERCIAL, AGE 34, 1570 TOTAL HOURS, 158 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC Engine FA Hard Land	AILURE OR MALFUNCTI			1	IN	FL		JTE TO TREAT CE F AUTOROTATIVE	OP
	MISCELLAM PILOT IN COMPLETE PO	COMMAND - INADEQUA NEOUS ACTS,CONDITIO COMMAND - IMPROPER DWER LOSS - COMPLET	TE PREFLIGHT PREPARA NS - WATER IN FUEL OPERATION OF FLIGHT ENGINE FAILURZ/FLA ZED LANDING OFF AIRP	CONT MEOUT	ROLS	S ENGI		NNING		
	KIND OF C PILOT'S S GOGGLES - COCKPIT C TANK/HOPP		ALLED S	TED		TYPE CLOV CRAS CRAS	OF ES H H H B AIN	CHEMICAL US - NOT USED ELMET - AVAI AR - NOT INS -TYPE - LEVE	STALLED	
-2807	8/26/68 TIME - 0600	GLENCOE,MINN	BELL 47G-5 N7870S DAMAGE-SUBSTANTIAL	PX-				MISCELLANEC FERRY	DUS	COMMERCIAL, AGE 32, 4095 TOTAL HOURS, 3525 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC MISCELLAN PROPELLEF		IL ROTOR			IN	FL	F OPERATION IGHT: DESCEN IGHT: DESCEN		KATEU.
	MISCELLAN ROTORCRAF FACTOR MISCELLAN EMERGENCY (NEOUS - FOREIGN OBJ HEOUS ACTS,CONDITION FT - TRANSMISSION R(HEOUS ACTS,CONDITION CIRCUMSTANCES - FOR(DIR)	ECT DAMAGE NS - OVERLOAD FAILUR DTOR DRIVE SYSTEM: TA NS - SEPARATION IN FI SED LANDING OFF AIRP ECTIONAL CONTROL PRO STRIKING M/R.PIECE	AIL F LIGHT DRT C BLEM	IN LA	ND				TOROTATED SAFELY.
-2814	7/27/68 TIME - 1445	PORT WASHNGTN,WIS	ENSTROM F-28A N4462 DAMAGE-DESTROYED					COMMERCIAL OTHER		ATR,FLIGHT INSTR., AGE 31, 7800 TOTAL HOURS, 200 In Type, not instrument Rated.
	TYPE OF ACC HARD LAND				F			F OPERATION NG: POWER-ON	LANDING	NAT LUÐ
	PILOT IN PILOT IN	COMMAND - INADEQUA COMMAND - IMPROPER COMMAND - FAILED TO	TE PREFLIGHT PREPARAT OPERATION OF FLIGHT MAINTAIN ADEQUATE F GPLT TOOK OFF OVER N	CONT ROTOF	ROLS R.F	; • M.) RETURN TO SHO	RE TO LAND.

-

			BRIEF	OF A					
FILE	DATE	LOCATION	AIRCRAFT DATA	IN	JUF F	RIES S M	5 1/N	FLIGHT PURPOSE	PILOT DATA
3-2894	TIME - : TYPE.OF	ACCIDENT LLANEOUS	BELL 47G-2 N6751D DAMAGE-SUBSTANTIAL	PX-	0 0 1	0 0 PHAS T	1 2 5 E (COMMERCIAL AIR TAXI-PASSG DF OPERATION DFF: INITIAL CLIMB ING: LEVEL OFF/TOUCHDOWN	COMMERCIAL, AGE 39, 8050 TOTAL HCURS, 500 IN TYPE, NOT INSTRUMENT RATED.
	PILOT	E CAUSE IN COMMAND - FAILED TO IN COMMAND - IMPROPER - SETTLED INTO BRUSH OM	OPERATION OF FLIGHT						,
3-2897		HOMER,ALAS 1330	BRANTLY B−2 N2124U DAMAGE-DESTROYED					NONCOMMERCIAL Pleasure	PRIVATE, AGE 48, 111 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		ACCIDENT LANDING			1			DF OPERATION Ing: Power-on Landing	NATED.
		IN COMMAND - IMPROPER CY CIRCUMSTANCES - PREC							
		TER IMPACT - LANDED TO CLOSE UNFAS							
3-2902	7/14/68 TIME - (MINCHUMINA,ALAS 0900	BELL 47G-2 N6711D DAMAGE-SUBSTANTIAL	РХ-	0 0	0 0	1 0	COMMERCIAL ASSOC FIRE CTL ACTIVITIE	TYPE, NOT INSTRUMENT
	ENGIN	ACCIDENT E FAILURE OR MALFUNCTIO DED WITH: TREES	N•			T/	AKE	DF OPERATION DFF: INITIAL CLIMB LIGHT: AUTOROTATIVE DESCEN	RATED.
	MISCEL TERRA COMPLETE EMERGEN	E CAUSE IN COMMAND - INADEQUAT LLANEOUS ACTS,CONDITION IN - HIGH OBSTRUCTIONS E POWER LOSS - COMPLETE CY CIRCUMSTANCES - FOR - AUTOROTATED INTO AREA	NS - FUEL EXHAUSTION E ENGINE FAILURE/FLA CED LANDING OFF AIRPI	MEOUT-	1 L/	ENGI AND	[NE	ANNING	

BRIEFS OF ACCIDENTS ETLE DATE LOCATION AIRCRAFT DATA IN.WRIES FI IGHT PILOT DATA F S M/N PURPOSE 3-2903 7/18/68 NORTH CREEK.NY STKORSKY S-58B CR- 0 0 1 COMMERCIAL COMMERCIAL, AGE 27, 1030 TIME - 0915 N887 PX- 0 0 0 CONSTRUCTION TOTAL HOURS. ALL IN DAMAGE-DESTROYED TYPE. NOT INSTRUMENT RATED PHASE OF OPERATION TYPE OF ACCIDENT MTSCELLANEOUS IN FLIGHT: OTHER COLLIDED WITH: TREES 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 PRIVATE, AGE 32, 1463 3-2912 8/2/68 SAL UDA . SC HUGHES 2694 CR- 0 0 1 NONCOMMERCIAL TIME - 1330 PX- 0 0 1 PLEASURE TOTAL HOURS. 38 IN TYPE. N8935F DAMAGE-SUBSTANTIAL 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 POWERPLANT - MISCELLANEOUS: POWERPLANT FAILURE FOR UNDETERMINED REASONS PILOT IN COMMAND - IMPRCPÉR 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 AR ABI, GA HUGHES 269B CR- 0 0 1 COMMERCIAL COMMERCIAL, FL.INSTR., TIME - 1230 N9438F PX- 0 0 0 AERIAL APPLICATION AGE 46, 2539 TOTAL HOURS, DAMAGE-SUBSTANTIAL ALL IN TYPE, NOT INSTRU-MENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION IN FLIGHT: PROCEDURE TURNAROUND MISCELLANEOUS LANDING: LEVEL OFF/TOUCHDOWN ROLL OVER 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 OPERATION - SPAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC KIND OF CROP - OTHER PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GLOVES - NOT USED CRASH HELMET - AVAILABLE-USED GOGGLES - NOT USED COCKPIT CRASHPAD - NOT INSTALLED CRASH BAR - NOT INSTALLED TANK/HOPPER-LOCATION - SIDES TERRAIN-TYPE - ROLLING ELEVATION-AREA BEING TREATED-FEET - 300 SWATH RUN-HOW FLOWN - WIND CALM PROCEDURE TURNAROUND - THIRD 1/3 OF TURN REMARKS- SETTLED DUE TO LOSS OF LIFT. SPRAYING PEANUTS.

FILE	DATE	LOCATION	AIRCRAFT DATA			IES S M/I		FL IGHT PURPOSE		PILOT DATA
 3-2978	7/24/68 TIME - 114		HUGHES 269A N8893F DAMAGE-SUBSTANTIAL					COMMERCIAL ASSOC CROP		COMMERCIAL, AGE 29, 5600 TOTAL HOURS, 1200 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC MISCELLA ROLL OVE	NEOUS	х. Х							
	PILOT IN FACTOR INSTRUME MISCELLA	COMMAND - IMPROPER COMMAND - FAILED TO ENTS/EQUIPMENT AND AC NEOUS ACTS,CONDITION NEOUS ACTS,CONDITION	MAINTAIN ADEQUATE F CESSORIES - MISCELLA S - IMPROPERLY LOADE	OT OR	R . P EQ	•M• UIPMI			C.G.	
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HO	ATA JURS IN CROP CONTROL CROP - COTTON SEAT BELT - FASTENEL - NOT USED CRASHPAD - NOT INSTA PPER-LOCATION - SIDES SETTLED PRIOR TO REAC	-PROPERLY		T G C C	YPE LOVE RASH RASH	OF (S – Hel BAF	CHEMICAL U NOT USED LMET - AVA R - NOT IN	SED - LIQUID CH ILABLE-USED ISTALLED	IEMICAL-TOXIC
3-2979	8/2/68 TIME - 060	NR.LK MINCHUMNA,ALAS DO	HILLER ACFT FH1100 N376FH DAMAGE-MINOR							COMMERCIAL, FL.INSTR., Age 35, 3865 Total Hours 50 In Type, not Instrume
5 2517			DAMAGE-MINUK							RATED.

PERSONNEL - MISCELLANEOUS-PERSONNEL: PASSENGER REMARKS- PX EXITED ACFT,WALKED INTO ROTATING T/R BLADE.

FILE	DATE	LOCATION	AIRCRAFT DATA	I N.	JUR =	IES S M	/N	FLIGHT Purpose		PILOT DATA
3-2980	8/8/68 TIME - 0: TYPE OF 4	PANOCHE,CALIF 815 ACCIDENT LANEOUS		CR- PX-	0 0 P	C D HAS IN			AROUND	COMMERCIAL, AGE 29, 3000 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
	FACTOR		R OPERATION OF FLIGHT DNS - PILOT FATIGUE	CONTRO	DLS					
	KIND OF PILOT GOGGLE: COCKPI TANK/HO ELEVAT	HOURS IN CROP CONTROL F CROP - BEANS S SEAT BELT - FASTENE S - NOT USED T CRASHPAD - NOT INST OPPER-LOCATION - SIDE ION-AREA BEING TREATE	UNKNOWN/NOT REPORT ED-PROPERLY (ALLED ES ED-FEET - 1000 SETTLE ONTO GRND ON F		T G C T S	YPE LOV RAS RAS ERR WAT	OF ES H H H B AIN H R	CHEMICAL USED - LIQ - NOT USED ELMET - AVAILABLE-US AR - NOT INSTALLED -TYPE - LEVEL,FLAT UN-HOW FLOWN - UNKNO	UID CH ED WN/NOT	EMICAL-TOXIC REPORTED
3-2998	NAME OF	AIRPORT - SANTA ROSA	DAMAGE-DESTROYED							STUDENT, AGE 53, 3118 Total Hours, 119 In Type, Not Instrument Rated.
	PROBABLE									
3-3012	NAME OF TYPE OF Engine	MT VERNON,IND 915 AIRPORT - MT VERNON ACCIDENT FAILURE OR MALFUNCTI LANEOUS			P	HAS	E () K E ()	NONCOMMERCIAL PLEASURE F OPERATION FF: INITIAL CLIMB NG: FINAL APPROACH		PRIVATE, AGE 48, 53 TOTAL Hours, 11 in type, not Instrument rated.
	MISCEL MISCEL PERSON PILOT COMPLETE EMERGENC	LANT - FUEL SYSTEM: (LANEOUS ACTS,CONDITIC LANEOUS ACTS,CONDITIC NEL - MAINTENANCE,SEF IN COMMAND - IMPROPEF POWER LOSS - COMPLET Y CIRCUMSTANCES - FOF	CARBURETOR DNS - IMPROPER ALIGNMI DNS - FUEL STARVATION XVICING,INSPECTION: IN OPERATION OF FLIGHT TE ENGINE FAILURE/FLAI CED LANDING OFF AIRPU DO LEAN MIXTURE CAUSE	APROPE CONTR MEOUT- DRT ON	R M DLS 1 E LA	AIN NGI ND	T EN N E			

BRIEFS OF ACCIDENTS

			S OF ACCIDE			
FILE	DATE LOCATIO	N AIRCRAFT DATA	INJURIE: F S		FLIGHT PURPOSE	PILOT DATA
-3013	8/26/68 FIREBAUGH,C TIME - 2200	ALIF BELL 47D1 N6323X DAMAGE-SUBSTANTIA			MMERCIAL RIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 30, 3100 TCTAL HOURS, 350 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF ACCIDENT Engine Failure or MA Hard Landing	LFUNCTION	I	N FLIG	PERATION T: STARTING SWAT LEVEL OFF/TOUCH	HRUN
	MISCELLANEOUS ACTS, POWERPLANT - FUEL SY MISCELLANEOUS ACTS, MISCELLANEOUS ACTS, PILOT IN COMMAND - I PARTIAL POWER LOSS - F	NCE,SERVICING,INSPECTION: CONDITIONS - FUEL STARVATIO STEM: CARBURETOR CONDITIONS - LOOSE,PART/FIT CONDITIONS - IMPROPERLY INS MPROPER OPERATION OF FLIGH CARTIAL LOSS OF POWER - 1 E S - FORCED LANDING OFF AIR	N TING TALLED T CONTROLS NGINE		NCE AND INSPECTI	ON
	ELEVATION-AREA BEING	JCE FASTENED-PROPERLY	TYP GLO CRA CRA TER SWA	E OF CH VES - N SH HELM SH BAR RAIN-TY TH RUN-	IOT USED IET - AVAILABLE-U - NOT INSTALLED IPE - LEVEL,FLAT HOW FLOWN - CROS	QUID CHEMICAL-TOXIC SED SWIND
-3014	8/21/68 UPLAND,CAL TIME - 1130	F BELL 47D1 N320R DAMAGE-SUBSTANTIA	PX- 0 0		ISTRUCTIONAL AINING	STUDENT, AGE 22, 48 TOTAL Hours, all in type, not Instrument rated.
	NAME OF AIRPORT - CABI TYPE OF ACCIDENT COLLIDED WITH: BUILD ROLL OVER	.E	PHA T	AKEOFF	PERATION VERTICAL LEVEL OFF/TOUCH	
	FACTOR MISCELLANEOUS ACTS,	NADEQUATE PREFLIGHT PREPAR CONDITIONS - CHECKLIST-FAIL EASE FRICTION LOCK ON CYCL	ED TO USE			STRUCK HANGAR DOOR.
- 2015	8/30/68 PORTLAND,TI	EX BELL 47G-4A	CR- 0 0	. 1	INC OMMERC IAL	COMMERCIAL, AGE 31, 2173
-3015	TIME - 0615	N1313X DAMAGE-SUBSTANTIA	PX-00	C C	RP/EXEC	TOTAL HOURS, 278 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT HARD LANDING				PERATION POWER-ON LANDIN	G
	EMERGENCY CIRCUMSTANC	IMPROPER OPERATION OF FLIGH SS - PRECAUTIONARY LANDING PROP/ENGINE VIBRATION NE-TD-ONE VIBRATION.CAUSE F	OFF AIRPORT	UNDET	RM INED.	

.

			DRIEL	S UF ACC	TUCINIS			
FILE	DATE I	.OCATION	AIRCRAFT DATA	INJU F	JRIES SM/N	FLIGHT PURPOSE		PILOT DATA
3-3033	9/2/68 MERIO TIME - 1330		BELL 47G N10175 DAMAGE-DESTROYED			COMMERCIAL AERIAL APPLI	CATION	COMMERCIAL, AGE 43, 8500 Total Hours, 500 in type, Not instrument rated.
	TYPE OF ACCIDEN COLLIDED WITH					OF OPERATION LIGHT: CLEANUP		
	PROBABLE CAUSE PILOT IN COMM	AND - FAILED TO	SEE AND AVOID OBJE	CTS OR O	BSTRUC	TIONS		
	KIND OF CROP PILOT'S SEAT I GOGGLES - NOT COCKPIT CRASHI TANK/HOPPER-L(- COTTON BELT - FASTENEI USED PAD - NOT INST DCATION - SIDE: A BEING TREATEI	ALLED		TYPE O GLOVES CRASH	F OPERATION - F CHEMICAL USE - NOT USED HELMET - AVAIL BAR - NOT INST N-TYPE - LEVEL RUN-HOW FLOWN	D - LIQUID CH	
3-3045	8/14/68 BREE; TIME - 0945		HILLER FH1100 N375FH DAMAGE-DESTROYED	PX- 0	0 0	FERRY		COMMERCIAL, AGE 42, 10800 TOTAL HOURS, 600 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDEN COLLISON WITH	GROUND/WATER:	UNCONTROLLED	* a	PHASE IN F	OF OPERATION LIGHT: UNCONTR	OLLED DESCENT	
	FACTOR MISCELLANEOUS	ACTS,CONDITIO	CAUSE UNDETERMINED. NS - AIRCRAFT CAME TI CED LANDING OFF AIRP(R		
3-3046	TYPE OF ACCIDEN MISCELLANEDUS		HUGHES 269A N8927F DAMAGE-SUBSTANTIAL		PHASE IN F	INSTRUCTIONA TRAINING OF OPERATION LIGHT: NORMAL ING: POWER-OFF	CRUISE	PRIVATE, AGE 33, 138 Total Hours, 42 in Type, Not Instrument Rated.
	AIRFRAME - FU MISCELLANEOUS MISCELLANEOUS PILOT IN COMM.	SELAGE: FAIRING ACTS,CONDITIO ACTS,CONDITIO AND - IMPROPER ASTANCES - FOR UNU DIRI	NS - IMPROPERLY INST NS - VIBRATION,EXCES OPERATION OF BRAKES CED LANDING OFF AIRPO SUAL NOISE ECTIONAL CONTROL PROM	ALLED SIVE AND/OR ORT ON L	FLIGHT	TENANCE AND IN		

BRIEFS OF ACCIDENTS

.

FILE	DATE	LOCATION	AIRCRAFT DATA			IES S M/		FLIGHT PURPOSE	PILOT DATA
 3-3182	9/18/68 GA TIME - 1430	I THERSBURG, MD	BELL 47G N616X DAMAGE-SUBSTANTIAL	CR-	0	0	1	NONCOMMERCIAL	COMMERCIAL, AGE 50, 9700 TOTAL HOURS, 2045 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCID	RT - MONTGOMERY DENT TH: WIRES/POLES	ÇOUN TY					OPERATION F: INITIAL CLIMB	
	PILOT IN CO	MMAND - INADEQUA	TE PREFLIGHT PREPARAT O SEE AND AVOID OBJEC IE TAKE-OFF AREA PRIOF	TS OF	CB	STRU	ICT I		
3-3197	8/18/68 CU TIME - 1130	ISTER,S DAK	BELL 47G3B1 N6214N DAMAGE-DESTROYED					COMMERCIAL Fire Control	COMMERCIAL, AGE 38, 4873 Total Hours, 900 in type, Not instrument rated.
	TYPE OF ACCID MISCELLANED COLLIDED WI	US			Ρ	IN	FLI	OPERATION GHT: UNCONTROLLED DES GHT: UNCONTROLLED DES	CENT
	PROBABLE CAUS PILOT IN CO FACTOR		OPERATION OF FLIGHT	CONTR	OLS				
	TERRAIN - H	IIGH OBSTRUCTIONS							
	SKY CONDITION UNKNOWN/NOT				с			AT ACCIDENT SITE N/NOT REPORTED	
	VISIBILITY AT 5 OR OVER	ACCIDENT SITE			P	REC 1 NON		ATION AT ACCIDENT SIT	E i
	OBSTRUCTIONS NONE	TO VISION AT ACC	IDENT SITE		т	EMPE 70	RAT	URE-F	
	WIND DIRECTIO	N-DEGREES			W	IND 20	VEL	OCITY-KNOTS	
	TYPE OF WEATH	ER CONDITIONS				YP E NON	Е	FLIGHT PLAN	
	REMARKS- ACFT	SETTLED WHILE C	IRCLING OVER FOREST F	IRE.W	IND	S 20	-32	K.AIRSPEED/ALT TOO LO	W FOR CONDITIONS.

,

FILE	DATE	LOCATION	AIRCRAFT DATA		F	S	M/N	PURPOSE		PILOT DATA	
3-3209	TIME - 12	CAMDEN,SC 30	HUGHES 269A . N8917F DAMAGE-SUBSTANTIAL	CR- PX-	0 0	0	1 0	AERIAL APPLICATION		COMMERCIAL, AGE 29, 2293 Total Hours, 485 In Type, Not Instrument Rated.	
		CCIDENT D WITH: WIRES/POLES NDING				I	N FI	DF OPERATION LIGHT: STARTING SWATH ING: POWER-ON LANDING	RUN		
	FACTOR MISCELL	CAUSE N COMMAND - FAILED TO ANEOUS ACTS,CONDITION ANEOUS ACTS,CONDITION	IS - SUNGLARE				-				
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HO ELEVATI	ATA DURS IN CROP CONTROL CROP - CORN SEAT BELT - FASTENEL - NOT USED CRASHPAD - NOT INST PPER-LOCATION - SIDE ON-AREA BEING TREATEL BUBBLE DIRTY.	D-PROPERLY ALLED			GLO CRA CRA	E OI VES SH I SH I	F OPERATION - SPAYING F CHEMICAL USED - LIQU - NOT USED HELMET - AVAILABLE-US BAR - NOT INSTALLED N-TYPE - LEVEL,FLAT	JID CH		
-3241		ALEXANDRIA,VA 15	HUGHES 269B N9428F DAMAGE-DESTROYED					INSTRUCTIONAL TRAINING		STUDENT, AGE 41, 17 TOTAL Hours, All In Type, Not Instrument rated.	
	TYPE OF A	N WITH GROUND/WATER:	UNCONTROLLED			I	N FI	DF OPERATION LIGHT: UNCONTROLLED DI ING: LEVEL OFF/TOUCHDI		r	
	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.										

FILE	DATE	LOCATION	AIRCRAFT DATA	IN	JURI F S	ES M/	'N	FLIGHT PURPOSE		PILOT DATA
	9/1/68									PRIVATE, AGE 41, 100 Total Hours, 10 In Type, Not Instrument Rated.
	TYPE OF AC	RPORT - COOLIDGE-FLO CIDENT R/ROTOR FAILURE: MA: WITH GROUND/WATER:	DRENCE In Rotor			TAK	EO	F OPERATION FF: INITIAL CLIMB IGHT: UNCONTROLLED D		
	MISCELLA ROTORCRA MISCELLA MISCELLA FACTOR MISCELLA	COMMAND - FAILED TO NEOUS ACTS,CONDITIO FT - ROTOR ASSEMBLI NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO	D FOLLOW APPROVED PRO VS - UNAPPROVED MODIF ES: MAIN ROTOR HEAD A NS - IMPROPERLY INSTA NS - MATERIAL FAILURE NS - SEPARATION IN FL BENSEN PLANS.BOLT USE	ICATI SSEME LLED IGHT					UBE FAI	ILED.
3-3268		0	BELL 47G3B1 N3377H DAMAGE-DESTROYED						VITIE	COMMERCIAL, AGE 48, 17000 TOTAL HOURS, 900 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC COLLIDED	CIDENT WITH: WIRES/POLES						F OPERATION FF: INITIAL CLIMB		RATED.
	FIRE AFTER	COMMAND - FAILED T IMPACT	D SEE AND AVOID OBJEC UCT AERIAL SURVEY FOR							
3-3280	1C/3/68 TIME - 094	BELDEN,CALIF 9	HILLER FH1100 N585FH DAMAGE-SUBSTANTIAL	CR- PX-	0 0	0 0	1 0	COMMERCIAL Construction		COMMERCIAL, FL.INSTR., AGE 52, 12000 TOTAL HOURS, 220 IN TYPE, NOT
	TYPE OF AC COLLISON ROLL OVE	WITH GROUND/WATER:	UNCONTROLLED			IN	FL	F OPERATION IGHT: UNCONTROLLED D NG: LEVEL OFF/TOUCHD		INSTRUMENT RATED.
	MISCELLA MISCELLA MISCELLA FACTOR PILOT IN MISCELLA	L - MISCELLANEOUS-P NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO NEOUS ACTS,CONDITIO I COMMAND - FAILED T NEOUS ACTS,CONDITIO	NS - IMPROPERLY SECUR	D AIF USED	MIS	C.EC	QU I ES	PMENT	D.LOAD	NOT JETTISONED.

•

			S UF ACCIDENTS	
FILE	DATE LOCATION		INJURIES FLIGHT F S M/N PURPOSE	
	1C/6/68 PRATT,KANS TIME - 1245	BENSEN B-8	CR- 0 0 1 NONCOMMERC Px- 0 0 0 PLEASURE	
	NAME OF AIRPORT - PRATT TYPE OF ACCIDENT ENGINE FAILURE OR MALFUN ROLL OVER	CTION	PHASE OF OPERATION Landing: Roll Landing: Roll	N
	PROBABLE CAUSE MISCELLANEOUS ACTS,CONDI PILOT IN COMMAND - IMPRO REMARKS- ENG ACCELERATED W	PER OPERATION OF FLIGHT		
3-3284	6/27/68 NR.LEWISTON,ID TIME - C810	BELL 47G3B1 N73284 DAMAGE-DESTROYED	CR− 0 0 1 COMMERCIAN PX− 0 0 1 AIR TAXI−F	COMMERCIAL, FL.INSTR., PASSG AGE 47, 21021 TOTAL HOURS, 1547 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT COLLIDED WITH: WIRES/POL	ES	PHASE OF OPERATION TAKEOFF: VERTICA	N
	PR∩BABLE CAUSE PILOT IN COMMAND → FAILE FIRE AFTER IMPACT	D TO SEE AND AVOID OBJE	CTS OR CBSTRUCTIONS	
3-3289	1C/12/68 WATKINS,COLD TIME - 0930	REEVES TELLER N1685 DAMAGE-SUBSTANTIAL	CR- 0 C 1 INSTRUCTIO PX- 0 C 0 TRAINING	DNAL STUDENT, AGE 40, 1 TOTAL Hours, all in type, not Instrument rated.
	NAME OF AIRPORT - EAST COL TYPE OF ACCIDENT GROUND-WATER LOOP-SWERVE COLLIDED WITH: DIRT BANK		PHASE OF OPERATION LANDING: ROLL LANDING: ROLL	N
	PROBABLE CAUSE PILOT IN COMMAND - FAILE PILOT IN COMMAND - ATTEM			
3-3291	10/8/68 SANDSTON,VA TIME - 0725	CARSON-BELL 47-G N617X DAMAGE-SUBSTANTIAL	CR- C 0 1 MISCELLAN PX- O 0 1 OTHER	EOUS COMMERCIAL, AGE 45, 4754 Total Hours, 350 in type, Not instrument rated.
	NAME OF AIRPORT - BYRD Type of Accident Collided With: Object		PHASE OF OPERATION TAXI: AERIAL TA	
	PROBABLE CAUSE PILOT IN COMMAND - MISJU REMARKS- PLT ATTEMPTED TO		ER.M/R STRUCK HANGAR DOOR	SUPPORT.

			BRIEF	S OF ACCIDENTS		
FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N		PILOT DATA
		HOUSTON, TEX	BELL 47H-1 N996B DAMAGE-SUBSTANTIAL	PX- 0 0 0	COMMERCIAL AERIAL ADVERTISE	COMMERCIAL, FL.INSTR., AGE 34, 8217 TOTAL HOUR 300 IN TYPE, NOT INSTRU MENT RATED.
	TYPE OF A ENGINE HARD LA	FAILURE OR MALFUNCT	ION	IN F	CF OPERATION LIGHT: NORMAL CRUISE NING: LEVEL OFF/TOUCHDOWN	
	PILOT I FACTOR	ANT - MISCELLANEOUS	: POWERPLANT FAILURE R OPÉRATION OF FLIGHT		IED REASONS	
			TE ENGINE FAILURE/FLA	MEOUT-1 ENGINE		
3-3330	8/13/68 TIME - 14	MILLER HOUSE,ALAS	BELL 47G-4 N3093G DAMAGE-DESTROYED		COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., Age 53, 10050 TOTAL Hours, 3950 IN TYPE, NO INSTRUMENT RATED.
	TYPE OF A Colliso	CCIDENT N WITH GROUND/WATER	: UNCONTROLLED		OF OPERATION LIGHT: UNCONTROLLED DESC	
	WEATHER B	CAUSE - LOCAL WHIRLWIND RIEFING - NO BRIEFI ORECAST - UNKNOWN/N				
	SKY CONDI CLEAR VISIBILIT	TION Y AT ACCIDENT SITE		UNLI	IG AT ACCIDENT SITE MITED PITATION AT ACCIDENT SITE	
	5 OR OV		CIDENT SITE	NONE		
	WIND DIRE 45	CTION-DEGREES		WIND V 10	ELOCITY-KNOTS	
	VFR FIRE AFTE		VER AT APPROX 9 FT,AC	NONE	DF FLIGHT PLAN IN A SEVERE WHIRLWIND.	
3-3331		NR.JUNEAU,ALAS	BRANTLY B-2B		NONCOMMERCIAL	COMMERCIAL, FL.INSTR.,
	TIME - 11	325 	N5962X DAMAGE-NONE	PX- 0 0 0	PLEASURE	AGE 45, 5000 TOTAL HOU UNK/NR IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A PROPELL	CCIDENT ER/ROTOR ACCIDENT T	O PERSON		OF OPERATION IC: IDLING ROTORS	
	PILOT I	N COMMAND - EXERCIS N COMMAND - LEFT AI	ED POOR JUDGMENT RCRAFT UNATTENDED, EN RUCK BY MAIN ROTOR BL			

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

				OF ACC			
FILE		LOCATION	AIRCRAFT DATA	INJU F			PILOT DATA
	7/29/68 NF	R.ASPEN,COLO 2 2	BELL 47G3B2	CR- 0 PX- 0	1 0 C 2	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 42, 540 TOTAL HOURS, 1964 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC ENGINE FA	RPORT - MIDWAY CREE CIDENT AILURE OR MALFUNCTI WITH: TREES			IN FL	F OPERATION IGHT: POWER-ON DESCENT NG: POWER-OFF AUTOROTAT	IVE LANDING
	FACTOR WEATHER - TERRAIN - PARTIAL POW WEATHER BR WEATHER FOR	HT - MISCELLANEOUS: - HIGH DENSITY ALTI - HIGH OBSTRUCTIONS HER LOSS - PARTIAL LEFING - NO BRIEFIN ECAST - UNKNOWN/NO	LOSS OF POWER - 1 ENG G RECEIVED	SINE		D REASONS	
	SKY CONDIT: OVERCAST				14000		
	-	ISIBILITY AT ACCIDENT SITE PRECIPITATION AT ACCIDENT SI 5 OR OVER NONE					
	OBSTRUCTION NONE	NS TO VISION AT ACC	IDENT SITE		TEMPERA 60	TURE-F	
	WIND DIRECT 360	ION-DEGREES		I	WIND VE 6	LOCITY-KNOTS	
	VFR	ATHER CONDITIONS			NONE	FLIGHT PLAN	
	FIRE AFTER REMARKS- DE		G RPM DCR WHEN THROTT	LE WAS	INCREAS	ED.SIMILAR PWR LOSS THI	S ACFT 50 HRS BEFORE
3-3439	8/28/68 TIME - 0715	CHULA VISTA,CALIF	HUGHES 269A N8709F DAMAGE-SUBSTANTIAL	РХ - ()		COMMERCIAL ASSOC CROP CTL ACTIVIT	COMMERCIAL, AGE 35, 130 IE TOTAL HOURS, 1150 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC	RPORT - CHULA FARMS Sident WITH: FENCE,FENCEP				F OPERATION FF: INITIAL CLIMB	
	PROBABLE C# PILOT IN	NUSE COMMAND - FAILED T	O ABORT TAKEOFF				
	KIND OF (TYPE UF	OPERATION - SPAYING CR CHEMICAL USED - LIQUID - USED ELMET - AVAILABLE-USED	

PAGE 70

~

FILE DATE LOCATION ATRCRAFT DATA TN HIRTES FLIGHT PILOT DATA E S M/N PURPOSE 3-3448 9/19/68 CAMP DENISON, OHIO HUGHES 269A CR- 1 0 0 NONCOMMERCIAL AIRLINE TRANSPORT, AGE PX- 0 0 0 PLEASURE 42, 11000 TOTAL HOURS, 44 TIME - 1807 N8930F DAMAGE-DESTROYED IN TYPE, NOT INSTRUMENT RATED TYPE OF ACCIDENT PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE MISCELLANEOUS COLLISON WITH GROUND/WATER: UNCONTROLLED 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 - TRANSMISSICN 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, PN269A5250-51, DISINTGRATED, RUST ON CUTER RACE. M/R MAST BROKE ABOVE FLANGE ATCH PT 3-3464 6/5/68 MINERAL .WASH 8F11 476-2 CR- 0 0 1 COMMERCIAL COMMERCIAL, FL.INSTR., TIME - 0930 N28C38 PX- 0 0 0 AERIAL APPLICATION AGE 48, 13000 TOTAL DAMAGE-SUBSTANTIAL HOURS, 2500 IN TYPE, NOT INSTRUMENT RATED. NAME OF AIRPORT - MINERAL TYPE OF ACCIDENT PHASE OF OPERATION ENGINE FAILURE OR MALFUNCTION IN FLIGHT: SWATH RUN COLLIDED WITH: TREES 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 OPERATION - SPAYING FORESTS KIND OF CROP - FOREST-TREES TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED GOGGLES - NOT USED CRASH HELMET - AVAIALABLE-NOT USED COCKPIT CRASHPAD - NOT INSTALLED CRASH BAR - NOT INSTALLED TANK/HCPPER-LOCATION - SIDES TERRAIN-TYPE - MOUNTAINOUS ELEVATION-AREA BEING TREATED-FEET - 800 DENSE WITH TREES SWATH RUN-HOW FLOWN - UPWIND REMARKS- IMPULSE COUPLING ASSY PN 10-76232 ON LT MAG FAILED,LODSE PART JAMMED GEAR TRAIN. SPRAYING FOREST.

FILE	DATE	LOCATION	AIRCRAFT DATA	IN	F	SM	/N	PURPOSE	PILOT DATA		
	6/13/68	ALBANY,OREG 30	BRANTLY B-2 N5963X DAMAGE-SUBSTANTIAL	CR- PX-		0 C 1 NONCOMMERCIAL 0 0 C PLEASURE	COMMERCIAL, FL.INSTR., AGE 27, 1400 TCTAL HOURS, IN TYPE, NOT INSTRUMENT RATED.				
	NAME OF AIRPORT - ALBANY MUNI TYPE OF ACCIDENT PHASE OF OPERATION HARD LANDING LANDING LANDING: ROLL-ON/RUN-ON GEAR COLLAPSED LANDING: ROLL-ON/RUN-ON										
	PILOT I FACTOR MISCELL	N COMMAND - IMPROPER N COMMAND - FAILED T ANEOUS ACTS,CONDITIC	R RECOVERY FROM BOUNCI TO MAINTAIN ADEQUATE I DNS - OVERLOAD FAILURI TO GRAVEL AREA ALONGS	ROTOR	R∎P	• M•	NCE	D,CAME DOWN ON HEELS C	F SKIDS.		
3-3475		GRANDVIEW,WASH 45	BELL 47G-2 N366D DAMAGE-SUBSTANTIAL		0 0	0 0	1 0	COMMERCIAL ASSOC CROP CTL ACTIVI	COMMERCIAL, AGE 34, 1140 TIE TOTAL HOURS, 305 IN TYPE, NOT INSTRUMENT RATED.		
	TYPE OF A STALL:		DANAGE JOBSTANTIAE					F OPERATION IGHT: SURVEY FIELD/ARE			
		N COMMAND - IMPROPER	R OPERATION OF POWERP R OPERATION OF FLIGHT				PLA	NT CONTROLS			
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HO ELEVATI PROCEDU	IOURS IN CROP CONTROL CROP - TOMATOES SEAT BELT - UNKNOWI - NOT USED CRASHPAD - NOT INS IPPER-LOCATION - SIDÜ ON-AREA BEING TREATI IRE TURNAROUND - FIRS	TALLED ES ED-FEET - 750 ST 1/3 OF TURN		T G C C T S	YPE LOV RAS RAS ERR WAT	OF ES H F H E AIN H R	OPERATION - CHECKING CHEMICAL USED - LIQUI - NOT USED HELMET - NOT AVAILABLE HAR - NOT INSTALLED HTYPE - LEVEL,FLAT UN-HOW FLOWN - WIND C/ KROUND WHILE SURVEYING	1L M		
3-3482	6/23/68 TIME - 22	MEDFORD, OREG	HUGHES 269A N8711F DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL BUSINESS	PRIVATE, AGE 49, 1120 TOTAL HOURS, 420 IN TYPE, NOT INSTRUMENT RATED.		
	TYPE OF A	FAILURE OR MALFUNCT				IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROT	ATIVE LANDING		
	FACTOR MISCELL COMPLETE EMERGENCY	ANT - MISCELLANEOUS ANEOUS ACTS,CONDITI POWER LOSS - COMPLE	: POWERPLANT FAILURE DNS - AIRCRAFT CAME T TE ENGINE FAILURE/FLA RCED LANDING OFF AIRP DRY CREEK BED.	O RES	T IN -1 E	NG I	TEF				

FILE		N AIRCRAFT DATA	F S			PILOT DATA
	8/26/68 NR.AZUZA,CALI TIME - 1230	F ALOUETTE III	CR- 1	0 0 0 0	COMMERCIAL Assoc Crop CTL ACTI	COMMERCIAL, FL.INSTR., VITIE AGE 48, 4600 TOTAL HOURS, 51 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT MISCELLANEOUS COLLISON WITH GROUND	WATER: UNCONTROLLED		IN FL	OPERATION GHT: EN ROUTE TO TRI GHT: UNCONTROLLED D	EAT CROP
		TERMINED CONDITIONS - JETTISONED LOAD CKET BEGAN SWINGING,WAS DRC		ROTATE	D TO RT,FIRE COMING	FROM ENG,FELL TO GRND,
3-3567	9/14/68 BRIDGETON,N TIME - 1645	NJ BENSEN B8M N2190 DAMAGE-DESTROYED	CR- 1 PX- 0	0 0 C 0	NONCOMMERCIAL PRACTICE	NO CERTIFICATE, AGE 32, 0 Total Hours, all IN Type, not instrument Rated.
	NAME OF AIRPORT - BUCK Type of Accident Miscellaneous Collison with Ground	S		LANDIN	OPERATION G: FINAL APPROACH GHT: UNCONTROLLED D	
	PILOT IN COMMAND - I Factor MISCELLANEOUS ACTS,C	TTEMPTED OPERATION BEYOND E MPROPER OPERATION OF FLIGH ONDITIONS - SEPARATION IN F INVESTIGATION REVEALED ROT	CONTROLS			DURING A PULLUP MANEUVR
		•				
3-3577	8/11/68 NR.GARDEN VAL TIME - 1645	LEY,ID BELL 47G3B1 N73972 DAMAGE-DESTROYED	CR- 0 PX- 0	0 1 0 0	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 27, 2093 Total Hours, 211 in type, Not instrument rated.
	TYPE OF ACCIDENT ROLL OVER				OPERATION	
	PROBABLE CAUSE PILOT IN COMMAND - F TERRAIN - ROUGH/UNEV	AILED TO SEE AND AVOID OBJE	ECTS OR OBS	TRUCT	IONS	

FILE				IN	F S	M/N	PURPOSE	PILOT D	ΑΤΑ
		ROCKFORD,ID	HILLER UH-12E N4414 DAMAGE-SUBSTANTIAL	CR-	0	0 1		COMMERCIAL, AG ON TOTAL HOURS, 1 NOT INSTRUMENT	CO IN TYPE,
	TYPE OF AC STALL: M		DAMAGE-SUDSTANTIAL				OF OPERATION LIGHT: PROCEDURE T		KATED.
	WEATHER WEATHER WEATHER BR		TITUDE Ing received	CONTR	OLS				
	SKY CONDI	TION			CE	ILIN	G AT ACCIDENT SITE		
		Y AT ACCIDENT SITE					MITED ITATION AT ACCIDEN		
	5 OR OVE	ER				NONE			
	OBSTRUCTIO	DNS TO VISION AT A	CCIDENT SITE			MPER 93	ATURE-F		
		EATHER CONDITIONS			ΤY		F FLIGHT PLAN		
	KIND OF PILOT'S CRASH HE CRASH BA TERRAIN- SWATH RU	DURS IN CROP CONTR CROP - POTATOES SEAT BELT - FASTE ELMET - AVAIALABLE AR - NOT INSTALLED -TYPE - LEVEL,FLAT UN-HOW FLOWN - WIN	NED-PROPERLY -NOT USED	DEG.	TY GL CC TA EL PF	PE O OVES ICKPI NK/H EVAT	- USED T CRASHPAD - NOT I OPPER-LOCATION - S ION-AREA BEING TRE URE TURNAROUND - T	LIQUID CHEMICAL-NONTOXIC INSTALLED IDES ATED-FEET - 4600 HIRD 1/3 OF TURN	
3-3649		SONOITA,ARIZ DO	BELL 206A N4039G DAMAGE-SUBSTANTIAL				COMMERCIAL CTR PASSG-D	COMMERCIAL, AG 11015 TOTAL HE Type, Not Inst Rated.	URS, 345 IM
	TYPE OF A	FAILURE OR MALFUNC				TAKE	OF OPERATION OFF: INITIAL CLIMB ING: LEVEL OFF/TOU		
	MISCELLA COMPLETE I EMERGENCY	ANT - COMPRESSOR A ANEOUS ACTS,CONDIT POWER LOSS - COMPL CIRCUMSTANCES - F	SSEMBLY: OTHER IONS - MATERIAL FAILURE ETE ENGINE FAILURE/FLAM ORCED LANDING OFF AIRPO RESSOR,SN CAC 20064,PN	EOUT-	LAN	D			

PAGE 74

.

FILE	DATE LOCATION	AIRCRAFT DATA	1 I				FLIGHT PURPOSE	PILOT DATA
-3699	10/11/68 FINLEYVILLE, TIME - 1745 NAME OF AIRPORT - FINLE TYPE OF ACCIDENT MISCELLANEOUS ROLL OVER	N828Z DAMAGE-SUBSTANTIA	PX-	U	PHAS	E	INSTRUCTIONAL TRAINING OF OPERATION ING: TRAFFIC PATTERN-CIR ING: LEVEL OFF/TOUCHDOWN	
-	MISCELLANEOUS ACTS,CO FACTOR PÎLOT IN COMMAND - AT EMERGENCY CIRCUMSTANCES	LANCED CORDWISE DURING AS NDITIONS - LATERAL IMBALA TEMPTED OPERATION BEYOND - FORCED LANDING ON AIRF LATERAL CONTROL PROBLE NG HIMSELF TO FLY HOME-BU	NCE EXPERIE ORT/SEA	PLA				
3-3723	10/5/68 HAINES CITY, TIME - 0710		PX-				COMMERCIAL ASSOC CROP CTL ACTIVIT	COMMERCIAL, FL.INSTR., IE AGE 51, 10000 TOTAL HOURS, 70C0 IN TYPE, NO INSTRUMENT RATED.
	TYPE OF ACCIDENT ENGINE FAILURE OR MAL HARD LANDING	FUNCTION		F	IN	FL	DF OPERATION .IGHT: EN ROUTE TO RELOA (NG: POWER-OFF AUTOROTAT	DING AREA
	MISCELLANEOUS ACTS,CO TERRAIN - HIGH OBSTRU PARTIAL POWER LOSS - PA	ADEQUATE PREFLIGHT PREPAR NDITIONS - FUEL EXHAUSTIC CTIONS RTIAL LOSS OF POWER - 1 E - FORCED LANDING OFF AIF	IN ING I NE			PLA	ANNING	
	SPECIAL DATA TOTAL HOURS IN CROP C KIND OF CROP - FRUIT PILOT'S SEAT BELT - U GOGGLES - NOT USEO COCKPIT CRASHPAD - NO TANK/HOPPER-LOCATION ELEVATION-AREA BEING REMARKS- CRASHED INTO A	NKNOWN/NOT REPORTED T INSTALLED - SIDES TREATED-FEET - 135	IRTED	ד 0 1	GLOV CRAS CRAS	ES H H I AI	OPERATION - SPAYING CR CHEMICAL USED - LIQUIC NOT USED RELMET - AVAIALABLE-NOT BAR - NOT INSTALLED NTYPE - ROLLING RUN-HOW FLOWN - WIND CAL) CHEMICAL-TOXIC USED
3-3729	10/15/68 WASHINGTON,D TIME - 0800	C HUGHES 269B N9474F DAMAGE-SUBSTANTIA	РХ-				MISCELLANEOUS Police patrol	COMMERCIAL, AGE 36, 7000 Total Hours, 3500 IN Type, not instrument Rated.
	NAME OF AIRPORT - WASHI TYPE OF ACCIDENT COLLIDED WITH: PARKED			F			DF OPERATION Ing: Power-on Landing	
	PROBABLE CAUSE PILOT IN COMMAND - MI REMARKS- M/R OF HUGHES	SJUDGED CLEARANCE N9474F STRUCK M/R OF BELL	N261M	, sı	JBST	. Di	MAGE.	

			S OF ACCIDENTS	-	
FILE	DATE LOCATION		INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3753	16/20/68 HARRISBURG,PA TIME - 1300	BELL 47G-2 N6719D DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0		COMMERCIAL, AGE 42, 222 Total Hours, 56 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACCIDENT Collided with: wires/po			OPERATION GHT: CLIMB TO CRUIS	
	PROBABLE CAUSE PILOT IN COMMAND - FAIL REMARKS- STRUCK POWER LIN	ED TO SEE AND AVOID OBJE	ECTS OR GBSTRUCT	ONS	
3-3755	10/21/68 ANOKA,MINN TIME - 1010	BENSEN B8-M N1802 DAMAGE-SUBSTANTIAL	PX- 0 C 0		STUDENT, AGE 48, 21 TOTAL Hours, 3 in type, not instrument rated.
	NAME OF AIRPORT - ANOKA C Type of accident Engine failure or malfu Hard landing		LANDI	- OPERATION NG: TRAFFIC PATTERN- NG: LEVEL OFF/TOUCHE	
	MISCELLANEOUS ACTS,CONC POWERPLANT - IGNITION S PERSONNEL - MAINTENANCE	SERVICING, INSPECTION: 1 OPER OPERATION OF FLIGHT IPLETE ENGINE FAILURE/FLA FORCED LANDING ON AIRPO	ERATÜRE Improper Mainten/ Controls Amedut-1 Engine Drt/Seaplane Basi	E/HEL IPT.	
3-3836	11/10/68 GILBERTSVILLE, TIME - 1145	KY BENSEN B8M N336Y DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0		STUDENT, AGE 28, 57 TOTAL Hours, 8 in Type, Not Instrument rated.
	NAME OF AIRPORT - KY DAM Type of accident Engine failure or malfu Roll over		IN FL	- OPERATION [GHT: NORMAL CRUISE NG: ROLL	
	PROBABLE CAUSE POWERPLANT - ENGINE STR MISCELLANEOUS ACTS,COND MISCELLANEOUS ACTS,COND TERRAIN - WET,SOFT GROU COMPLETE POWER LOSS - COM EMERGENCY CIRCUMSTANCES - REMARKS- PISTONS SCORED,E	DITIONS - SCORED IND IPLETE ENGINE FAILURE/FL/ FORCED LANDING OFF AIRF	AMEOUT-1 ENGINE Port on Land	TERMINED.CRASHED ON	MUDDY EDGE OF LAKE.

BRIEFS OF ACCIDENTS _____ LOCATION PILOT DATA FILE DATE AIRCRAFT DATA INJURIES FLIGHT PURPOSE F S M/N -------------3-3925 9/26/68 NR.ANACONDA, MONT BELL 47G3B1 CR- 0 0 1 COMMERCIAL COMMERCIAL, AGE 46, TIME - 1545 N73931 PX- 0 0 1 ASSOC FIRE CTL ACTIVITIE 11225 TOTAL HOURS, 1100 IN DAMAGE-SUBSTANTIAL 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 3-3934 9/30/68 ELTOPIA, WASH BELL 47G-4 CR- 0 1 0 COMMERCIAL COMMERCIAL, AGE 44, TIME - 1120 PX- 0 0 0 AERIAL APPLICATION 14000 TOTAL HOURS, 600 IN N6786D DAMAGE-SUBSTANTIAL TYPE, NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION COLLIDED WITH: WIRES/POLES IN FLIGHT: STARTING SWATH RUN PROBABLE CAUSE PILOT IN COMMAND - FAILED TO SEE AND AVOID OBJECTS OR CBSTRUCTIONS SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 1600 KIND OF OPERATION - SPAYING FORESTS KIND OF CROP - SAGE TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC 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 - 800 SWATH RUN-HOW FLOWN - WIND CALM REMARKS- TOXICOLOGICAL TEST SHOWED PLT CHCLINESTERASE LEVEL NORMAL. 3-3964 10/20/68 SEATTLE, WASH **BELL 206** CR- 0 0 1 MISCELLANEOUS COMMERCIAL, AGE 36, 700 TIME - 1355 N4046G PX- 0 0 2 POLICE PATROL TOTAL HOURS, 75 IN TYPE, DA MAGE-SUB STANTI AL NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION ROLL OVER 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.

FILE	DATE	LOCATION	AIRCRAFT DATA	1	NJUI F		i IZN	FL IGHT PURPOSE	PILOT DATA
3-3971	10/29/68 TIME - 12	RENTON, WASH 45	HUGHES 269A N8772F DAMAGE-DESTROYED					INSTRUCTIONAL DUAL	ATR,FLIGHT INSTR., AGE 30, 1665 TOTAL HOURS, 197 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A COLLISO	CCIDENT N WITH GROUND/WATE	R: UNCONTROLLED					F OPERATION IGHT: UNCONTROLLED DESCE	-
	DUAL ST DUAL ST PILOT I	ANEOUS ACTS,CONDIT UDENT - IMPROPER O UDENT - FAILED TO N COMMAND - INADEQ	IONS - SIMULATED COND PERATION OF FLIGHT COM MAINTAIN ADEQUATE ROTO JATE SUPERVISION OF FI IVE LDG. LOST ROTOR RE	NTROLS DR R.F IGHT	; °•M•	400) FT	AGL.	
3-3982	11/22/68 TIME - 10	NR.ROANOKE,VA 30	BELL 47G-5 N12C1W DAMAGE-SUBSTANTIAN	PX-	- 0	0 C	1 1	COMMERCIAL POWER/PIPELINE	COMMERCIAL, FL.INSTR., AGE 28, 2459 TOTAL HOURS, 714 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF A MISCELL PROPELL		TAIL ROTOR			١I	I FL	F OPERATION IGHT: NORMAL CRUISE IGHT: NORMAL CRUISE	
	FACTOR WEATHER WEATHER B WEATHER F	N COMMAND - INADEQ - DOWNDRAFT,UPDRA RIEFING - BRIEFED ORECAST - UNKNOWN/ CIRCUMSTANCES - F	BY FLIGHT SERVICE PERS	SONNEI Port (., B' On L	Y PI AND			
	5 OR OV	TY AT ACCIDENT SITE				UI PREI Nt	NLIM CIPI ONE	AT ACCIDENT SITE ITED TATION AT ACCIDENT SITE	
	NONE WIND DIRE 230	CCIDENT SITE			52 WIN 1	2 D VE 5	TURE-F Locity-knots Flight plan		
	TYPE OF WEATHER CONDITIONS VFR REMARKS- IN DOWNDRAFT,RECCRDER ON PX LAP THROWN T					N	DNE		

BRIEF'S OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT PILOT DATA F S M/N PURPOSE ******** 3-4055 12/8/68 SANTA PAULA, CALIF BELL 47G CR- 0 0 1 NONCOMMERCIAL COMMERCIAL, FL.INSTR., AGE 37, 10100 TOTAL TIME - 1245 PX- 0 0 1 PRACTICE N10712 DAMAGE-SUBSTANTIAL HOURS, 5050 IN TYPE, NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION HARD LANDING 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 MICKLETON,NJ BENSEN B8M NO CERTIFICATE, AGE 31, CR- 1 0 0 INSTRUCTIONAL TIME - 1300 N8713R PX- 0 0 0 TRAINING UNK/NR TOTAL HOURS, DAMAGE-DESTROYED UNK/NR IN TYPE, NOT INSTRUMENT RATED. NAME OF AIRPORT - PEASLEE TYPE OF ACCIDENT PHASE OF OPERATION ROLL OVER 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 MANDEVILLE,LA SIKORSKY H-19G CR- 0 0 2 COMMERCIAL COMMERCIAL, AGE 47, TIME - 1715 PX- 0 0 0 CONSTRUCTION 11975 TOTAL HOURS, 1200 IN N1023 DAMAGE-SUBSTANTIAL TYPE, NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION PROPELLER/ROTOR FAILURE: TAIL ROTOR IN FLIGHT: NORMAL CRUISE ROLL OVER 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

FILE	DATE	LOCATION	AIRCRAFT DATA		JUR: F	5 M/	'N	FLIGHT PURPOSE	PILOT DATA
3-4167	11/24/68 I TIME - 1500		BENSEN B8M N4791G DAMAGE-DESTROYED	CR-	0	0	1	NONCOMMERCIAL PLEASURE	ATR,FLIGHT INSTR., AGE 28, 4964 TOTAL HOURS, 85 IN TYPE, INSTRUMENT RATED.
		DENT ROTOR FAILURE: M. ITH GROUND/WATER				TAK	εO	F OPERATION FF: INITIAL CLIMB IGHT: UNCONTROLLED DESCE	
	MISCELLANE MISCELLANE FACTOR	- RDTOR ASSEMBL OUS ACTS,CONDITI OUS ACTS,CONDITI	IES: MAIN ROTOR BLADES DNS - MATERIAL FAILURE DNS - VIBRATION, EXCESS	IVE					
		INCHES OF ROTOR	DNS - SEPARATION IN FL BLADE BROKE OFF.	IGHI					
3-4202	7/27/68 M TIME - 0830		BENSEN B-8M NNONE DAMAGE-SUBSTANTIAL					NDNCOMMERCIAL PLEASURE	STUDENT, AGE 30, 95 TOTA Hours, 0 in Type, not Instrument rated.
	TYPE OF ACCI COLLISON W	DENT ITH GROUND/WATER						F OPERATION IGHT: UNCONTROLLED DESCE	NT
		OUS - UNDETERMIN	ED POSITION FROM 150 FT.						
3-4203	10/26/68 C TIME - 1120	HICAGO,ILL	BELL 47G-4A N4032G DAMAGE-SUBSTANTIAL					MISCELLANEOUS Police Patrol	PRIVATE, AGE 37, 136 Total Hours, All In Type, not instrument Rated.
	TYPE OF ACCI PROPELLER/ HARD LANDI	ROTOR FAILURE: T	AIL ROTOR		; PI	ΙN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTATI	
	MISCELLANE PILOT IN C EMERGENCY CI	- ROTOR ASSEMBL DUS ACTS,CONDITI DMMAND - IMPROPE RCUMSTANCES - FO	IES: TAIL ROTOR BLADES DNS - FATIGUE FRACTUF R OPERATION OF FLIGHT RCED LANDING OFF AIRPC E,SERIAL NUMBER A3-382	E Contr Irt of		ND			

•

BRIEFS OF ACCIDENTS FILE DATE AIRCRAFT DATA FLIGHT PILOT DATA LOCATION INJURIES F S M/N PURPOSE _____ _____ 3-4205 11/2/68 HANAPEPE.HAWAII BELL 2064 CR- 0 C 1 COMMERCIAL COMMERCIAL, AGE 25, 2071 TIME - 1050 N6255N PX- 0 0 4 AIR TAXI-PASSG TOTAL HOURS. 276 IN TYPE. DAMAGE-SUB STANTIAL NOT INSTRUMENT RATED. NAME OF AIRPORT - PORT ALLEN PHASE OF OPERATION TYPE OF ACCIDENT 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. COMMERCIAL, AGE 51, 1071 BELL 47G-5 CR- 0 G 1 NONCOMMERCIAL 3-4207 11/18/68 CTY OF INDUSY, CAL PX- 0 0 0 PRACTICE TOTAL HOURS, 215 IN TYPE. TIME - 1335 N8586F DAMAGE-SUBSTANTIAL 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. COMMERCIAL, FL.INSTR., 3-4208 11/9/68 SAN CARLOS, CALIF HUGHES 269B CR- 0 0 2 INSTRUCTIONAL AGE 28, 396 TOTAL HOURS, TIME - 1500 N9349F PX- 0 0 0 DUAL DAMAGE-DESTROYED 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.

				5 OF A					
FILE	DATE	LOCATION	AIRCRAFT DATA			S M	ZN	ELIGHT PURPOSE	PILOT DATA
3-4219	11/4/68 TIME - 09	NR.KENAI,ALAS 913	BELL 47G-4A N1396X DAMAGE-DESTROYED					COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 47, 4739 TOTAL HOURS, 2570 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF A COLLIDE ROLL OV	D WITH: OBJECT			P	ΤA	KEO	F OPERATION FF: VERTICAL NG: LEVEL OFF/TOUCHDON	
	FACTOR	CAUSE N COMMAND - IMPROPER ANEOUS ACTS,CONDITIO						NCY AND HIDGMENT	
								.ROLLED DOWN MT.BLOOD	ALCOHOL 94 MG PCT₀
3-4249	11/23/68 TIME - 14	TREMONTON, UT 20	HUGHES 269B N9365F DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL PLEASURE	COMMERCIAL, AGE 19, 184 Total Hours, 139 in Type, Not instrument rated.
	TYPE OF ACCIDENT PROPELLER/ROTOR FAIL Hard Landing					IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTA	
	MISCELL PERSONN PILOT I EMERGENCY	RAFT - TRANSMISSION R ANEOUS ACTS,CONDITIO IEL - PRODUCTION-DESI IN COMMAND - IMPROPER (CIRCUMSTANCES - FOR	NS - MATERIAL FAILUR GN: SUBSTANDARD QUAL OPERATION OF FLIGHT CED LANDING OFF AIRPO	E ITY COL CONTRI DRT ON	NTR DLS LA			SHAFT O IMPROPER P/N ON DRIV	VE SHAFT.
3-4257	9/25/68 TIME - 14		HUGHES 269B N9325F DAMAGE-DESTROYED					NONCOMMERCIAL PRACTICE	ATR,FLIGHT INSTR., AGE 46, 7000 TOTAL HOURS, 35 IN TYPE, NOT INSTRUMENT RATED.
	NAME OF A Type of A Miscell				P			F OPERATION NG: POWER-OFF AUTOROT	
	PROBABLE		NS - SIMULATED CONDI	TTONS					

~

			BRIEF	S OF ACCIDENTS		
FILE	DATE L	OCATION	AIRCRAFT DATA	F SM/N		PILOT DATA
3-4263	10/27/68 BROOM TIME - 1430	SVILLE, FLA	CARVER COPTER N54055 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0		PRIVATE, AGE 37, 129 Total Hours, 40 in Type, Not instrument rated.
	NAME OF AIRPORT Type of accident Engine failure Collided With	COR MALFUNCTI		PHASE IN F	DF OPERATION IGHT: NORMAL CRUISE ING: FINAL APPROACH	
	MISCELLANEOUS TERRAIN - HIG COMPLETE POWER L	ACTS, CONDITION H OBSTRUCTIONS OSS - COMPLETE	TE PREFLIGHT PREPARA NS - FUEL EXHAUSTION E ENGINE FAILURE/FLA CED LANDING OFF AIRP	MEOUT-1 ENGINE	ANNING	
3-4271	12/3/68 BARRO TIME - 1045	DW,ALAS	BELL 47J-2 N73960 DAMAGE-SUBSTANTIAL		MISCELLANEOUS SEARCH AND RESCUE	COMMERCIAL, AGE 25, 1213 Total Hours, 36 in Type, Not instrument rated.
	NAME OF AIRPORT TYPE OF ACCIDENT PROPELLER/ROTO			PHASE	DF OPERATION : AERIAL TAXI TO TAKE	
	MISCELLANEOUS ROTORCRAFT - F MISCELLANEOUS	- FOREIGN OBJ ROTOR ASSEMBLI ACTS,CONDITIO	TE PREFLIGHT PREPARA ECT DAMAGE ES: TAIL ROTOR BLADE NS - OVERLOAD FAILUR EC LANDING ON AIRPO	S		
	REMARKS- FABRIC		ECTIONAL CONTROL PRO ER PICKED UP BY M/R		R.PLT FAILED TO CLEAR	AREA OR SECURE COVER.
3-4273	12/14/68 DDONM TIME - 0800	VELL, TEX	HUGHES 269A N8926F DAMAGE-DESTROYED	PX- 0 C 1	PLEASURE	PRIVATE, AGE 29, 152 Total Hours, all In Type, not Instrument Rated.
	TYPE OF ACCIDENT COLLISON WITH	GROUND/WATER:	UNCONTROLLED	PHASE IN F	DF OPERATION IGHT: UNCONTROLLED D	-
	PROBABLE CAUSE PILOT IN COMM PILOT IN COMM PILOT IN COMM	AND - FAILED T AND - IMPROPER AND - IMPROPER	D MAINTAIN ADEQUATE OPERATION OF POWERP OPERATION OF FLIGHT LIMBING TURN AT 50 F	ROTOR R.P.M. LANT & POWERPL CONTROLS	ANT CONTROLS	

			BRIEF	SOFA	CC I	DENT	'S		
FILE	DATE	LOCATION	AIRCRAFT DATA			IES S M/			PILOT DATA
3-4274		COVINGTON, LA	SIKORSKY H-19G N1029 DAMAGE-SUBSTANTIAL	CR- PX-				COMMERCIAL CONSTRUCTION	COMMERCIAL, AGE 48, 12300 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF AC ENGINE F HARD LAN	AILURE OR MALFUNC	TION		Ρ	TAK	KE0	F OPERATION FF: INITIAL CLIMB NG: POWER-OFF AUTOROTATIV	E LANDING
	POWERPLA MISCELLA PILOT IN COMPLETE P EMERGENCY REMARKS- S								
3-4281	5/11/68 TIME - 073	JACKSON,MONT 50	BELL 47G3B1 N7920S DAMAGE-SUBSTANTIAL	PX-				NONCOMMERCIAL WILD LIFE SURVEY	COMMERCIAL, FL.INSTR., AGE 25, 5500 TOTAL HOURS 368 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF AC ENGINE F HARD LAN								
	HARD LANDING LANDING LANDING: POWER-OFF AUTOROT 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

.

				S OF A					
FILE	DATE	LOCATION	AIRCRAFT DATA	IM	IJUR F	LI E S	ES M/N	FLIGHT Purpose	PILOT DATA
3-4360	8/5/68 TIME - 11	SIPESVILLE,PA 15	BELL 47G381 N73247 DAMAGE-DESTROYED	CR-	1	C	0 (COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 29, 654 Total Hours, all in Type, not instrument Rated.
	TYPE OF A Hard Lai Propell		PERSON			L	AND	OF OPERATION Ing: Power-on Landing IC: Idling Rotors	
	MISCELL PILOT I ROTORCR MISCELL TERRAIN PILOT I	CAUSE N COMMAND - INADEQUA ANEOUS ACTS,CONDITIO N COMMAND - FAILED T AFT - ROTOR ASSEMBLI ANEOUS ACTS,CONDITIO - ROUGH/UNEVEN N COMMAND - OPERATED CIRCUMSTANCES - FOR	NS - IMPROPERLY LOAD O MAINTAIN ADEQUATE ES: DROOP STOPS NS - OVERLOAD FAILUR CARELESSLY	ED AIF ROTOR	R.P	AFT P∎M	「₩E 1.		
	KIND OF PILOT'S GOGGLES COCKPIT TANK/HO ELEVATI PROCEDU FIRE AFTE	DURS IN CROP CONTROL CROP - POTATOES SEAT BELT - FASTENE - NOT USED CRASHPAD - NOT INST PPER-LOCATION - OTHE ON-AREA BEING TREATE RE TURNAROUND - SECO R IMPACT	D-PROPERLY ALLED R D-FEET - 2500 ND 1/3 OF TURN		T G C C T S	KIND OF OPERATION - SPAN TYPE OF CHEMICAL USED - GLOVES - NOT USED CRASH HELMET - AVAILABLE CRASH BAR - NOT INSTALLE TERRAIN-TYPE - LEVEL,FL/ SWATH RUN-HOW FLOWN - DO			QUID CHEMICAL-TOXIC SED NIND
	REMARKS-	337 LBS OVER GRUSS.L	OST RPM DURING CLIME	BROKE	EN S	ти)P L	ET M/R FLAP LOW•PLT (GOT OUT,WAS HIT BY M/R.
3- 4363		SHELBURNE, VT 30	BENSEN B8M N4476 DAMAGE-DESTROYED					MISCELLANEOUS Test	PRIVATE, AGE 35, 126 Total Hours, 10 in type, Not instrument rated.
	TYPE OF A	FAILURE OR MALFUNCTI			P	L	AND	OF OPERATION Ing: TRAFFIC PATTERN- Ing: Roll	
	PERSONN TERRAIN PARTIAL P EMERGENCY	ANT - IGNITION SYSTE	VICING,INSPECTION: I LOSS OF POWER - 1 EM	GINE				TENANCE AND INSPECTIO	DN

FILE	DATE	LOCATION		INJURIES F S M/	N. P	LIGHT URPOSE	PILOT DATA
		POINT BARROW,ALAS		CR- 0 0 PX- 0 0	1 COMM	ERCIAL	COMMERCIAL, AGE 31, 2871 TOTAL HOURS, 825 IN TYPE NOT INSTRUMENT RATED.
	NAME OF AL TYPE OF AC MISCELLA HARD LAN	NEOUS		IN		RATION NORMAL CRUISE OWER-ON LANDING	
	WEATHER WEATHER BE WEATHER FO	N COMMAND - CONTINUE - ICING CONDITIONS- RIEFING - NO BRIEFIN DRECAST - UNKNOWN/NO CIRCUMSTANCES - FOR		NG RAIN,ETC. NT ON LAND		IONS	
	VISIBILITY 1/2 MILE OBSTRUCTIO	TION YNDT REPORTED Y AT ACCIDENT SITE E OR LESS DNS TO VISION AT ACC	IDENT SITE	UNK PRECI NON TEMPE	NOWN/NO	CCIDENT SITE T REPORTED N AT ACCIDENT SITE F	
	IFR	EATHER CONDITIONS	OG₽CAUSED LOSS OF RPM	NON		HT PLAN	
3-4371	7/25/68 TIME - 113	NR•MINCHUMINA•ALAS 15	BELL 47G-2 N6708D DAMAGE-SUBSTANTIAL	CR- 0 0 PX- 0 0	1 COMM 1 ASSC	ERCIAL IC FIRE CTL ACTIVIT	COMMERCIAL, FL.INSTR., IE AGE 36, 5200 TOTAL HOURS 800 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF AG Engine I Hard Lai	FAILURE OR MALFUNCTI	ON	TAK	EOFF: 1	RATION NITIAL CLIMB OWER-OFF AUTOROTAT	
	PILOT I	ANT - MISCELLANEOUS: N COMMAND - IMPRCPER DWER LOSS - PARTIAL	POWERPLANT FAILURE F OPERATION OF FLIGHT LOSS OF POWER - 1 ENG CED LANDING OFF AIRPO	CONTROLS INE	NED RE#	SONS	
3-4378	11/23/68 TIME - 14	MARION,MASS 55	BENSEN B−8 N592B4 DAMAGE−DESTROYED	CR- 1 0 PX- 0 0			PRIVATE, AGE 36, 499 Total Hours, 28 In Type, Not Instrument Rated.
	TYPE OF A Colliso	CCIDENT N WITH GROUND/WATER:				RATION UNCONTROLLED DESC	
	PROBABLE						

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT PILOT DATA F S M/N PURPOSE --3-4381 10/24/68 PHOENIX.ARIZ HUGHES 269A CR- 0 0 1 MISCELLANEOUS COMMERCIAL, AGE 34, 2700 TOTAL HOURS, 51 IN TYPE. TIME - 1545 N8717F PX- 0 0 1 FERRY DAMAGE-SUBSTANTIAL NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION IN FLIGHT: NORMAL CRUISE MISCELLANEDUS LANDING: POWER-OFF AUTOROTATIVE LANDING HARD LANDING PROBABLE CAUSE ATREBAME - FLIGHT CONTROL SUBFACES: HOBIZONTAL 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. COMMERCIAL, AGE 51, 3-4391 11/12/68 LONG BEACH, CALIF BELL 206A CR- 0 0 1 NONCOMMERCIAL TIME - 1345 $PX \rightarrow 0 0 0 CORP/EXEC$ 15000 TOTAL HOURS, 700 IN NAGAMR DAMAGE-SUBSTANTIAL TYPE, NOT INSTRUMENT RATED NAME OF AIRPORT - LONG BEACH PHASE OF OPERATION TYPE OF ACCIDENT COLLIDED WITH: FENCE, FENCEPOSTS LANDING: FINAL APPROACH PROBABLE CAUSE PILOT IN COMMAND - MISJUDGED CLEARANCE REMARKS- 4 FT CHAIN LINK FENCE THAT SURROUNDED AREA ON ARPT USED AS HELIPORT. COMMERCIAL, FL.INSTR., 3-4420 11/27/68 CROSSVILLE, TENN BELL 47G-2 CR- 0 0 1 COMMERCIAL TIME - 0625 PX- 0 0 ASSOC CROP CTL ACTIVITIE AGE 39, 1614 TOTAL HOURS, N1200W DAMAGE-SUBSTANTIAL 1339 IN TYPE, NOT INSTRU-MENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION IN FLIGHT: EN ROUTE TO RELOADING AREA ENGINE FAILURE OR MALFUNCTION COLLIDED WITH: TREES 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.

FILE	DATE	LOCATION	AIRCRAFT DATA			R I E S	-	FLIGHT I PURPOSE	PILOT DATA			
3-442 1′	11/27/68 TIME - 142	CASTAIC,CALIF	BELL 47G3B1 N73957 DAMAGE-SUBSTANTIAL	PX-				COMMERCIAL CTR PASSG-D	COMMERCIAL, FL.INSTR., AGE 50, 11800 TOTAL Hours, 1000 In Type, Not Instrument rated.			
	TYPE OF ACCIDENT PHASE OF OPERATION COLLIDED WITH: WIRES/POLES IN FLIGHT: LOW PASS											
	EMERGENCY	COMMAND - FAILED CIRCUMSTANCES - FO	TO SEE AND AVOID OBJE RCED LANDING OFF AIRP SPECTED OR KNGWN AIRC HER DAMAGE.	ORT ON	L	AND		TIONS				
3-4427	5/21/68 TIME - 133	DAYTON, OHIO Q	HUGHES 269B N9479F DAMAGE-DESTROYED					NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 52, 4314 Total Hours, 78 in Type, Not instrument rated.			
	TYPE OF AC PROPELLE	RPORT - DAYTON HEL CIDENT R/ROTOR FAILURE: T WITH GROUND/WATER	PORT AIL ROTOR			T.	AKE	OF OPERATION OFF: INITIAL CLIMB LIGHT: UNCONTROLLED DE				
	MISCELLA EMERGENCY	FT - ROTOR ASSEMBL NEOUS ACTS,CONDITI CIRCUMSTANCES - FO DI	IES: TAIL ROTOR BLADE ONS - MATERIAL FAILUR RCED LANDING OFF AIRP RECTIONAL CONTROL PRO SECTION BECAME UNBOND	E ORT ON BLEM			D F	ROM BLADE SPAR.				
3-4434	10/20/68 TIME - 155	MARION,IOWA O	AIR-SPACE 18A N6105S DAMAGE-DESTROYED					INSTRUCTIONAL TRAINING	STUDENT, AGE 34, 40 TOTA Hours, 8 in type, not Instrument rated.			
	TYPE OF AC	RPORT - LINN-AIRE CIDENT WITH GROUND/WATER	-					OF OPERATION LIGHT: UNCONTROLLED DE				
	MISCELLA FIRE AFTER	COMMAND - IMPROPE NEOUS ACTS,CONDITI IMPACT	R OPERATION OF FLIGHT ONS - POORLY PLANNED APPCH.ACFT ROLLED TO	APPROA	СН	-						

BRIEFS OF ACCIDENTS FILE DATE LOCATION AIRCRAFT DATA INJURIES FLIGHT PILOT DATA F S M/N PURPOSE 3-4439 12/18/68 STORRIE, CALIF HILLER ACFT FH1100 CR- 0 0 1 COMMERCIAL COMMERCIAL, FL.INSTR., TIME - 1330 N748FH PX- 0 1 0 CTR PASSG-D AGE 29, 3908 TOTAL HOURS, DAMAGE-SUBSTANTIAL 549 IN TYPE, NOT INSTRU-MENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION PROPELLER/ROTOR ACCIDENT TO PERSON STATIC: IDLING ROTORS PROBABLE CAUSE PILOT - FAILED TO INSTR PX IN PROPER APPCH TO ACFT. PERSONNEL - MISCELLANEOUS-PERSONNEL: PASSENGER REMAKKS- WALKED INTO SPINNING T/R. 3-4484 12/28/68 RENTON, WASH HUGHES 269A CR- 0 0 1 INSTRUCTIONAL COMMERCIAL, AGE 32, 335 TIME - 1345 N8780F PX- C O C SOLO TOTAL HOURS, 12 IN TYPE, DAMAGE-SUBSTANTIAL INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION ROLL OVER 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 LAKE WALES, FLA HUGHES 269A CR- 0 0 1 NONCOMMERCIAL PRIVATE, AGE 42, 765 TOTAL HOURS, 745 IN TYPE, TIME - 1240 N8714F PX- 0 0 0 BUSINESS DAMAGE-SUBSTANTIAL NOT INSTRUMENT RATED. TYPE OF ACCIDENT PHASE OF OPERATION MISCELLANEOUS IN FLIGHT: NORMAL CRUISE HARD LANDING 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

	DATE LOCAT			JURIES = SM/N		PILOT DATA
	10/13/68 CHULUOTA, TIME - 0845		PX-		MISCELLANEOUS DEMONSTRATION	STUDENT, AGE 36, 400 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
	NAME OF AIRPORT - FL TYPE OF ACCIDENT PROPELLER/ROTOR FA COLLISON WITH GROU			IN FL	DF OPERATION IGHT: LOW PASS IGHT: UNCONTROLLED DES	
		ASSEMBLIES: MAIN ROTOR ,CONDITIONS - MATERIAL				х.
		,CONDITIONS - SEPARATIO INSERT FAILED THROUGH T		АТТАСН ВС	DLT HOLE AT ROTOR HEAD	ATTACHMENT.
3-4545	10/15/68 NR.PRUDHOE TIME - 0815	BAY,ALAS BELL 47J-2 N8438E DAMAGE-DESTR	РХ-		COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL•INSTR•, AGE 34, 5500 TOTAL HOURS 4300 IN TYPE, NOT INSTRU MENT RATED•
	TYPE OF ACCIDENT Collison with grou	ND/WATER: CONTROLLED			DF OPERATION IGHT: NORMAL CRUISE	PLAT ANILUS
	TERRAIN - SNOW-COV MISCELLANEOUS ACTS	SPATIAL DISORIENTATION ERED ,CONDITIONS - WINDSHIEL TH PRECEPTION DURING 18	.D,DIRTY,FOGG			A OF BUBBLE FOGGED UP
3-4571	12/17/68 TEHACHAPI TIME - 1434	,CALIF HUGHES 369H N9001F DAMAGE-SUBST	РХ-	0 0 1 0 0 0	MISCELLANEOUS TEST	COMMERCIAL, FL.INSTR., AGE 47, 4880 TOTAL HOURS 1250 IN TYPE, NOT INSTRU MENT RATED.
	NAME OF AIRPORT - TE TYPE OF ACCIDENT HARD LANDING	НАСНАРІ			DF OPERATION Ing: Power-OFF Autorot/	
		,CONDITIONS - SIMULATED IMPROPER OPERATION OF		OLS		

			BRIEFS	OF A	CCI	DENT	s		
FILE	DATE	LOCATION	AIRCRAFT DATA		F :	S M/	N	FLIGHT PURPOSE	PILOT DATA
3-4574	12/19/68 TIME - 144	WATAUGA,TEX 15	BELL 47G-2 N17121 DAMAGE-SUBSTANTIAL	CR- PX-					COMMERCIAL, AGE 32, 187 Total Hours, 18 in Type, Not Instrument Rated.
	TYPE OF AC Hard Lan							- OPERATION NG: POWER-OFF AUTOROTATIVE	
	PILOT IN PILGT IN	NEOUS ACTS,CONDITIC 1 COMMAND - ATTEMPTE 1 COMMAND - IMPROPER	INS - SIMULATED CONDIT D OPEPATION BEYOND EX OPERATION OF FLIGHT ED BY INSTR TO PRACTI	PERIE	ROLS				
3-4584	12/26/68 TIME - 103	EUREKA,CALIF	HUGHES 269B N9327F DAMAGE-SUBSTANTIAL	PX-					COMMERCIAL, AGE 42, 3700 TOTAL HOURS, 130 IN TYPE, NOT INSTRUMENT RATED,
	TYPE OF. AC ROLL OVE							- ÒRERATION NG: LEVEL OFF/TOUCHDOWN	
	MISCELLA	A COMMAND - SELECTED) UNSUITABLE TERRAIN DNS - DISREGARD OF GUO EN SNOW WITHOUT SNOW S					ACTICE	
3-4596	6/7/68 TIME - 075	BONNERS FERRY,ID	N1323X					MISCELLANEOUS FERRY	COMMERCIAL, AGE 24, 2031 Total Hours, 933 IN Type,
	TYPE OF AC Collided	CIDENT) WITH: WIRES/POLES	DAMAGE-DESTROYED					- OPERATION IGHT: NORMAL CRUISE	NOT INSTRUMENT RATED.
	MISCELLA FACTOR	N COMMAND - FAILED T ANEOUS ACTS,CONDITIC ANEOUS ACTS,CONDITIC	TO SEE AND AVOID OBJEC DNS - UNWARRANTED LOW DNS - ALCHOLIC IMPAIRM	FLYIN	١G				

`

FILE	DATE	LOCATION	AIRCRAFT DATA	IN	JUR F			FL IGH PURPO		PILOT DATA
		CHULA VISTA,CALIF		CR- PX-	0 0	0	1 0	COMMERCI ASSOC CR	AL OP CTL ACTIVITIE	COMMERCIAL, FL.INSTR., AGE 39, 4100 TOTAL HOURS, 4000 IN TYPE, NOT INSTRU- MENT RATED.
	TYPE OF ACCI Engine Fai Hard Land	LURE OR MALFUNCTI	ÓN		Ρ	١N	N FL		ON ROUTE TO TREAT CI -OFF AUTOROTATIVI	ROP
	MISCELLANE PILOT IN C COMPLETE PO	T - ENGINE STRUCTU EOUS ACTS,CONDITIC COMMAND - IMPROPER VER LOSS - COMPLET	RE: MASTER AND CONNEC NS - MATERIAL FAILURE OPERATION OF FLIGHT E ENGINE FAILURE/FLAM CED LANDING OFF AIRPO	E CONTR 1EOUT-	OLS	NG	INE			
	KIND OF CH PILOT'S SH GOGGLES - COCKPIT CH TANK/HOPPH	RS IN CROP CONTROL Rop - Tomatoes Eat belt - Unknown	ALLED S	TED	T G C C	YPI GLOV RAS	E OF /ES SH H SH B	CHEMICAL - NOT USE ELMET - A AR - NOT	N – SPAYING CROP USED – LIQUID CI D VAILABLE-USED INSTALLED EING TREATED-FEE	HEMICAL-TOXIC
-4649	7/23/68 NR TIME - 1320	NORTH FORK,ID						COMMERCI CTR PASS		COMMERCIAL, FL.INSTR., AGE 33, 7000 TOTAL HOURS, 300 IN TYPE, NCT INSTRU- MENT RATED.
	TYPE OF ACC Collided Roll Over	WITH: OBJECT			Ρ	11	N FL	F OPERATI IGHT: HOV NG: LEVEL		MENI KALEU.
	PROBABLE CAU PILOT IN (FACTOR	JSE COMMAND - MISJUDGE	D CLEARANCE							
	TERRAIN - FIRE AFTER	OTHER Impact	UNSUITABLE TERRAIN		. 16	:00	= .c		DOWN MT SIDE.	
									DOWN IN SIDE	
-4651	1/24/68 TIME - 0720		BELL 47G-5 N1329X DAMAGE-SUBSTANTIAL					INSTRUCT TRAINING		COMMERCIAL, AGE 24, 174 Total Hours, 14 In Type, Not Instrument Rated.
	NAME OF AIR TYPE OF ACC HARD LAND ROLL OVER	ING			Ρ	L	ANDI		ON -on landing off/touchdown	
	PERSONNEL	COMMAND - IMPROPER	OPERATION OF FLIGHT	ING OF	ST ST	UD				

1

			BRIEFS	0F /	4001	DENTS			
FILE	DATE	LOCATION	AIRCRAFT DATA			IES S M/N			PILOT DATA
3-4673	8/13/68 NR TIME - 0922	•TWIN FALLS,ID	N8491E	PX-	0 0	0 2 0 0	INSTRUCTIONAL CHECK		COMMERCIAL, AGE 24, 238 TOTAL HOURS, 54 IN TYPE NOT INSTRUMENT RATED.
	TYPE OF ACC Engine Fa Hard Land	ILURE OR MALFUNCTI	DAMAGE-SUBSTANTIAL ON			IN FL	DF OPERATION IGHT: AUTOROTATIVE DE ING: POWER-OFF AUTORO		
	MISCELLAN CHECK PIL CHECK PIL CHECK PIL FACTOR PILOT IN COMPLETE PO EMERGENCY C	EOUS ACTS,CONDITIO EOUS ACTS,CONDITIO OT - IMPROPER OPER OT - FAILED TO FOL DT - IMPROPER OPER COMMAND - CONTROL WER LOSS - COMPLET IRCUMSTANCES - FOR	E ENGINE FAILURE/FLAM CED LANDING OFF AIRPO	POWE RES,DI ROLS IEOUT-	IREC	TIVES NGINE ND		2000	RPM.
3-4699	12/21/68 TIME - 0850	BRIGHTWOOD, OREG	HILLER UH-12E N382C DAMAGE-SUBSTANTIAL		0 G	0 1 0 1	COMMERCIAL ASSOC CROP CTL ACTIV	ITIE	COMMERCIAL, AGE 37, 397 TOTAL HOURS, 1200 IN TYPE, NOT INSTRUMENT RATED.
	TYPE OF ACC COLLIDED 1	IDENT WITH: DIRT BANK			Ρ		OF OPERATION Ing: Power-on Landing		
	PROBABLE CA PILOT IN O FACTOR WEATHER -	COMMAND - MISJUDGE	D CLEARANCE						
	VISIBILITY 3 3 MILES O	OT REPORTED AT ACCIDENT SITE	IDENT SITE		Р	1500 RECIPI RAIN	; AT ACCIDENT SITE TATION AT ACCIDENT SI NTURE-F	TE	
		THER CONDITIONS			т		FLIGHT PLAN		
	KIND OF CA PILOT'S SI GOGGLES - COCKPIT C. TANK/HOPPI	RS IN CROP CONTROL ROP - FOREST-TREES EAT BELT - FASTENE	D-PROPERLY ALLED S		T G C C	YPE OF LOVES RASH F RASH F	: OPERATION - SEEDING : CHEMICAL USED - DRY - USED HELMET - AVAILABLE-USE AAR - NOT INSTALLED H-TYPE - MOUNTAINOUS	CHEMI	

FILE	DATE	LOCATION	AIRCRAFT DATA			IES S M/		FLIGHT PURPOSE		PILOT DATA
3-4716	FIRE AFTER	CCIDENT ER/ROTOR FAILURE: MA			1 P	0 Hase	0 E 0	COMMERCIAL OTHER F OPERATION IGHT: NORMAL	CRUÏSE	COMMERCIAL, AGE 41, 2388 TOTAL HOURS, 59 IN TYPE, NOT INSTRUMENT RATED.
3-4734	8/28/68 TIME - 170 TYPE OF A0	CCIDENT	HILLER UH-12E N5357V DAMAGE-DESTROYED		1	1 Hase	0 E 0	COMMERCIAL CTR PASSG-D F OPERATION		COMMERCIAL, FL.INSTR., AGE 26, 2344 TOTAL HOURS 500 IN TYPE, NOT INSTRU- MENT RATED.
	PROBABLE (ANEOUS - UNDETERMINE	D			IN	FL	IGHT: NORMAL	CRUISE	
3-4750	6/27/68 TIME - 080 NAME OF A1		BELL 47G-5 N1393X Damage-substantial					INSTRUCTION/ CHECK	AL	COMMERCIAL, AGE 42, 227 Total Hours, 28 In Type, Not Instrument Rated.
	TYPE OF AC		UNCONTROLLED					F OPERATION IGHT: UNCONTR	ROLLED DESCENT	
	PILOT IN PILOT IN PILOT IN	ANEOUS ACTS,CONDITIC N COMMAND - MISJUDGE N COMMAND - IMPROPER N COMMAND - IMPROPER	INS - SIMULATED CONDIT D ALTITUDE OPERATION OF POWERPL OPERATION OF FLIGHT SJUDGED ALT DURING AU	ANT &	ÓLS				ING IN T/R GRN	D STRIKE AT FLARE
3-4843	12/15/68 TIME - 13	SYLMAR,CALIF 50	ENSTROM F-28 N4465 DAMAGE-SUBSTANTIAL					INSTRUCTION CHECK	AL	COMMERCIAL, FL.INSTR., AGE 28, 3001 TOTAL HOURS 28 IN TYPE, INSTRUMENT RATED.
· ·	TYPE OF AC HARD LAN	CCIDENT NDING			P			F OPERATION NG: POWER-OF	- AUTOROTATIVE	
	PILOT IN CHECK PI	ANEOUS ACTS,CONDITIC N COMMAND - IMPROPER ILOT - INADEQUATE SU	NNS - SIMULATED CONDIT OPERATION OF FLIGHT IPERVISION OF FLIGHT EXAMINER ALLOWED PLT	CONTR) S	TEEPLY.T/R SI	FRUCK GRND.	

.

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	 Inj		5	FL IGHT	PILOT DATA				
					S							
3-4844	11/14/68 TIME - 1205	HAMPDEN,MASS					COMMERCIAL POWER/PIPELINE	COMMERCIAL, FL.INSTR., AGE 47, 15930 TOTAL Hours, 310 in Type, Not Instrument rated.				
		TYPE OF ACCIDENT					F OPERATION					
	ENGINE FAILURE OR MALFUNCTION IN FLIGHT: NORMAL CRUISE COLLIDED WITH: TREES LANDING: POWER-OFF AUTOROTATIVE LANDING											
	EMERGENCY (IRCUMSTANCES - FOR	E ENGINE FAILURE/FLA ED LANDING OFF AIRPA ND BEARING LOCKUP CAN	ORT ON	LAND		ESSOR BEARING TO FAIL.					
3-4867	EMERGENCY (REMARKS- SE	IRCUMSTANCES - FOR PARATOR FRACTURE AN ROBINSON CREEK,KY	ED LANDING OFF AIRPO	ORT ON USED NR CR-	LAND 2 C	OMPR		COMMERCIAL, FL.INSTR., Age 46, 6775 TOTAL HOURS, 1010 IN TYPE, NOT INSTRU- MENT RATED.				
3-4867	EMERGENCY (REMARKS- SE 7/28/68 TIME - 0655 TYPE OF ACC	IRCUMSTANCES - FORG PARATOR FRACTURE AN ROBINSON CREEK,KY	CED LANDING ÖFF AIRPA ND BEARING LGCKUP CAU SIKORSKY S-58A N4247 DAMAGE-SUBSTANTIAL	ORT ON USED NR CR-	LAND 2 C 0 C 0 C	OMPR 1 1 Se c	COMMERCIAL CONSTRUCTION F OPERATION	AGE 46, 6775 TOTAL HOURS				
3-4867	EMERGENCY (REMARKS- SE 7/28/68 TIME - 0655 TYPE OF ACC	IRCUMSTANCES - FORG PARATOR FRACTURE AN ROBINSON CREEK,KY SIDENT ILURE OR MALFUNCTIO	CED LANDING ÖFF AIRPA ND BEARING LGCKUP CAU SIKORSKY S-58A N4247 DAMAGE-SUBSTANTIAL	ORT ON USED NR CR-	LAND 2 C 0 C 0 C PHA	DMPR 1 1 SE O N FL	COMMERCIAL CONSTRUCTION	AGE 46, 6775 TOTAL HOURS 1010 IN TYPE, NOT INSTRU- MENT RATED.				

			BRIEF						
FILE		LOCATION		f	-	SM	/N	PURPOSE	PILOT DATA
-4878	12/16/68 L TIME - 074	JNKNOWN/NOT REPORTED 45	BELL 47G3B1 N1321X DAMAGE-SUBSTANTIAL	.CŘ− PX−	0 6	C U	1 0	NONCOMMERCIAL CORP/EXEC	COMMERCIAL, AGE 28, 2950 Total Hours, 750 in Type, Not instrument rated.
	TYPE OF AC UNDERSHO		JRT			LA	NDI	F OPERATION NG: FINAL APPROACH NG: FINAL APPROACH	
	FACTOR WEATHER WEATHER BR	CAUSE N COMMAND - MISJUDGED - UNFAVORABLE WIND RIEFING - NO BRIEFIN DRECAST - UNKNOWN/NO	CONDITIONS G RECEIVED	TUDE OF	R C	LEA	RAN	CE	
		/NOT REPORTED / AT ACCIDENT SITE				15	00 IPI	AT ACCIDENT SITE TATION AT ACCIDENT SI	TE
	OBSTRUCTION NONE	TEMPERATURE-F 40 WIND VELOCITY-KNOTS							
	90 Type of Wi VFR	EATHER CONDITIONS	SETTLE INTO TREES SH	ORT OF	Т	35 TYPE NC	OF	FLIGHT PLAN D LDG AREA. WIND GUST	ING 45K.
-4890		MISSOULA,MONT 23	BELL 206A N4735R DAMAGE-SUBSTANTIAL	PX-	0	0 C	1 2	CUMMERCIAL POWER/PIPELINE	COMMERCIAL, AGE 49, 13000 Total Hours, 64 IN Type, not instrument Rated.
	TYPE OF AC Engine I Hard Lai			IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROT			
	POWERPL MISCELL PERSONN PARTIAL PI EMERGENCY	ANT - FUEL SYSTEM: FU ANT - FUEL SYSTEM: L ANEDUS ACTS,CONDITIO EL - MAINTENANCE,SER OWER LOSS - PARTIAL CIRCUMSTANCES - FOR	INES AND FITTINGS NS - DISCONNECTED VICING,INSPECTICN: I LCSS OF POWER - I EN CED LANDING OFF AIRP	GINE ORT ON	L	AND		ENANCE AND INSPECTION	URBINE GOVERNOR.

BRIEFS OF ACCIDENTS

		`	BRIEFS	S OF A	CCI	DEN	ΤS		· · · · ·
FILE	DATE	LOCATION	AIRCRAFT DATA			RIES S M		FLIGHT PURPOSE	PILOT DATA
	8/31/68 TIME - 1415	MEDFRAJALAS	BELL 206A N6293N DAMAGE-SUBSTANTIAL					COMMERCIAL CTR CARGO-D	COMMERCIAL, FL.INSTR., AGE 30, 3649 TOTAL HOURS, 520 IN TYPE, NOT INSTRU- MENT RATED.
		IDENT ILURE OR MALFUNCTI WITH: TREES	ON		F	IN	I FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTATI	
	MISCELLAN TERRAIN ~ COMPLETE PO EMERGENCY C	IT - TURBINE ASSEMB EOUS ACTS,CONDITIO HIGH OBSTRUCTIONS WER LOSS - COMPLET IRCUMSTANCES - FOR	NS - FATIQUE FRACTUR E ENGINE FAILURE/FLAN CED LANDING OFF AIRPO	HEOUT-	⊨ LA	AND		RAIN DENSE WITH TREES.	
-4905	5/27/68 TIME - 1150	PORT MOLLER,ALAS	BELL 206A N7817S DAMAGE-SUBSTANTIAL					COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, ÉL.INSTR., Age 26, 4310 Total Hours, 145 In Type, not Instru- Ment Rated.
	TYPE OF ACC Engine FA Hard Land	ILURE OR MALFUNCTI	ON		F	IN	FL	F OPERATION IGHT: NORMAL CRUISE NG: POWER-OFF AUTOROTATI	· · · · · · ·
	MISCELLAN PILOT IN COMPLETE PO EMERGENCY O	NT - COMPRESSOR ASS NEOUS ACTS,CONDITIO COMMAND - IMPROPER WER LOSS - COMPLET	EMBLY: BLADE,COMPRES INS - MATERIAL FAILUR OPERATION OF FLIGHT E ENGINE FAILURE/FLA CED LANDING OFF AIRP(AILED.	E CONTR MEOUT-	OL 5	S ENGI	INE		
-0004	6/2/68 TIME - 1325	VIENTIANE,LAOS	HILLER FH1100 N526FH DAMAGE-SUBSTANTIAL					INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., Age 33, 5100 total hours, 400 in type, not instru- Ment Rated.
	TYPE OF ACC HARD LAND	ING	Y.INVESTIGATION UNDER	R THE		LA	NDI	F OPERATION NG: POWER-OFF AUTOROTATI ION OF GOVNT OF LAOS.	
	6/18/68 NR TIME - 1045	R•SAIGON,S•VIETNAM 5	BELL 204B N8511F Damage-substantial					INSTRUCTIONAL DUAL	COMMERCIAL, AGE 34,-3274 Total Hours, 1113 IN Type, Not Instrument Rated.
	TYPE OF ACC Hard Land Roll Over	ING	OF GOVT OF SOUTH VIETI	NAM.	f	LA	NDI	F OPERATION NG: Power-Off Autorotati NG: Power-Off Autorotati	VE LANDING

			BRIEF	S OF A	ACCI	DEN	T S'		
FILE	DATE	LOCATION	AIRCRAFT DATA	II		RIES S M		FL IGHT PURPOSE	PILOT DATA
6-0057	5/24/68 TIME - 15	ALBERTA,CANADA 15	BELL 47G-2 N6141 DAMAGE-DESTROYED	CR- PX-	-	•	-	COMMERCIAL CTR PASSG-D	COMMERCIAL, AGE 37, 5000 Total Hours, 1000 in Type, Not Instrument Rated.
	TYPE OF A MISCELL ROLL OVI	ANEOUS		PHASE OF OPERATION Takedff: 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.

PAGE 98

NTSB AMM 1968

Rotorcraft