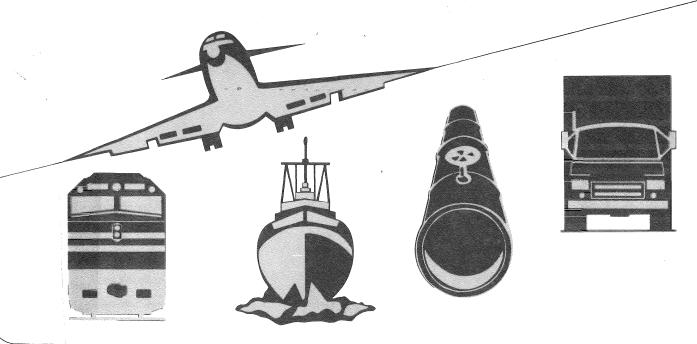
NATIONAL TRANSPORTATION SAFETY BOARD

WASHINGTON, D.C. 20594



AIRCRAFT ACCIDENT REPORTS

BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 5 OF 1989 ACCIDENTS





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15. Supplementary Notes

16.Abstract

This publication contains selected aircraft accident reports in Brief Format occurring in U.S. civil and foreign aviation operations during Calendar Year 1989. Approximately 200 General Aviation and Air Carrier accidents contained in this publication represent a random selection. This publication is issued irregularly, approximately fifteen times each year. The Brief Format represents the facts, conditions, circumstances and probable cause(s) for each accident.

File Numbers: 801 through 828 830 through 915 917

> 919 through 993 995 through 1000

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FOREWORD

The National Transportation Safety Board, in accordance with the provisions of Title VII of the Federal Aviation Act of 1958 (as amended) and Section 304(a) of the Independent Safety Board Act of 1974, has determined the probable cause(s) of the accidents reported herein.

This publication is issued approximately fifteen (15) times per year and contains approximately 200 U.S. and foreign aircraft accident/incident reports arranged in state and date order.

The enclosed computer briefs are the reports of the National Transportation Safety Board and thereby subject to the limitations of 49 USC 1441(e) which states:

"No part of any report or reports of the Board, relating to any accident or the investigation thereof, shall be admitted as evidence or used in any suit or action for damage growing out of any matter mentioned in such report or reports."

In reading these reports, it should be borne in mind that they are produced directly from records on magnetic disk by electronic data processing equipment. Due to spacing limitations a number of abbreviations are utilized in the narrative section. Therefore, caution should be exercised in reading this section on the Briefs of Accidents.

Collisions between aircraft are treated as one accident. An analysis is done on each aircraft involved in a collision. This produces two aircraft accident records per accident. Consequently, when compiling information on accidents involving collisions between aircraft, the number of accident records will exceed the number of accidents.

The Briefs of Accidents contain the essential information which fulfill most requirements of persons using these reports. However, for those having a need for more detailed information, the original factual reports are on file in the Washington Office of the National Transportation Safety Board. Upon request, these reports will be produced commercially for a fee to cover reproduction and postage. The cost will be assessed per printed page and photograph(s) reproduced.

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DEFINITIONS

The following definitions contained in CFR 49, Part 830, Paragraph 830.2 apply when used in this publication.

<u>Aircraft Accidents</u>

An occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, and in which any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto, or in which the aircraft receives substantial damage.

Fatal Injury

Any injury which results in death within 30 days of the accident.

Serious Injury

Any injury which 1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; 2) results in a fracture of any bone (except simple fractures of fingers, toes, or nose); involves lacerations which cause severe hemorrhages, nerve, muscle, or tendon damage; 4) involves injury to any internal organ; or 5) involves second or third degree burns affecting more than 5 percent of the body surface.

<u>Substantial</u> <u>Damage</u>

1) Except as provided in subparagraph (2) of this paragraph, substantial damage means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repair or replacement of the affected component. 2) Engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small punctured holes in the skin or fabric, ground damage to rotor or propeller blades, damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wingtips are not considered "Substantial Damage" for the purpose of this part.

OCCURRENCE

Occurrence relates to the immediate circumstance of the event. Occurrences are numbered in descending order and directly relate to the phase of operation. Some examples of occurrences are as follows:

Gear Collapsed

Collapse of the landing gear due to mechanical failure other than malfunction of the retracting mechanism.

TYPE OF OPERATING CERTIFICATE/TYPE OF OPERATION

The type of operating certificate/type of operation refers to the purpose for which the aircraft is being operated at the time of the accident. This type of operating certificate is broken into two categories. These categories are:

1. **GENERAL AVIATION**

This operating certificate refers to operations involving U.S. and foreign aircraft owned and operated by persons, businesses, corporations, et cetera. This category also includes public use aircraft.

To further define General Aviation operations we have classified the following:

Personal

Flying by individuals in there own or rented aircraft for pleasure, or personal transportation not in furtherance of their occupation or company business.

Business

The use of aircraft by pilots (not receiving direct salary or compensation for piloting) in connection with their occupation or in the furtherance of a private business.

Corporate/Executive Operations

The use of aircraft owned or leased, and operated by a corporation or business firm for the transportation of personnel or cargo in furtherance of the corporation's or firm's business, and which are flown by professional pilots receiving a direct salary or compensation for piloting.

Instructional Flying

Refers to flying accomplished in supervised training under the direction of an accredited instructor.

Other Flying

Includes other kinds of flying not covered under the other broad categories. In some instances the criterion of direct financial return may or may not be present.

2. AIR CARRIER

This operating certificate refers to all operations conducted for direct financial return except instructional flying. It includes Domestic/Flag Air Carriers, Supplemental Air Carriers, All Cargo Air Service Air Carriers, Commercial Operators, Air Travel Club, and Corporate (14 CFR 125) operations. Also included in this category are Commuter Air Carrier and On-Demand Air Taxi operations.

<u>Airframe/Component/System</u> <u>Failure/Malfunction</u>

Occurrences resulting from failure of any part of the airframe/component/system while in flight or in motion on the ground. Excludes failure resulting from contact with another airplane or object, or impact with the ground, or damage from landing gear collapse or retraction.

Powerplant - Loss of Power

Occurrences of engine failure or malfunction for any reason. Includes engine stoppage, power interruption, or power loss, actual or simulated.

PHASE OF OPERATION

The phase of operation relates to the particular segment of the flight or occurrences during which the circumstances of the accident occur.

CAUSES AND RELATED FACTORS

In determining probable cause(s) of an accident, all facts, conditions and circumstances are considered. The object is to ascertain these cause-effect relationships in the accident sequence about which something can be done to prevent recurrence of the type of accident under consideration. Accordingly, 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. The term factor is used to denote those elements of an accident which further explain or supplement the probable cause(s). Additional items that are not categorized as cause or factors are indicated as findings. These items are of interest in the investigation, however, they do not relate directly to the cause of the accident.

BASIC WEATHER CONDITIONS

The types of weather conditions (VMC/IMC) are determined in accordance with the prescribed minima in Part 91 of the Federal Aviation Regulations. These minima pertain to the ceiling and visibility, in conjunction with the type of airspace at the accident site. Type of weather conditions are based on surface weather as determined from officially recognized sources. Weather conditions encountered in flight are not necessarily representative of the classifications VMC/IMC as carried under Weather Data.

FILE ORDER LISTING

ISSUE NUMBER 5

CALENDAR YEAR 1989

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File Number	Aircraft Regist.	Date	Location	Airc Make 	raft Model	Injury Index	Page
801	7557 M	052189	SHERIDAN, WY	CESSNA	175	NONE	386
802	49697	091489	SANTA PAULA, CA	CESSNA	152	NONE	94
803	172SC	101789	VALDOSTA, GA	CESSNA	172N	NONE	150
804	4482E	083189	TRADING BAY, AK	PIPER	PA-18-150	NONE	26
805	150LT	083089	TALKEETNA, AK	PIPER	PA-18	NONE	24
806	9114E	082489	FAIRBANKS, AK	MAULE	M-5-235C	MINOR	22
807	2355C	090989	YAKATAGA, AK	CESSNA	180	NONE	34
808	4760 M	090389	IGUSHIK, AK	PIPER	PA-11	NONE	32
809	3680Z	091189	TRADING BAY, AK	PIPER	PA-18	NONE	40
810	2137Z	090289	ANCHORAGE, AK	CESSNA	180	MINOR	30
811	2459L	090189	SPARREVOHN, AK	CESSNA	172H	NONE	28
812	7525E	051689	ST GEORGE, UT	CHAMPION	7EC	NONE	350
813	78254	081989	EUREKA LODGE, AK	CESSNA	172	NONE	20
814	83622	081389	RED LAKE, AK	PIPER	PA-18	NONE	14
815	6327Z	081689	ANCHORAGE, AK	CESSNA	206	NONE	16
816	5644W	080989	NEBESNA GLACIER, AK	MAULE	M-5	NONE	12
817	8726R	080489	KODIAK, AK	PIPER	J3C-65	NONE	10
818	4005Y	073089	TOZITNA RIVER, AK	CESSNA	185	MINOR	8
819	75LE	063089	FAIRBANKS, AK	CESSNA	185	NONE	4
820	5577G	071289	ANCHORAGE, AK	SCORPION	ΙΙ	NONE	6
821	204CW	060589	KING SALMON, AK	HELIO	H-295	NONE	2
822	8271F	062489	RALEIGH, NC	CESSNA	401	NONE	270
823	65212	071989	JAY, FL	BELL	TH-13T	NONE	136
824	7509Q	062989	CRESTONE, CO	CESSNA	310Q	FATAL	108
825	5295H	070489	MINOT, ND	PIPER	PA-16	SERIOUS	276

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826	5222X	100889	MONTAGUE ISLAND, AK	CHAMPION	7KCAB	NONE	50
827	5715D	100589	DILLINGHAM, AK	PIPER	PA-22	NONE	48
828	4099E	091089	WOOD RIVER, AK	PIPER	PA-18	NONE	36
830	66WR	010589	MACON, MO	WELLS	VARIEZE	FATAL	242
831	57622	071789	HASWELL, CO	PIPER	PA-36	MINOR	112
832	6633Q	071889	ANAHUAC, TX	GRUMMAN-SCHW	G-164B	MINOR	344
833	8916H	061589	MORSE, LA	GRUMMAN-SCHW	G-164A	NONE	202
834	4591	050689	EDCOUCH, TX	GRUMMAN-SCHW	G-164	NONE	342
835	7320C	041989	GANADO, TX	AIR TRACTOR	AT-502	NONE	340
836	73089	052689	ARCOLA, MS	AIR TRACTOR	AT-301	NONE	258
837	69271	060489	DOVER AFB, DE	CESSNA	152	NONE	116
838	617CC	100289	SEDONA, AZ	CESSNA	501	NONE	80
839	4943X	080689	MOSCOW, AR	ROCKWELL INT	S-2R	SERIOUS	72
840	714UQ	052489	FORT PIERCE, FL	CESSNA	152	MINOR	118
841	348U	021789	HAMBURG, AR	BEECH	58	FATAL	60
842	4931X	070589	REYNO, AR	ROCKWELL-INT	S-2R	FATAL	66
843	7501Q	080289	AUSTWELL, TX	SCHWEIZER	G-164B	NONE	346
844	3269L	071189	HATTON, ND	CESSNA	172H	MINOR	278
845	624H	051789	COLORADO SPGS, CO	ENSTROM	280C	MINOR	102
846	8752S	061889	PORT HURON, MI	CESSNA	150	SERIOUS	220
847	5498B	042589	CAHOKIA, IL	CESSNA	152	NONE	160
848	12VR	061789	INDIANAPOLIS, IN	MAULE	MX-7-235	NONE	186
849	39868	042389	WATERTOWN, WI	BELLANCA	17-30A	NONE	368
850	8301F	071589	GRAYSLAKE, IL	PIPER	PA-32-301	NONE	170
851	64087	071189	LOGANSPORT, IN	CESSNA	172P	MINOR	190

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853	2484L	081589	LAKE VILLAGE, IN	CESSNA	172H	NONE	194
854	16LL	081389	WADSWORTH, OH	PIPER	PA-34-200	NONE	302
855	60263	080489	PUTNAM, IL	CESSNA	150J	MINOR	172
856	9520X	061989	OCEAN CITY, MD	CESSNA	210A	NONE	210
858	1652G	060289	MYRTLE BEACH, SC	CHAMPION	7GCBC	NONE	316
859	5082\$	052389	DAYTON, OH	ROCKWELL	114	NONE	294
860	3077X	081389	SANTA FE, NM	ВЕЕСН	A36	MINOR	288
861	8065D	052989	RANGELY, CO	PIPER	PA-22-150	NONE	106
862	17184	052789	FORT COLLINS, CO	CESSNA	177B	MINOR	104
863	735BN	092489	MT PLEASANT, SC	CESSNA	182Q	NONE	324
864	666KH	090289	HANCEVILLE, AL	PIPER	PA-24-260	SERIOUS	58
865	9332L	092289	MEDINA, OH	AMERICAN	AA-1A	NONE	304
866	2210H	080889	INDIANOLA, IA	BALLOON WORK	FIREFLY-7	MINOR	156
867	68591	080689	MINNEAPOLIS, MN	STINSON	L-5	NONE	232
868	4278E	072989	LIBERTY, MO	PIPER	PA-38-112	NONE	250
869	757HY	073189	FT SMITH, AR	CESSNA	152	NONE	70
870	21685	082689	PARK RAPIDS, MN	BELL	206B	NONE	238
871	63884	082789	KANSAS CITY, MO	CONSOLIDATED	BT-13A	NONE	252
872	10103	082589	WABBASEKA, AR	AIR TRACTOR	AT-401	NONE	76
873	8471E	081589	WASECA, MN	BELL	47G-B3	MINOR	234
874	812SS	082089	CARLISLE, MN	DORMOY	TKD BATHTU	MINOR	236
875	9658A	101089	PEORIA, IL	CESSNA	140A	NONE	178
876	6342G	070889	LOUISVILLE, CO	CESSNA	150K	FATAL	110
877	1887D	062489	GLENROCK, WY	BEECH	35	FATAL	388

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879	55357	092489	LEBANON, OH	PIPER	PA-28-180	NONE	306
880	8886	082789	EAU CLAIRE, WI	PIPER	PA-23-160	NONE	376
881	7818R	092889	PRINCETON, IL	BEECH	36	NONE	176
882	736JM	080589	VINCENNES, IN	CESSNA	R172K	NONE	192
883	5131M	080689	GARRETTSVILLE, OH	TAYLORCRAFT	BC12-D	SERIOUS	298
884	1535M	052789	FORT LAUDERDALE, FL	BOEING	E75N1	NONE	124
885	1365E	061289	CHEMULT, OR	CESSNA	172	SERIOUS	312
886	95KS	092889	BLOOMINGTON, MN	HUGHES	269C	NONE	240
887	699T	081889	CONCORD, AR	BEECH	V35B	NONE	74
888	8456R	011889	BAGLEY, AL	PIPER	PA-28-140	FATAL	56
889	9823X	080689	DURANGO, CO	CESSNA	185	NONE	114
890	8824D	061889	MICHIGAN CITY, IN	PIPER	PA-22	SERIOUS	188
891	163MH	051489	BIG RAPIDS, MI	AVIONS MAX H	MH 1521	NONE	216
892	16TP	021289	STEVENS POINT, WI	PIPER	PA-28R-201	NONE	366
893	2529D	060889	ELYRIA, OH	PIPER	PA-38-112	NONE	296
894	61306	011589	OSCEOLA, WI	CESSNA	150J	NONE	364
895	91072	060589	SUFFOLK, VA	BEECH	T-34B	NONE	356
896	6663Z	071189	WH SULPHUR SPGS, MT	PIPER	PA-25	NONE	262
897	4763P	052989	WHEELING, IL	CESSNA	P210N	NONE	168
898	82702	051489	OJIBWA, WI	PIPER	PA-28RT-20	NONE	370
899	149RT	070389	FORT LAUDERDALE, FL	CESSNA	421B	NONE	134
900	3201U	052789	BIG PINE KEY, FL	MOONEY	M 20J	FATAL	122
901	9299Q	030489	ST MARYS ISLAND, GA	BEECH	95-B55	FATAL	140
902	2604N	032489	MAYFLOWER, AR	PIPER	PA-38-112	FATAL	62

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905	80WB	052689	NICEVILLE, FL	BRYAN	ZENITH CH-	FATAL	120
906	6812R	040989	ASPEN, CO	CESSNA	T210F	FATAL	100
907	48313	072089	BLACKRIVERFALLS, WI	HILLER	UH- 12E	MINOR	374
908	70406	081189	HENDERSONVILLE, NC	DAMMANN	N3-2	FATAL	274
909	74849	071789	WASHINGTON, NC	WHITMAN TAIL	W-8	NONE	272
910	2487B	061789	MOUNDSVILLE, WV	BELL	47G-2	NONE	382
911	4594T	070889	HOLLY HILL, SC	PIPER	PA28-140	NONE	322
912	9187A	032389	RAVENSWOOD, WV	CESSNA	170A	NONE	378
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924	52634	031889	ROCKFORD, IL	CESSNA	177RG	NONE	158
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927	48385	032589	ADVANCE, MO	GRUMMAN	G-164A	NONE	244
928	96299	102089	HIWASSE, AR	CESSNA	172Q	NONE	78
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933	4022R	073089	WILLIAMSBURG, VA	PIPER	PA-32-300	NONE	360
934	4JK	080689	CIRCLEVILLE, OH	KEENER	ROTORWAY/E	NONE	300
935	714SR	061789	KNOXVILLE, TN	CESSNA	150M	MINOR	330
936	371FZ	052189	COLUMBIA, IL	ZENGEL	RV-4	MINOR	164
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940	9021M	011889	RONKONKOMA, NY	ROBINSON	R-22HP	SERIOUS	292
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941	7392G	030889	WATKINS, CO	CESSNA	172K	FATAL	98
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943	2CL	010289	CARMEL, IN	PIPER	PA-28-200	FATAL	182
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945	59KM	013189	NOCONA, TX	CESSNA	180B	NONE	334
946	588FL	021289	JASPER, TN	PIPER	PA-28-140	FATAL	326
947	7025L	021389	TYLER, TX	MBB	BK-117 A-1	FATAL	336
948	8369K	031289	NEW ORLEANS, LA	PIPER	PA-28-161	FATAL	198
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951	6299K	020489	HAMMONTON, NJ	CESSNA	150	SERIOUS	282
952	67561	020189	KENNEBUNK, ME	BEECH	A-36	SERIOUS	214
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954	5112Y	021289	HUNTERSVILLE, NC	PIPER	PA-23-250	NONE	264
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959	4521S	010989	PAWHUSKA, OK	BEECH	V35B	NONE	308
960	27555	010989	S. TIMBALIER 75, GM	BELL	206L-1	MINOR	154
961	78TW	062089	GASTON, SC	BEECH	B-60	FATAL	320
962	6367G	060389	N. MYRTLE BEACH, SC	CESSNA	150K	FATAL	318
963	7596E	012189	LUXEMBURG, MN	CHAMPION	7EC	FATAL	228
964	736RT	032889	HONDO, TX	CESSNA	172XP	FATAL	338
965	22704	010389	S.TIMBALIER 151, GM	BELL	206B-III	MINOR	152
966	4126Y	021689	JACKSON, GA	BELLANCA	7GCBC	FATAL	138
967	33066	042189	ASHLAND, NE	PIPER	J3C	FATAL	280
968	9646H	052889	OAKLAND, AR	CESSNA	172 M	SERIOUS	64
969	5357Q	051089	COTTAGE GROVE, MN	CESSNA	152	SERIOUS	230
970	3281T	030989	COVINGTON, KY	BEECH	BE-18	FATAL	196
971	95PB	050689	MT. PLEASANT, TN	EMBRAER	EMB-110-P1	FATAL	328
972	9502C	040689	RUPERT, WV	BEECH	C35	FATAL	380
973	8974M	011089	RIPON, CA	BEECH	35-B33	FATAL	82
974	26198	042089	STOCKTON, CA	ROBINSON	R22 BETA	FATAL	88
975	3581G	050789	HAMILTON, MO	CALLAIR	A-9	FATAL	246
976	32GR	052289	MC HENRY, IL	RUSCHKE	STARDUSTER	FATAL	166
977	5509K	080389	ATLANTA, GA	CONVAIR	640 (340D)	NONE	148
978	3100B	061089	SARASOTA, FL	CESSNA	170B	FATAL	126
979	26313	012289	LAKE VIEW, CA	GRUMMAN	AA5A	FATAL	84
980	5368H	032989	DANVILLE, GA	PIPER	PA-16	NONE	144

File Order Listing - Issue No. 5, 1989

File	Aircraft			Aircr	aft	Injury	
Number	Regist.	Date	Location	Make	Model	Index	Page
981	5325N	052989	JACKSONVILLE, NC	BOEING	E-75 (PT-1	FATAL	268
982	87735	062989	AMERICUS, GA	AIR TRACTOR	AT-301	FATAL	146
983	2UM	061889	LANTANA, FL	UHLEY-MASON	R.A.F. VAR	FATAL	132
984	816FW	081689	ORANGE, VA	BEECH	B55	NONE	362
985	27FH	030389	ROANOKE, VA	BEECH	V35TC	FATAL	354
986	76KM	060189	BIG TIMBER, MT	BELL	206L-3	FATAL	260
987	6301 M	050589	PORT SAN LUIS, CA	CESSNA	152	FATAL	90
988	52AK	092789	PALMER, AK	EVANSON	LONG EZ/52	FATAL	44
989	62RT	091489	STONY RIVER, AK	PIPER	PA-18	NONE	42
990	339T	091089	CIRCLE CITY, AK	PIPER	PA-18	NONE	38
991	64399	092889	TRADING BAY, AK	CESSNA	185	NONE	46
992	5606C	110689	FAIRBANKS, AK	CESSNA	140	NONE	52
993	3654C	111889	PORT HEIDEN, AK	CESSNA	180	NONE	54
995	88297	081989	GALBRAITH LAKE, AK	BELLANCA	8GCBC	NONE	18
996	90619	050389	NEW IBERIA, LA	SMITH AEROST	601	FATAL	200
997	XBDYP	011889	LAREDO, TX	DOUGLAS	DC-3	SERIOUS	332
998	57946	061589	DAYTONA BEACH, FL	BOEING	A-75	FATAL	130
999	9834D	061089	ST. AUGUSTINE, FL	PIPER	PA-22-160	FATAL	128
1000	2202C	052689	ARDMORE, OK	BELL	47D-1	NONE	310

AIRCRAFT ACCIDENT REPORTS BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 5 OF 1989 ACCIDENTS

File No 821 6/05/89 KING	SALMON,AK	A/C Reg. No. I	N204CW	Time (Lc1)	- 1610 ADT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	L AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew O Pass O	Injur Serious O O		None 1 0
Aircraft Information Make/Model - HELIO H-295 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 3400 No. of Seats - 6	Eng Make/Mo Number Eng Engine Typo Rated Powe	e - RECIPROCAT	St	T Installed// all Warning S		
	Itinerary Last Departe SAME AS AG Destination LOCAL ATC/Airspace TERED Type of Flig CAST Type Apch/Li	cc/INC ght Plan - NONE arance - VFR	ON A Airport KING Runw Runw Runw	SALMON ay Ident - ay Lth/Wid - ay Surface -		150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND,SE SEA Instrument Rating(s) - AIRPLANE	Age - 40 Biennial Flight Ro Current Months Since Aircraft Type	eview - YES Tot - 15 Mak - C-150 Ins	Certificate - VAL Flight Time al - 7300 e/Model- UNK/NR trument- UNK/NR ti-Eng - UNK/NR	(Hours) Last 24 Last 30 Last 90	AIVERS/LIMI 4 Hrs - UNk 0 Days- UNk 0 Days- UNk raft - UNk	(/NR (/NR (/NR
THE PLT TOOK OFF ON RWY 11 (8500' LONG), THEN HE TAXIED OFF THE RWY AT MIDFIELD FOR 2 TO 3 BECOMING AIRBORNE AGAIN (WITH A TAILWIND), HE CAME TO REST WITH A FAILED TAILWHEEL A-FRAME. ACCORDANCE WITH STC SA1389CE. THE PLT RPRTD T PROBLEM, WHICH PROMPTED HIM TO ABORT THE TAKE FOUND WITH EITHER THE ENG OR THE PROPELLER.	MIN, THEN REQUESTEI LANDED (HARD) ON THE ACFT WAS EQUII HAT AFTER THE 2ND	D & RCVD CLEARANC THE REMAINING RWY PPED WITH AN OVER TAKEOFF, HE NOTED	E TO TAKE OFF AGAI . AT THAT TIME, TH SIZE (ZAEGAL 8:00 WHAT HE BELIEVED	N. IMMEDIATEI E ACFT GROUNI X 6) TAILWHEI WAS A PROPELI	_Y AFTER D LOOPED & EL IN _ER	

File No. - 821 6/05/89 KING SALMON, AK A/C Reg. No. N2O4CW Time (Lcl) - 1610 ADT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) UNDETERMINED 2. ABORTED TAKEOFF 3. WEATHER CONDITION - TAILWIND 4. WRONG RUNWAY - SELECTED - PILOT IN COMMAND 5. LANDING GEAR, TAILWHEEL ASSEMBLY - FAILURE, TOTAL

Phase of Operation TAKEOFF - ABORTED

Occurrence #2 LOSS OF CONTROL - ON GROUND

Finding(s)

- 6. DIRECTIONAL CONTROL NOT POSSIBLE -
- 7. GROUND LOOP/SWERVE UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN UNDETERMINED PROBLEM RELATED TO THE ENGINE, PROPELLER, AND/OR FAILED TAILWHEEL ASSEMBLY.

File No 819 6/30/89		A/C Reg. No	Time (Lcl) - 2242 ADT				
-Basic Information Type Operating Certificate-NONE (GENERAL AVIATION)		Aircraft Damage SUBSTANTIAL		Injuries Fatal Serious Minor Non			
Type of Operation -PERSON, Flight Conducted Under -14 CFR Accident Occurred During -LANDING	91	Fire NONE	Crew Pass	0	0	0	1 0
-Aircraft Information Make/Model - CESSNA 185 Landing Gear - TAILWHEEL-ALL FIXI Max Gross Wt - 3200 No. of Seats - 4	ED Number Eng	e - RECIP-FL	JEL INJECTED		Installed/Adtall Warning		
Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/006 KTS Visibility - 40.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 5500 F Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar- SAME AS A Destination LOCAL ATC/Airspace Type of Floration Type of Clar Type Apch/I	CC/INC		ON AIRI Airport Da FAIRBAI Runway Runway Runway	ata NKS Ident - Lth/Wid - Surface -		50
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 40 Biennial Flight F Current Months Since	Review - YES T - 7 M	otal - Make/Model-	nt Time (Ho 164 163	ours) Last 24 Last 30	Hrs - Davs-	2 2
Instrument Rating(s) - NONE	Aircraft Type		instrument- Multi-Eng -	3 O	Last 90 Rotorcra	Days- aft -	43 O

A/C Reg. No. N75LE Time (Lc1) - 2242 ADT File No. - 819 6/30/89 FAIRBANKS, AK

Occurrence #1 DRAGGED WING, ROTOR, POD, OR FLOAT Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - CROSSWIND

2. WEATHER CONDITION - GUSTS

3. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADEQUATE COMPENSATION FOR WIND CONDITIONS. THE CROSSWIND AND GUSTS WERE CONTRIBUTING FACTORS.

-Basic Information Type Operating Certificate	e-NONE (GENEI	RAL AVIATION)	Aircraft	Damage			Ini	uries	
		ŕ	SUBSTAN			Fatal			None
, ,	-UNAUTHORIZI	ED	Fire		Crew	0	0	0	1
Flight Conducted Under Accident Occurred During			NONE		Pass	0	0	0	0
-Aircraft Information									
Make/Model - SCORPION I Landing Gear - SKID	. 1		Model – JOH gines – 1	NSON RW-133				/Activated	
Max Gross Wt - 1480				IPROCATING-CA	DRUDE		tali warn	ing System	- NU
No. of Seats - 2		Rated Powe			,	IOK			
-Environment/Operations Infor	mation								
Weather Data		Itinerary				Airport		•	
Wx Briefing - NO RECOR	D OF BRIEFI					ON AIR	PORT		
Method - N/A Completeness - N/A		SAME AS A Destination	ICC/INC			Airport Da	2+2		
Basic Weather - VMC		LOCAL				•	ata L FIELD		
Wind Dir/Speed- UNK/NR		EOCAL					Ident	- UNK/NR	
Visibility - 25.0	SM	ATC/Airspace				,		- UNK/NR	
Lowest Sky/Clouds -		ATTERED Type of F1	ight Plan -	NONE				- ASPHALT	
Lowest Ceiling -		OKEN Type of Cle	earance -	NONE		Runway	Status	- DRY	
Obstructions to Vision-		Type Apch/l	.ndg -	NONE					
Precipitation -									
Condition of Light -	NIGHT(DARK)								
-Personnel Information Pilot-In-Command		Age - UNK/NR		Medical Certi	ificat	·a - NO MEI	OT CAL		
Certificate(s)/Rating(s)		Biennial Flight F				nt Time (H			
NONE		Current	- N/A	Total	_	•		24 Hrs -	0
		Months Since	- N/A	Make/Mode		0		30 Days-	0
		Aircraft Type	e - N/A	Instrumer	nt-	0	Last	90 Days-	0
Instrument Rating(s)	- NONE								
Narrative ORDING TO LOCAL POLICE OFFICI	ALS THE HE	ICODTED WAS REING T	AKEN ON AN	HINAHTHODIZER) FITC	HT WHEN T	T COLLIDE	D WITH	
EARBY AIRPORT BUILDING. THE P									
ON THAT THEY BELIEVED HAD AT									
SUMED TO HAVE HAD NO PREVIOUS									

File No 8	20 7/12/89	ANCHORAGE, AK	A/C Reg. No. N5577G	Time (Lcl) - 0410 ADT
Occurrence #1 Phase of Operation	LOSS OF CONTROL HOVER	- IN FLIGHT		
Finding(s) 1. STOLEN AIRCRAFT 2. AIRCRAFT CONTRO	=	- UNQUALIFIED PERSON		
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS HOVER	ION WITH OBJECT		
Finding(s) 3. OBJECT - AIRPOR	T FACILITY			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: UNQUALIFIED PERSON AT THE FLIGHT CONTROLS, WHO WAS UNABLE TO MAINTAIN CONTROL OF THE HELICOPTER. THE NEARBY BUILDING (AIRPORT FACILITY) WAS A CONTRIBUTING FACTOR.

Basic Information Type Operating Certificate-NONE (GENERAL		t Damage		Inju		
Tune of Openation DEDCOMAL	SUBSTA		Fatal			Non
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Cr Pa		0	1 0	0
Accident Occurred During -TAKEOFF	NONE	ra	33 0	O	O	O
Aircraft Information						
Make/Model - CESSNA 185	Eng Make/Model - CC			Installed/		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 3200	Number Engines - 1 Engine Type - RE			tall Warni	ng System	- YES
No. of Seats - 4	Rated Power -		J			
Environment/Operations Information						
Weather Data	Itinerary			Proximity	_	
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point SAME AS ACC/INC		OFF AI	RPORT/STRI	Р	
Method - N/A Completeness - N/A	Destination		Airport D	12+2		
Basic Weather - VMC	CHUGIAK, AK		All por t	ata		
Wind Dir/Speed- VARIABLE	5.15 527.111,7111		Runway	Ident	- 12	
Visibility - 100.0 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - 3500 FT SCATT	TERED Type of Flight Plan	- NONE		Surface		JRF
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status	- DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- NONE				
Condition of Light - DAYLIGHT						
Personnel Information					,	
	Age - 50	Medical Certifi			AIVERS/LIM	MIT
					4 Une -	3
	· · · · ·					12
ou this, he this					•	27
		Multi-Eng -			· , -	
Instrument Rating(s) - AIRPLANE						
COMMERCIAL SE LAND, ME LAND	Biennial Flight Review Current - YES Months Since - 12 Aircraft Type - C-185	Total - Make/Model- Instrument- Multi-Eng -	1600 59 14	Last 2 Last 3 Last 9	O Days-	

File No. - 818 7/30/89 TOZITNA RIVER, AK

Occurrence #1

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- OVER CONFIDENCE IN AIRCRAFT'S ABILITY PILOT IN COMMAND
- 3. WEATHER CONDITION UNFAVORABLE WIND
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PREFLIGHT PLANNING/PREPARATION BY THE PILOT. HIGH OBSTRUCTIONS, UNFAVORABLE WIND CONDITIONS, AND TREES WERE CONTRIBUTING FACTORS.

asic Information	L AVIATION)	-f+ Domosio		T on d on		
Type Operating Certificate-NONE (GENERA		aft Damage TANTIAL	Fatal	Injur Serious		None
Type of Operation -PERSONAL	Fire		0		0	1
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	NONE		Ö	Ō	Ö	Ó
Accident Occurred During -LANDING						
rcraft Information						
Make/Model - PIPER J3C-65		CONTINENTAL A-65		•		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1220		1		tall Warnin	g System -	- NO
No. of Seats - 2	Rated Power -	RECIPROCATING-CARBURE 65 HP	TUR			
nvironment/Operations Information						
eather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		nt	ON AIR	•		
Method - N/A	KODIAK, AK					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC			FIELD		
Wind Dir/Speed- CALM	ATO /A :				36	(1.15
Visibility - 60.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flight Pla	a - NONE		Lth/Wid - Surface -		NK/NR
Lowest Ceiling - NONE	Type of Clearance				DRY	
Obstructions to Vision- NONE		- TRAFFIC PATTERN	Karmay	Statas	Ditt	
Precipitation - NONE	, , ,					
Condition of Light - DAYLIGHT						
ersonnel Information Pilot-In-Command	Age - 53	Madinal Cantificant	- VALTO	MEDICAL NO	LIATVEDC /I	TMT T
Certificate(s)/Rating(s)	Biennial Flight Review	Medical Certificat	t Time (H		WAIVER5/L	TIMITI
COMMERCIAL	Current - YES	Total -			Hrs - UNK	(/NR
SE LAND	Months Since - 1	Make/Model-	35	Last 30	Days-	6
	Aircraft Type - J-3	Make/Model- Instrument- UN Multi-Eng -	IK/NR	Last 90	Days-	6
		Multi-Eng -	0	Rotorcr	aft - UNK	C/NR
Instrument Rating(s) - NONE						
arrative						
LOT DEPARTED KODIAK STATE AIRPORT ON A	LOCAL FLIGHT TO MILLED ET	FID (AN HNMAINTAINED	CLOSED	GDAVEL STDT	p)	
LANDING IN CALM WIND CONDITIONS, HE LOS						

File No 8	17 8/04/89	KODIAK,AK	A/C Reg. No. N8726R	Time (Lc1) - 1930 ADT
Occurrence #1 Phase of Operation	LOSS OF CONTROL LANDING - ROLL	- ON GROUND		
		NED - PILOT IN COMMAN - PILOT IN COMMAND	D	
Occurrence #2 Phase of Operation	DRAGGED WING, ROLL	TOR, POD, OR FLOAT		
Probable Cause				
The National Transpo	rtation Safety Boa	rd determines that th	e Probable Cause(s) of this acciden	t was:

THE PILOT FAILED TO MAINTAIN DIRECTIONAL CONTROL AND INADVERTENTLY ALLOWED THE AIRCRAFT TO GROUND LOOP.

-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircrat	t Damage ANTIAL	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass	-	0	0	1 1
-Aircraft Information Make/Model - MAULE M-5	Eng Make/Model - L	COMING ID-540	CIT	Installed/Ad		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			installed/Ad Stall Warning		
Max Gross Wt - 2500	Engine Type - RE		_		, -,	
No. of Seats - 4	Rated Power -	235 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	•	t	OFF AI	RPORT/STRIP		
Method - N/A	NORTHWAY, AK		Ainmont D	\a_+a		
Completeness - N/A Basic Weather - VMC	Destination SAME AS ACC/INC		Airport D	Jata		
Wind Dir/Speed- 210/010 KTS	SAME AS ACC/ INC		Runway	/ Ident -	N/A	
Visibility - 60.0 SM	ATC/Airspace			Lth/Wid -	•	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface -	•	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 39	Medical Certifica			WAIVERS	/LIMIT
Certificate(s)/Rating(s) ATP	Biennial Flight Review Current - YES		ht Time (F	Last 24	Unc -	6
SE LAND, ME LAND, SE SEA	Months Since - 5					50
HELICOPTER	Months Since - 5 Aircraft Type - HH-3F	Make/Model- Instrument-	235	Last 90	Days-	125
		Multi-Eng -	12	Rotorcra		
Instrument Rating(s) - AIRPLANE,HE	LICOPTER					
PLT WAS ON A FLT TO THE NEBESNA GLACIER A RE HE PLANNED TO HIKE. HIS 1ST APCH TO LAN						
E, THE ACFT TOUCHED DOWN & THE WHEELS CAUG						
GO-AROUND, STRUGGLED INTO THE AIR WITH FU						
ACFT ENCOUNTERED A DOWNDRAFT & WAS "PUSHE	" INTO A DDV DIVED RED HE	STATED THAT HE MA	DE A CONTR	OLLED LANDI	NG	

File No. - 816

8/09/89

NEBESNA GLACIER.AK

A/C Reg. No. N5644W

Time (Lcl) - 1730 ADT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - ABORTED

Finding(s)

- 1. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 2. TOUCHDOWN INADVERTENT PILOT IN COMMAND
- 3. GO-AROUND DELAYED PILOT IN COMMAND
- 4. TERRAIN CONDITION HIGH VEGETATION
- 5. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 6. WEATHER CONDITION DOWNDRAFT
- 7. TERRAIN CONDITION ROUGH/UNEVEN

Occurrence #2 GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

8. LANDING GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT ALLOWED THE AIRCRAFT TO INADVERTENTLY TOUCH DOWN, HE DELAYED MAKING A GO-AROUND, AND HE DID NOT MAINTAIN SUFFICIENT SPEED TO CONTINUE THE GO-AROUND. CONTRIBUTING FACTORS WERE: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN, HIGH VEGETATION IN THE SELECTED LANDING AREA. A DOWNDRAFT, AND ROUGH TERRAIN IN THE DRY RIVER BED.

Basic Information Type Operating Certificate-NONE (GENER	PAL AVIATION)	Aircraft Damac	ne.		Injur	ias	
Type operating certificate None (GENER	CAL AVIATION)	SUBSTANTIAL		Fatal			None
Type of Operation -PERSONAL		Fire	Crew		0		1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-18		odel - LYCOMING					
Landing Gear - TAILWHEEL-ALL FIXED		ines - 1			tall Warning	g System	- NO
Max Gross Wt - 1750 No. of Seats - 2		e - RECIPROCA r - 150 HP		TUR			
NO. 01 Seats - 2	Rated Fowe		. 				
Environment/Operations Information Weather Data	Itinerary			Airport 6	Dowinity		
weather data Wx Briefing - NO RECORD OF BRIEFIN		ura Point			RPORT/STRIP		
Method - N/A	YOUR CREE			OII AII	NI OKI/ SIKIF		
Completeness - N/A	Destination	,		Airport Da	ata		
Basic Weather - VMC	LOCAL			•			
Wind Dir/Speed- LIGHT AND VARIABLE					Ident -		
Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Fli	ght Plan - NONE			Surface -		
Lowest Ceiling - 3000 FT OVI Obstructions to Vision- NONE	Type of Cle	ndg - TRAFF		Runway	Status -	N/A	
Precipitation - RAIN	Type Apeny	nag ikari	TOTATIERN				
Condition of Light - DAYLIGHT							
 Personnel Information							
Pilot-In-Command	Age - 24	Medica	al Certificat			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Age - 24 Biennial Flight R	eview	Fligh	nt Time (Ho			
COMMERCIAL	Current	- YES To	otal -	611	Last 24	Hrs -	1
SE LAND, SE SEA	Months Since	- 3 Ma	ake/Model-	273	Last 30	Days-	12
	ATTCTATE Type	- 3 Ma - C-152 Ir Mu	ilti-Eng -	40	Potorcr	Days- af+ -	27
		MC	arer Eng	O	KO COT CT &	a	J
Instrument Rating(s) - AIRPLANE							
E HUNTING SHEEP, THE PILOT ELECTED TO LA	AND ON A MOUNTAIN RI	DGE. THE TERRAIN	N WAS ROUGH W	ITH TUNDRA	A & ROCKS. [DURING	
LANDING, THE RIGHT MAIN LANDING GEAR WE							

File No. - 814 8/13/89 RED LAKE, AK A/C Reg. No. N83622 Time (Lc1) - 0800 ADT

Occurrence #1 MAIN GEAR COLLAPSED

Phase of Operation LANDING - ROLL

Finding(s)

- 1. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 2. TERRAIN CONDITION ROUGH/UNEVEN
- 3. LANDING GEAR, MAIN GEAR OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF UNSUITABLE TERRAIN. THE ROUGH/UNEVEN TERRAIN WAS A CONTRIBUTING FACTOR.

File No 815 8/16/89 ANCH	HORAGE, AK	A/C Reg. N	lo. N6327Z	Т	ime (Lc1) -	- 1215 AD	Т
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL	RAL AVIATION)	Aircraft Dan SUBSTANTIAL Fire			Injur Serious O		None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	0	0	0	3
Aircraft Information							
Make/Model - CESSNA 206 Landing Gear - FLOAT Max Gross Wt - 3500 No. of Seats - 6	Number Eng	e - RECIP-F	UEL INJECTED		Installed/A Stall Warnir		
Environment/Operations Information							
Weather Data Wx Briefing - PATWAS Method - TELEPHONE	Itinerary Last Depart SAME AS A			Airport ON AIR	Proximity STRIP		
Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 150/008 KTS	Destination LOCAL	ice/ INC			LL LAKE	- UNK/NR	
Visibility - 40.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3000 FT OVE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace Type of Fli RCAST Type of Cle Type Apch/L		IE .	Runway	Lth/Wid - Surface - Status -		СНОРРҮ
Personnel Information					MEDION		
Pilot-In-Command Certificate(s)/Rating(s)	Age - 64 Biennial Flight R		cal Certifica Fliq	te - VALIL ht Time (F		AINEK2/LI	MII
PRIVATE SE LAND	Current Months Since		Total - Make/Model-	303	Last 24 Last 30	Days-	0
	Aircraft Type	e - C-185	Instrument-	4	Last 90	Days-	26
Instrument Rating(s) - NONE							
Narrative HE PILOT BEGAN TAKING OFF FROM THE WEST END FOR "HAD JUST CLEARED THE WATER AT ABOUT 50 EET, LIFTED THE RIGHT WING SOME, AND THEN SOME THE PLT WAS ABLE TO TAXI BACK TO THE DOC AND THE ACFT APPEARED TO LIFT-OFF PREMATURE	O KNOTS PLUS (WHEN) SLAMMED THE PLANE ON CK. NO PREIMPACT MAL	A LARGE GUST O ITO THE LAKE." FUNCTION OR FA	OF WIND PICKED SUBSEQUENTLY VILURE OF THE	THE PLANE , THE STRU ACFT WAS R	E UP ABOUT JTS WERE DAM RPRTD. A WIT	10-15 MAGED, TNESS	

File No 8	15 8/16/89	ANCHORAGE, AK	A/C Reg. No. N632	!7Z	Time (Lcl) -	1215 ADT
Occurrence #1 Phase of Operation	LOSS OF CONTROL - TAKEOFF - INITIAL					
Finding(s) 1. WEATHER CONDITION 2. WEATHER CONDITION 3. LIFT-OFF - PREM 4. STALL/MUSH - IN	ON - GUSTS ATURE - PILOT IN CO					
Occurrence #2 Phase of Operation	IN FLIGHT COLLISI TAKEOFF	ON WITH TERRAIN/WATER				
Finding(s)	ON - WATER					and the second second

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT ALLOWED THE AIRCRAFT TO LIFT-OFF PREMATURELY, THEN INADVERTENTLY ENTER A STALL/MUSH. THE GUSTY/CROSSWIND
CONDITIONS WERE CONTRIBUTING FACTORS.

File No 995 8/19/89 GALBR	AITH LAKE,AK	A/C Reg. No.	N88297	Τ.	ime (Lcl) -	1200 ADT	
-Basic Information Type Operating Certificate-NONE (GENERA	_ AVIATION)	Aircraft Damage	 e		Injur	ies	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	SUBSTANTIAL		Fatal			None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	1
Accident Occurred During -TAKEOFF							
-Aircraft Information							
Make/Model - BELLANCA 8GCBC		lodel - LYCOMING (D-360-C2E				
Landing Gear - TAILWHEEL-ALL FIXED	Number Eng				tall Warnin	g System	- YES
Max Gross Wt - 1800		e - RECIPROCAT	I ING-CARBURE	TOR			
No. of Seats - 2	Rated Powe	er - 180 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport			
Wx Briefing - NO RECORD OF BRIEFING				OFF AIR	RPORT/STRIP		
Method - N/A	SAME AS A Destination	CC/INC		Aimmont D			
Completeness - N/A Basic Weather - VMC	FAIRBANKS			Airport Da	ala		
Wind Dir/Speed- 090/005 KTS	FAIRDANKS	, AK		Punway	Ident -	N/A	
Visibility - 60.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ght Plan - NONE			Surface -		
Lowest Ceiling - NONE		earance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/L	.ndg - NONE		•			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 42		l Certificat			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight F			t Time (Ho			
PRIVATE	Current		tal -	400	Last 24	Hrs -	1
SE LAND	Months Since	- 6 Mak e - 8GCBC Ins	ke/Model-	350	Last 30	Days-	35
	Aircraft Type	e - 8GCBC Ins	strument-	O	Last 90	Days-	70
Instrument Rating(s) - NONE							
-Narrative : AIRCRAFT'S TAIL WHEEL TIRE WAS PUNCTURED	DV A DOCK AND BUT	, DUDING THE ATTE	MDED TAKEDEE	EDOM A CI	DAVEL PAR	TUE	
OT ATTEMPTED TO ABORT THE TAKEOFF AND CONT			MELD TAKEUFF	I KUM A GI	NAVEL DAK.	IIIE	
OF ATTEMPTED TO ABORT THE TAKEUP AND CONT	YOU OF THE ATRONAL	I WAS LUSI.					

File No 9	95 8/19/89 	GALBRAITH LAKE,AK	A/C Reg. No. N88297	 Time (Lc1) - 1200 ADT
Occurrence #1 Phase of Operation				
Finding(s) 1. TERRAIN CONDITI 2. LANDING GEAR,TI 3. DIRECTIONAL C	RE – FAILURE,TOTAL	AINED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation				
Occurrence #3 Phase of Operation		· ·		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOTS FAILURE TO MAINTAIN DIRECTION CONTROL AFTER ABORTING TAKEOFF FOLLOWING FAILURE OF THE TAIL LANDING GEAR
TIRE.

Basic Information Type Operating Certificate-NONE (GENERA	Ι ΔVΙΔΤΙΩΝ) Δircraf	t Damage		Injur	ries	
Type operating our tri reate None (deliena		ANTIAL	Fatal			None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	2
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 172	Eng Make/Model - Ly			Installed/		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300	Number Engines - 1 Engine Type - RE			itall Warnir	ng System	- YES
No. of Seats - 4	Rated Power -		ETUK			
Environment/Operations Information Weather Data	Itinerary		Ainnont	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		<u> </u>	ON AIR			
Method - N/A	TYONE CREEK, AK		014 741	311121		
Completeness - N/A	Destination		Airport [ata		
Basic Weather - VMC	SAME AS ACC/INC		EUREKA			
Wind Dir/Speed- CALM	. –				- 09	
Visibility - 60.0 SM	ATC/Airspace	NONE		Lth/Wid -		50
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan Type of Clearance			Surface - Status -		
Obstructions to Vision- NONE	Type of Crearance Type Apch/Lndg		Runway	Status	ROUGH	
Precipitation - NONE	Type Apony Endg	TRAIT 20 TATTER.			Roodii	
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 76 Biennial Flight Review	Medical Certifica			AIVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (F			_
PRIVATE	Current - YES	Total -	1017	Last 24	Hrs -	4 12
SE LAND	Minchaft Type - C-172	Tostrument- II	NK/ND	Last 30	Days-	47
	Months Since - 1 Aircraft Type - C-172	Multi-Ena -	0	Rotorca	raft -	0
Instrument Rating(s) - NONE						
Narrative						
PLT RPRTD THERE WAS A HUMP ON THE LANDING	STRIP. HE STATED THAT DRG	A LANDING, "IT CAU	GHT THE MA	IN LANDING	GEAR	
SING THE PLANE TO BOUNCE AND COME DOWN TOO	HARD ON (THE) FRONT LANDIN	NG GEAR CAUSING IT	TO FAIL."	THE COWLIN	NG.	

File No. - 813 8/19/89 EUREKA LODGE,AK A/C Reg. No. N78254 Time (Lcl) - 1330 ADT

Occurrence #1 NOSE GEAR COLLAPSED

Phase of Operation LANDING

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 3. LANDING GEAR, NOSE GEAR OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. A CONTRIBUTING FACTOR WAS THE HUMP (UNEVEN SURFACE) ON THE RUNWAY.

Type of Operation -PERSONAL Fire Crew 0 0 1 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 1 Accident Occurred During -TAXI Aircraft Information Make/Model - MAULE M-5-235C Eng Make/Model - LYCOMING 0-540-J1 ELT Installed/Activated - Y Landing Gear - FLOAT Number Engines - 1 Stall Warning System - N Max Gross Wt - 2530 Engine Type - RECIPROCATING-CARBURETOR No. of Seats - 4 Rated Power - 235 HP Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point OFF AIRPORT/STRIP Method - N/A SAME AS ACC/INC Completeness - N/A Destination Airport Data Basic Weather - WMC LOCAL Wind Dir/Speed-360/006 KTS Visibility - 60.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 13000 FT SCATTERED Type of Flight Plan - NONE Runway Status - N/A Destructions to Vision NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) FRIVATE Current - YES Total - 320 Last 24 Hrs - SE LAND, SE SEA Months Since - 23 Make/Model - 235 Last 30 Days - 2	
Make/Model - MAULE M-5-235C Landing Gear - FLOAT Number Engines - 1 Number Engines - RECIPROCATING-CARBURETOR Nated Page - 2 Number Engines - 1 Number Engines - 1 Number Engines - 1 Number Engines - 1 Number - RECIPROCATING-CARBURETOR Nated Page - 1 Number Engines - 1 Number Engines - 1 Number - RECIPROCATING-CARBURETOR Nated Page - 1 Number - None - 235 HP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP O	None O O
Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 360/006 KTS Visibility - 60.0 SM Lowest Sky/Clouds - 13000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - 25000 FT OVERCAST Type of Clearance - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 PRIVATE SE LAND, SE SEA Months Since - 23 Make/Model - 235 Ma	
Pilot-In-Command Age - 32 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 320 Last 24 Hrs - SE LAND, SE SEA Months Since - 23 Make/Model - 235 Last 30 Days - 2 Aircraft Type - M-5-235 Instrument - 2 Last 90 Days - 6	
Instrument Rating(s) - NONE	0 25 65
Manual Advan	
Narrative E PLT RPRTD HE WAS STEP TAXIING ON THE CHENA RIVER WHILE PROCEEDING TO A STRAIGHT AREA ON THE RIVER TO TAKE OFF. FORE REACHING THE STRAIGHT AREA, THERE WAS A RIGHT BEND IN THE RIVER. ABOUT HALFWAY THRU THE TURN, THE PLT REALIZED AT EVEN WITH FULL RIGHT RUDDER, THE ACFT WOULD NOT TURN SHARP ENOUGH TO MAINTAIN SUFFICIENT SEPARATION FROM THE LEFT NK WHICH HAD OVERHANGING TREES. SUBSEQUENTLY, IT STRUCK "LAND AND TREES" ON THE LEFT SIDE & WAS DAMAGED.	

File No 8	06 8/24/89 FAIRBANKS,AK	A/C Reg. No. N9114E	Time (Lc1) - 2125 ADT
Occurrence #1 Phase of Operation	ON GROUND COLLISION WITH TERRAIN/WATER TAXI - TO TAKEOFF		
Finding(s) 1. TAXISPEED - EXC 2. TERRAIN CONDITI	ESSIVE - PILOT IN COMMAND ON - DIRT BANK		
Occurrence #2 Phase of Operation	ON GROUND COLLISION WITH OBJECT TAXI - TO TAKEOFF		
Finding(s) 3. OBJECT - TREE(S)		
Probable Cause			
The National Transpo	rtation Safety Board determines that the I	Probable Cause(s) of this accide	ent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT WAS TAXIING TOO FAST TO NEGOTIATE A BEND IN THE RIVER. TREES & THE RIVER BANK WERE CONTRIBUTING FACTORS.

Basic Information Type Operating Certificate-ON-DEMAND AI	D TAXT	Aircraft Damage			Injuri	ies	
Name of Carrier -TALKEETNA AI	3	SUBSTANTIAL	1	Fatal	Serious		None
Type of Operation -NON SCHED, DO	MESTIC, CARGO	Fire	Crew				1
Name of Carrier -TALKEETNA AI Type of Operation -NON SCHED, DOI Flight Conducted Under -14 CFR 135	·	NONE	Pass	0	0 0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-18		Model - LYCOMING 0-					
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750	Number Eng	gines - 1 De - RECIPROCATI	NC-CARRIDETO	S.	tall Warning	g System	- NO
No. of Seats - 2	Rated Powe	er - 150 HP	.NG-CARBURE I UI	K			
Environment/Operations Information Weather Data	Itinerary		٨	innont	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		ture Point	A	ON AIR	•		
Method - N/A	TALKEETNA			OIT AIR.	31111		
Completeness - N/A	Destination		Αi	rport Da	ata		
Basic Weather - VMC	SAME AS A	ACC/INC		TURNOV	ER HILL		
Wind Dir/Speed- 045/010 KTS						04	
Visibility - 40.0 SM	ATC/Airspace	1-1 1 B1 VEB			Lth/Wid -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE		ight Plan - VFR earance - NONE			Surface - Status -		Kr
Obstructions to Vision- NONE		ndg - FULL S1	OP.	Kuliway	status -	ROOGII	
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u>.</u>				
Condition of Light - DAYLIGHT							
Personnel Information						/	
Pilot-In-Command Certificate(s)/Rating(s)	Age - 27	Medical Review	Certificate	- VALID	MEDICAL-NO	WAIVERS/	LIMII
COMMERCIAL, CFI	Current	review - YES Tota	riight al - 45	1 1111e (H	Jurs) last 24	Hrs -	5
SE LAND, SE SEA	Months Since	- 6 Make	e/Model- 8	00	Last 30	Davs-	100
HELICOPTER	Aircraft Type	e - C-185 Inst	rument- UNK/	NR	Last 90	Days-	350
		- 6 Make e - C-185 Inst	i-Eng -	0	Rotorcra	aft -	100
Instrument Rating(s) - AIRPLANE							
Name							
Narrative HE PLT WAS LNDG AT AN AIRSTRIP ON A MOUNT	AIN TOP THE ACET	NOSED OVER HE RIA	MED THE NOSE	-NVER N	N A COMBINAT	LTON	
OUGH LANDING AREA, GUSTY TAILWIND, RAIN O							

File No. - 805 8/30/89 TALKEETNA, AK A/C Reg. No. N150LT Time (Lc1) - 1745 ADT

Occurrence #1 Phase of Operation LANDING - ROLL

NOSE OVER

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. TERRAIN CONDITION ROUGH/UNEVEN
- 3. WEATHER CONDITION RAIN
- 4. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 5. WEATHER CONDITION TAILWIND
- 6. WEATHER CONDITION GUSTS
- 7. BRAKES(NORMAL) IMPROPER USE OF PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PLT. CONTRIBUTING FACTORS WERE ROUGH TERRAIN, RAIN, HIGH DENSITY ALTITUDE, TAILWIND, GUSTS, AND THE PILOT'S IMPROPER USE OF BRAKES.

-Basic Information Type Operating Certificate	-NONE (GENERAL AV	TATION) Airc	raft Damage			Injur	ies	
-		SUB	STANTIAL		Fatal	Serious	Minor	
, ,	-PERSONAL	Fire		Crew	0	0	0	1
Flight Conducted Under Accident Occurred During		NUN	E	Pass	0	0	O	1
-Aircraft Information		/	_		·			
Make/Model - PIPER PA-18		Eng Make/Model -)-A2B		nstalled/A		
Landing Gear - TAILWHEEL-A Max Gross Wt - 1750	ALL FIXED	Number Engines - Engine Type -	1 RECIPROCATING-	CADDIIDE		all Warnin	g Syste	m - YES
No. of Seats - 2			150 HP	CARBORE	IUK			
-Environment/Operations Inform	mation							
Weather Data		Itinerary			Airport P			
Wx Briefing - NO RECORD	OF BRIEFING	Last Departure Po	int		OFF AIR	PORT/STRIP		
Method - N/A Completeness - N/A		ANCHORAGE,AK Destination			Airport Da	+ 3		
Basic Weather - VMC		SAME AS ACC/INC			All port ba	la		
Wind Dir/Speed- CALM		JAME AS ASS, INC			Runway :	Ident -	N/A	
Visibility - 10.0		ATC/Airspace			Runway I	_th/Wid -	N/A	
Lowest Sky/Clouds - l		Type of Flight Pl			•	Surface -	N/A	
Lowest Ceiling -					Runway :	Status -	N/A	
Obstructions to Vision-		Type Apch/Lndg		TTERN				
Precipitation - M Condition of Light - M			FULL STOP					
-Personnel Information Pilot-In-Command	٨٥٥	52	Medical Cer	+ i f i o o t	VALTD I	MEDICAL -NO	WATVED	C/I TMTT
Certificate(s)/Rating(s)		ennial Flight Review			nt Time (Ho		WAIVER	3/ LIMI
PRIVATE	5.0			-	2500	iast 24	Hrs -	UNK/NR
SE LAND, SE SEA		Current - YES Months Since - 14	Make/Mc	del-	1300	Last 30	Days-	UNK/NR
		Aircraft Type - PA-			10	Last 90	Days-	UNK/NR
			Multi-E	ing -	0	Rotorcr	aft -	O
Instrument Rating(s)	- NONE							
-Narrative PLT & A FRIEND WERE ON A FLT								
IR USUAL LANDING AREA, OBSTRUC R LANDING. THIS WAS A GRASS CO	VERED MUD FLAT, W	HICH THE PLT OF N448	2E ELECTED TO U	JSE. HOW	IENDED AN AI	LIERNATE L THE LANDIN	G G	
L-OUT, THE ACFT HIT A LOG AFT								

File No. - 804 8/31/89 TRADING BAY,AK

Phase of Operation LANDING - ROLL

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER

Finding(s)

1. INFORMATION - IMPROPER - OTHER PERSON

- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 3. TERRAIN CONDITION HIGH VEGETATION
- 4. TERRAIN CONDITION HIDDEN OBSTRUCTION(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SELECTION OF UNSUITABLE TERRAIN (LANDING AREA) BY THE PILOT. CONTRIBUTING FACTORS WERE: IMPROPER INFORMATION PROVIDED BY OTHER PERSONNEL AND A HIDDEN OBSTRUCTION (LOG) IN TALL VEGETATION (GRASS).

File No 811 9/01/89 SPARRI	EVOHN, AK A	/C Reg. No. N245	9L	Т.	me (Lcl)	- 1430 ADT	
Basic Information Type Operating Certificate-ON-DEMAND AIR	R TAXI Air	craft Damage			Inju	ries	
Name of Carrier -JAYHAWK AIR	SU	BSTANTIAL	F	atal	Serious	Minor	None
Type of Operation -NON SCHED, DOI			Crew	0	0	0	1
Flight Conducted Under -14 CFR 135 Accident Occurred During -TAKEOFF	NO	NE	Pass	0	0	0	0
-Aircraft Information							
Make/Model - CESSNA 172H		- LYCOMING 0-320	-D2G		installed/.		
Landing Gear - TRICYCLE-FIXED	Number Engines				all Warni	ng System	- YES
Max Gross Wt - 2300	J ,.	- RECIPROCATING-	CARBURETOR				
No. of Seats - 4	Rated Power	- 160 HP					
Environment/Operations Information							
Weather Data	Itinerary				roximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure P			OFF AIR	PORT/STRI	>	
Method - N/A	SAME AS ACC/IN	С					
Completeness - N/A	Destination		Air	port Da	ıta		
Basic Weather - VMC	ANCHORAGE, AK						
Wind Dir/Speed- 090/015 KTS	. = - /					- N/A	
Visibility - 50.0 SM	ATC/Airspace				Lth/Wid	•	
Lowest Sky/Clouds - CLEAR	Type of Flight P				Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance			Runway	Status	- N/A	
Precipitation - NONE	Type Apch/Lndg	- NONE					
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 42	Medical Cer	tificate -	VALID	MEDICAL-N	D WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		Flight T				
COMMERCIAL, CFI	Current - YE	S Total	- 190	0	Last 2	4 Hrs -	5
SE LAND	Current - YE Months Since - 12	Make/Mo			Last 3		97
	Aircraft Type - C-	172H Instrum	ent- UNK/N	R	Last 9	Days-	340
		Multi-E	ng -	0	Rotorc	raft -	0
Instrument Rating(s) - AIRPLANE							
-Narrative							
RING TAKEOFF FROM A GRAVEL BAR, THE AIRPLAN	STRUCK A PLASTIC BUCK	ET THAT WAS BLOW	N INTO ITS	PATH E	Y A CROSS	WIND.	
E BUCKET STRUCK THE LEFT HORIZONTAL STABILI							
IGHT WITH NO DIFFICULTY, BUT AFTER LANDING,	AN EXAM OF THE STABILI	ZER REVEALED SUB	STANTIAL D	AMAGE.			

File No. - 811 9/01/89 SPARREVOHN,AK A/C Reg. No. N2459L Time (Lc1) - 1430 ADT

Occurrence #1 ON GROUND COLLISION WITH OBJECT
Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. WEATHER CONDITION - CROSSWIND

2. OBJECT - OTHER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE BUCKET WHICH WAS BLOWN INTO THE FLIGHT PATH BY A CROSSWIND.

	CHORAGE,AK A/C	Reg. No. N2137Z	T	ime (Lcl) - 1	057 AD1	
-Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION) Aircr	raft Damage		Injurie	:S	
.,,,		STANTIAL	Fatal		Minor	None
Type of Operation -TEST FLT	Fire	Crev	0	0	1	0
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						.
-Aircraft Information						
Make/Model - CESSNA 180	Eng Make/Model -	CONTINENTAL 0-470-R		Installed/Act		
Landing Gear - TAILWHEEL-ALL FIXED		1		Stall Warning	System	- YES
Max Gross Wt - 2650	3 7.	RECIPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	230 HP				
-Environment/Operations Information						
Weather Data	Itinerary		•	Proximity		
Wx Briefing - NO RECORD OF BRIEF	•	int	ON AIR	RSTRIP		
Method - N/A	ANCHORAGE, AK					
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	LOCAL		O'MALL			
Wind Dir/Speed- 090/007 KTS				/ Ident - 1		
Visibility - 50.0 SM	ATC/Airspace			/ Lth/Wid -		60
Lowest Sky/Clouds - UNK/NR	Type of Flight Pla			/ Surface - D		
	ROKEN Type of Clearance		Runway	/ Status - D	RY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information					/	
Pilot-In-Command	Age - 51	Medical Certifica			ERS/LIN	1T
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F			
COMMERCIAL, CFI	Current - YES					1
SE LAND, SE SEA, ME SEA	Months Since - 19	Make/Model- 30 Instrument-	970	Last 30 D	ays-	2
	Aircraft Type - C-18	30 Instrument-	55	Last 90 D	ays-	12
		Multi-Eng -	10	Rotorcraf	τ -	0
Instrument Rating(s) - AIRPLANE						
PLT WAS ON A TEST FLT AFTER AN ANNUAL TURNED BACK TO LAND AT THE DEPARTURE AR VY & OIL PRESSURE BEGAN DROPPING. THE P	PT (MERRILL FIELD). BEFORE F LT ELECTED TO LAND AT A PVT	REACHING MERRILL FIEL AIRSTRIP. DRG THE AF	D, THE OIL	FILM BECAME		
ACFT FOR VISIBILITY. HE SAID HE MADE A OCK & SOME HIGH VEGETATION, THEN NOSED LER.						

9/02/89 File No. - 810 ANCHORAGE, AK A/C Reg. No. N2137Z Time (Lcl) - 1057 ADT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation CRUISE Finding(s) 1. LUBRICATING SYSTEM.OIL COOLER - LEAK 2. FLUID, OIL - LEAK 3. FLIGHT TO ALTERNATE DESTINATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. WINDOW, FLIGHT COMPARTMENT WINDOW/WINDSHIELD - DIRTY(FOGGY) 5. PROPER ALIGNMENT - NOT ATTAINED - PILOT IN COMMAND VISUAL/AURAL PERCEPTION -7. OBJECT - OTHER 8. TERRAIN CONDITION - HIGH VEGETATION Occurrence #4 NOSE DOWN LANDING Phase of Operation ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: OIL LEAK IN THE OIL COOLER. CONTRIBUTING FACTORS WERE: OIL FILM ON THE WINDSHIELD, WHICH OBSCURED THE PILOT'S VISION (VISUAL PERCEPTION) AND HAMPERED HIS ABILITY TO ATTAIN PROPER RUNWAY ALIGNMENT, AN OBJECT (ROCK), AND HIGH VEGETATION BESIDE THE AIRSTRIP.

Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Damage			Injurie		
Type of Operation -PERSONAL		SUBSTANTIAL Fire	Crew	Fatal O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 9		NONE	Pass	0	0	0	i
Accident Occurred During -LANDING	,						
-Aircraft Information							
Make/Model - PIPER PA-11		del - CONTINENTAL (nstalled/Act		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1350		nes - 1 - RECIPROCATINO	C.CADDUDETO		all Warning	System	- NU
No. of Seats - 2		- 90 HP	-CARBURE IC	, K			
-Environment/Operations Information							
Weather Data	Itinerary		A		roximity		
Wx Briefing - NO RECORD OF BRIE				OFF AIR	PORT/STRIP		
Method - N/A Completeness - N/A	DILLINGHAM Destination	, AK	Λ -	irport Da	+->		
Basic Weather - VMC	SAME AS AC	C/INC	A	inport be	ita		
Wind Dir/Speed- 180/010 KTS	3/m2 //3 //3	3, 1113		Runway	Ident - N	I/A	
Visibility - 20.0 SM	ATC/Airspace			Runway	Lth/Wid - N	I/A	
Lowest Sky/Clouds - 2500 FT					Surface - N		
Lowest Ceiling - 10000 FT				Runway	Status - N	I/A	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lh	dg - FULL STOP	,				
Condition of Light - DAYLIGHT							
-Personnel Information						. – – – – –	
Pilot-In-Command	Age - 40	Medical Ce	ertificate	- VALID	MEDICAL-NO W	/AIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re	view	Fliaht	Time (Ho	ours)	·	
PRIVATE	Current	- YES Total	- 14	136	Last 24 F	łrs -	1
SE LAND, SE SEA	Months Since	- 13 Make/M	Model- 10)82	Last 30 D	ays-	31
	Aircraft Type	- 13 Make/M - C-180 Instru Multi:	ument- -Eng -	2	Last 90 D	ays-	64
		MUIT1	-Eng -	O	ROTOCCTAT	τ -	0
Instrument Rating(s) - NONE							
PILOT STATED THAT WHILE LANDING ON A	BEACH. THE LEFT WHEEL H	IIT A SOFT SPOT & TH	HE LEFT MA	N GEAR (COLLAPSED.		
LEFT WING & PROPELLER THEN HIT THE GR	OUND WHICH DESULTED IN	I FUDTHED DAMAGE					

File No 8	08 9/03/89 IGUSHIK,AK	A/C Reg. No. N4760M	Time (Lc1) - 1645 ADT
Occurrence #1 Phase of Operation	ON GROUND COLLISION WITH TERRAIN/WAT LANDING - ROLL	ER	
Finding(s) 1. TERRAIN CONDITI 2. UNSUITABLE TE	ON - SOFT RRAIN - SELECTED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	MAIN GEAR COLLAPSED LANDING - ROLL		
Finding(s) 3. LANDING GEAR,MA			
Probable Cause			
The National Transpo	rtation Safety Board determines that t	he Probable Cause(s) of this accide	ent was:

THE PILOT SELECTED UNSUITABLE TERRAIN FOR A LANDING. SOFT TERRAIN WAS A CONTRIBUTING FACTOR.

Type Operating Certificate-NONE (GENERA		t Damage		Injur		
Type of Operation -BUSINESS	SUBSTA Fire	NIIAL Crew	Fatal O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	0
Aircraft Information						
Make/Model - CESSNA 180 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - CO Number Engines - 1			Installed/A		
Max Gross Wt - 2550		CIPROCATING-CARBURE		tall Warnir	ig System	- YES
No. of Seats - 6	, , , , , , , , , , , , , , , , , , ,	230 HP	TOK			
Environment/Operations Information						
Weather Data	Itinerary		Airport F			
Wx Briefing - NO RECORD OF BRIEFING			ON AIRS	STRIP		
Method - N/A Completeness - N/A	SAME AS ACC/INC Destination		Airport Da	3+3		
Basic Weather - VMC	LOCAL		YAKATA			
Wind Dir/Speed- 270/010 KTS	233112				07	
Visibility - 50.0 SM	ATC/Airspace		Runway	Lth/Wid -	4950/	150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan				GRAVEL	
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 35	Medical Certificat	e - VALID	MEDICAL-NO	. WATVERS/	/I TMTT
Certificate(s)/Rating(s)	Biennial Flight Review		nt Time (Ho			
COMMERCIAL, ATP	Current - YES	Total -			Hrs - UN	IK/NR
SE LAND, ME LAND	Months Since - 1 Aircraft Type - C-185	Make/Model-	100	Last 30	Days- UN	IK/NR
	Aircraft Type - C-185		IK/NR	Last 90	Days- UN	IK/NR
		Multi-Eng - UN	IK/NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - AIRPLANE						
Narrative						

File No. - 807 9/09/89 YAKATAGA, AK A/C Reg. No. N2355C Time (Lc1) - 1030 ADT

Phase of Operation LANDING - ROLL

Occurrence #1 LOSS OF CONTROL - ON GROUND

Finding(s)

1. WEATHER CONDITION - TAILWIND

- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 3. GROUND LOOP/SWERVE INADVERTENT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN DIRECTIONAL CONTROL AND INADVERTENTLY ALLOWED THE AIRCRAFT TO GROUND LOOP. THE TAILWIND WAS A CONTRIBUTING FACTOR.

nor None 0 1 0 1
0 1 0 1 ated - YES/Y
ated - YES/Y
stem - NO
00
VERS/LIMIT
0
- 0 s- 15
s- 40
- 0
5 /:

9/10/89 WOOD RIVER, AK A/C Reg. No. N4099E File No. - 828 Time (Lcl) - 1830 ADT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. WEATHER CONDITION - UNFAVORABLE WIND 3. WEATHER CONDITION - HIGH WIND 4. WEATHER CONDITION - GUSTS 5. WEATHER CONDITION - HIGH DENSITY ALTITUDE 6. OBJECT - TREE(S) 7. PROPER CLIMB RATE - NOT POSSIBLE -Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

----Probable Cause----

Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INNADEQUATE PREFLIGHT PLANNING/PREPARATION BY THE PILOT. THE WIND CONDITIONS, HIGH DENSITY ALTITUDE AND TREES WERE CONTRIBUTING FACTORS.

Basic Information Type Operating Certificate-NONE (C	ENERAL AVIATION)	Aircraft Damage	<u> </u>		Injur	ies	
Type operating out throate none (SUBSTANTIAL		Fatal			None
Type of Operation -PERSONA		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR		NONE	Pass	0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-18		odel - LYCOMING ()-320-A2B		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXE Max Gross Wt - 1500		ines - 1 e - RECIPROCAT	TNC-CARRIDE		tall Warnin	g System -	- NO
No. of Seats - 2		e - RECIPROCA r - 150 HP	ING-CARDURE	IUK			
	Rated rowe						
Environment/Operations Information				A :	D.,		
Weather Data Wx Briefing - NO RECORD OF BRI	Itinerary EFING Last Depart	uno Point			Proximity RPORT/STRIP		
Method - N/A	CIRCLE CI			OIT AI	KFUKI/ SIKIF		
Completeness - N/A	Destination	11,60		Airport D	ata		
Basic Weather - VMC	SAME AS A	CC/INC		GRAVEL			
Wind Dir/Speed- 090/010 KTS				Runway	Ident -	N/A	
Visibility - 60.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 3000 Fl	SCATTERED Type of Fli	ght Plan - NONE			Surface -		
Lowest Ceiling - NONE	Type of Cle	arance - NONE		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/L	ndg - FULL S	STOP				
Precipitation - NONE Condition of Light - DAYLIGH	-						
Personnel Information Pilot-In-Command	Age - 46	Medica	Certificat	e - VALID	MEDICAL-WA	IVERS/LIM	ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Age - 46 Biennial Flight R	eview		t Time (H			
PRIVATE	Current	- YES To	:a1 -	114	Last 24	Hrs -	4
SE LAND	Months Since	- 12 Mak - C-152 Ins	ke/Model-	40	Last 30	Days-	40
	Aircraft Type	- C-152 Ins	strument-	0	Last 90	Days-	43
Instrument Rating(s) - NONE							
Narrative		THE .TEST			E. B.E .::		
PRIVATE PILOT STATED THAT HE LOST CO IBUTED THE ACCIDENT TO HIS LOW TOTAL							
TRULED THE ACCIDENT IN HIS INW TOTAL	FILIGHT EXPERIENCE, WHI	CH HE REPURIED IO	J BE 114 HOU	K2. WITH	40 UF THUSE		

File No. - 990 9/10/89 CIRCLE CITY,AK A/C Reg. No. N339T Time (Lcl) - 1800 ADT

Occurrence #1 LOSS OF CONTROL - ON GROUND
Phase of Operation LANDING - ROLL

Finding(s)

1. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
2. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

Occurrence #2 DRAGGED WING, ROTOR, POD, OR FLOAT
Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT FAILED TO MAINTAIN DIRECTIONAL DURING THE LANDING ROLL.

File No 809 9/11/89 TRADI	NG BAY,AK A/C Re	g. No. N3680Z	T	ime (Lc1) -	1600 ADT	
Basic Information Type Operating Certificate-NONE (GENERA				Injur	ies	
-	SUBSTAN			Serious		None
Type of Operation -PERSONAL	Fire	Crew	_	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	1
-Aircraft Information						
Make/Model - PIPER PA-18	Eng Make/Model - LYC	OMING 0-360	ELT	Installed/A	ctivated	- YES/YES
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1		S	itall Warnir	ng System	- NO
Max Gross Wt - 1760	Engine Type - REC		ETOR			
No. of Seats - 2	Rated Power -	180 HP				
Environment/Operations Information				 		
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AI	RPORT/STRIF	•	
Method - N/A	ANCHORAGE, AK					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- CALM	,				N/A	
Visibility - 15.0 SM	ATC/Airspace	_		Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan -			Surface -		
	CAST Type of Clearance -		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Precipitation - NONE Condition of Light - DAYLIGHT						
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 25	Medical Certifica	+0 - VALIC	MEDICAL -NC	. WATVEDS/	I TMTT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F		WAIVERS/	LIMII
PRIVATE	Current - YES	Total -		Last 24	Hrs -	2
SE LAND, SE SEA	Months Since - 13	Make/Model-				17
	Aircraft Type - PA-18	Instrument-			Days-	24
	.,,, -, -, -, -, -, -, -, -, -, -, -, -,	Multi-Eng -	Ö		, ,,,	
Instrument Rating(s) - NONE						
	N HEAVY RAIN IN THE AREA BEF G, HIS BRAKES WERE NOT EFFEC , IT HIT A STUMP, BUT CONTIN	ORE HE ARRIVED & TIVE, SO HE ELECT UED FLYING. HE HA	ONE TO TWO ED TO GO A D DIFFICUL	INCHES OF ROUND. HE F TY CONTROLL	STANDING PRTD	

File No. - 809 9/11/89 TRADING BAY,AK A/C Reg. No. N3680Z Time (Lc1) - 1600 ADT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation LANDING - ABORTED

Finding(s)

1. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

2. TERRAIN CONDITION - WET

3. GO-AROUND - ATTEMPTED
4. OBJECT - OTHER

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING

Finding(s)

5. GO-AROUND - DISCONTINUED -

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT SELECTED UNSUITABLE TERRAIN FOR HIS INTENDED LANDING AREA. WET TERRAIN/HYDROPLANING CONDITIONS IN THE INITIAL TOUCHDOWN AREA AND AN OBJECT (STUMP) CONTRIBUTED TO THE OCCURRENCE.

----Probable Cause----

File No 989 9/14/89 STONY	RIVER, AK	A/C Reg. No.	N62RT	Τi	me (Lc1) -	1330 ADT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	AL AVIATION)	Aircraft Damag SUBSTANTIAL Fire NONE		Fatal 0 0	Injur Serious O O		None 1 0
Accident Occurred During -LANDING			,	Ü	•	ŭ	ŭ
Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1800 No. of Seats - 2	Number Eng	dodel - LYCOMING of the second	TING-CARBURETO	St	nstalled/A all Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/010 KTS Visibility - 4.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 4000 FT BROW Obstructions to Vision- UNK/NR Precipitation - RAIN Condition of Light - DAYLIGHT	PALMER,AK Destination SAME AS A ATC/Airspace Type of Fli KEN Type of Cle	CC/INC ght Plan - NONE	Αi	OFF AIR rport Da GRAVEL Runway Runway Runway	BAR	N/A 900/ GRAVEL	30
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,SE SEA	Age - 52 Biennial Flight R Current Months Since Aircraft Type	Review	tal - 36	Time (Ho 22	urs) Last 24	Hrs -	2
Instrument Rating(s) - AIRPLANE							
THIST CHIMENT RATING(S) AIRPLAND Narrative HE PILOT STATED THAT THE AIRPLANE HIT A LARGE EAR TO COLLAPSE, AND THE LEFT WING TO HIT THE ROM SEEING THE ROCK IN TIME TO AVOID HITTING UTTING NUMEROUS ROCKS THERE, TO DISCOURAGE (HE GROUND. THE PILO G IT. HE ALSO STATE	OT REPORTED THAT O THAT SOMEONE H	RAÍN ON THE WI	NDSHIELD	PREVENTED) HIM	

File No 9	9/14/89	STONY RIVER, AK	A/C Reg. No. N62RT	Time (Lc1) - 1330 ADT
Occurrence #1 Phase of Operation		ION WITH OBJECT		
Finding(s) 1. OBJECT - OTHER 2. WEATHER CONDITI 3. VISUAL LOOKOUT	ON - RAIN - INADEQUATE - PIL	OT IN COMMAND		
Occurrence #2 Phase of Operation		SED		
Occurrence #3 Phase of Operation	•	TOR, POD, OR FLOAT		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO ENSURE THAT HIS LANDING AREA WAS PROPERLY CLEAR PRIOR TO LANDING.

-Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION) Airc	raft Damage		Ini	uries	
Type operating continuous none (azitanz		BSTANTIAL	Fata	al Serious		None
Type of Operation -PERSONAL	Fire			1 0	0	-0
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	NON	IE	Pass (0	0	0
-Aircraft Information Make/Model - EVANSON LONG EZ/52	Fng Make/Model -	· LYCOMING 0-235-0	C1 I	ELT Installed	I/Activated	- VES/VE
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -				ing System	
Max Gross Wt - 1425		RECIPROCATING-C	ARBURETOR	0 (4)	.,g cyclom	.,,
No. of Seats - 2	9 7,	115 HP				
-Environment/Operations Information						
Weather Data	Itinerary			ort Proximity	•	
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Po	oint	ON	AIRPORT		
Method - N/A	ANCHORAGE, AK			- + D- + -		
Completeness - N/A Basic Weather - VMC	Destination LOCAL			rt Data _MER MUNI		
Wind Dir/Speed- 130/008 KTS	LUCAL			nway Ident	- 15	
Visibility - 30.0 SM	ATC/Airspace			nway Lth/Wid		100
Lowest Sky/Clouds - N/A	Type of Flight Pl	an - NONE			- CONCRETI	
Lowest Ceiling - 6000 FT BROKE	N Type of Clearance	e - NONE	Rui	nway Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PAT	TERN			
Precipitation - RAIN		TOUCH AND G	0			
Condition of Light - NIGHT(DARK)						
-Personnel Information	A CO	Madian Cont	:6:-a+- \	NITE MEDICAL	WATVEDC /LT	.A.T. T
	Age - 69 Biennial Flight Review	Medical Cert	Flight Time		WAIVERS/LI	AIT I
COMMERCIAL	Current - YES		- 2061	last	24 Hrs -	0
SE LAND, SE SEA	Months Since - 3		el- 18	Last	30 Days-	18
	Aircraft Type - C-			Last		18
		Multi-Eng	g - 0	Rotor	craft -	0
Instrument Rating(s) - NONE						
-Narrative						
HOMEBUILT LONG EZ CRASHED INTO A WOODED AR	EA NEXT TO THE APPROACH	HEND OF THE RUNW	AY. THERE W	ERE NO WITNES	SSES TO	
ACCIDENT ACCORDING TO LOCAL POLICE. THE AI					IO	
OT'S LOG BOOK REVEALED A TOTAL OF 18 HOURS	IN 1412 ATKCKALI EXAM	VERE EVIDENT.	IGHT CONTRO	-2 KEVEALED N	10	

A/C Reg. No. N52AK File No. - 988 9/27/89 PALMER, AK Time (Lcl) - 2100 ADT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. TERRAIN CONDITION - HIGH VEGETATION

- 2. ALTITUDE MISJUDGED PILOT IN COMMAND
- 3. LIGHT CONDITION DUSK
- 4. VISUAL LOOKOUT NOT IDENTIFIED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S FAILURE TO MAINTAIN THE PROPER ALTITUDE.

File No 991 9/28/89 TRADI	ING BAY,AK A/C Re	g. No. N64399	Т	ime (Lcl) -	1830 ADT	
	AL AVIATION) Aircraft	Damage		Injur	ies	
	SUBSTAN		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	2
Accident Occurred During -APPROACH						
Aircraft Information						
Make/Model - CESSNA 185	Eng Make/Model - CON	TINENTAL IO-520-D		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1		5	Stall Warnir	g System	- YES
Max Gross Wt - 3350		P-FUEL INJECTED				
No. of Seats - 4	Rated Power -					
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AI	RPORT/STRIP		
Method - N/A	ANCHORAGE, AK					
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	SAME AS ACC/INC			AIRSTRIP		
Wind Dir/Speed- CALM			Runway	/ Ident -	09	
Visibility - 150.0 SM	ATC/Airspace			/Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -			/ Surface -	DIRT	
Lowest Ceiling - NONE	Type of Clearance -			/ Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	VALLEY/TERRAIN F	OLLOWING			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	•	Medical Certifica				
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (F			
PRIVATE	Current - YES	Total -			Hrs - UN	
SÉ LAND	Months Since - 1	Make/Model-	156		Days- UN	
	Aircraft Type - C-185E	Instrument-	0		Days- UN	
		Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE						
						
E 333 HOUR PRIVATE PILOT WAS ATTEMPTING TO	LAND HIS CESSNA 185 AT A REM	DTE DIRT AIRSTRIP	. HE SAID	THAT HE WAS		
A SHORT, LOW FINAL APPROACH WHEN THE AIRPL						
NTROL. HE SAID HE DID NOT SEE THE TREE UNTI	L AFTER THE ACCIDENT, AND TH	DUGHT INITIALLY H	E HAD JUST	GOTTEN TOO		
DW AND INADVERTENTLY STALLED THE AIRPLANE.	HE SAID THAT HE DIDN'T SEE TH	HE TREE BECAUSE N	ONE OF THE	BRANCHES		
THE THE PARTY OF T						
O ANY LEAVES.						

File No. - 991 9/28/89 TRADING BAY,AK A/C Reg. No. N64399 Time (Lc1) - 1830 ADT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. PLANNED APPROACH - INADEQUATE - PILOT IN COMMAND

2. ALTITUDE - IMPROPER - PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT IN COMMANDS FAILURE TO PERFORM AN ADEQUATE VISUAL APPROACH RESULTING IN COLLISION WITH A TREE.

Basic Information Type Operating Certificate-NONE (GENERA	AVIATION) Aircra	ft Damage		Injur	ios	
Type operating certificate None (GENERA		ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - PIPER PA-22		YCOMING 0-320				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1500		1 ECIPROCATING-CARBUR		all Warning	g System	- NU
No. of Seats - 2	Rated Power -		ETUK			
No. of Seats 2						
Environment/Operations Information	Thinnn		A demonstrate F			
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poin	+	Airport F ON AIRF			
Method - N/A	SAME AS ACC/INC		ON AIR	OKI		
Completeness - N/A	Destination		Airport Da	ata		
Basic Weather - VMC	LOCAL		DILLING	SHAM		
Wind Dir/Speed- 070/008 KTS					01	
Visibility - 50.0 SM	ATC/Airspace			Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg		Runway	Status -	DRY	
Precipitation - NONE	Type Apcil/ Liliag	- TRAFFIC PATTERN				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 53 Biennial Flight Review	Medical Certifica			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (Ho	ours)		
ATP, CFI	Current - YES	Total -	6700	Last 24	Hrs -	1
SE LAND, ME LAND, SE SEA	Current - YES Months Since - 1 Aircraft Type - PA-31	Make/Model-	100 NIZ /NID	Last 30	Days-	35
	Aircraft Type - PA-31	Multi-Eng -	1200	Rotorcra	Days- aft - UN	IK/NR
		martin ing	.200			,
Instrument Rating(s) - AIRPLANE						
Narrative		·				=
PILOT REPORTED THAT DURING A LANDING, HE	HAD JUST STARTED TO APPLY	BRAKES TO TURN OFF	THE RUNWAY	WHEN THE R	I GHT	
I GEAR COLLAPSED. HE HAD JUST PURCHASED TH	E AIRCRAFT & SUSPECTED THA	T IT MAY HAVE BEEN	INVOLVED IN	N A PREVIOUS	S HARD	

File No. - 827 10/05/89 DILLINGHAM,AK A/C Reg. No. N5715D Time (Lc1) - 1344 ADT

Occurrence #1 MAIN GEAR COLLAPSED Phase of Operation LANDING - ROLL

Finding(s)

1. LANDING GEAR,MAIN GEAR - FAILURE,TOTAL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE RIGHT MAIN GEAR.

5.1

-Basic Information Type Operating Certificate-NONE (GENERA		t Damage		Injur		
Type of Operation -PERSONAL	SUBSTA Fire	NTIAL Crew	Fatal O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	. NONE	Pass	0	0	0	1
 -Aircraft Information Make/Model - CHAMPION 7KCAB	Eng Make/Model - Ly	COMING ID-320-F2A	FLT	Installed/A	ctivated	- YES/YE
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1		9	Stall Warnin		
Max Gross Wt - 1650 No. of Seats - 2	Engine Type - RE Rated Power -	150 HP				
	Itinerary		Ainpont	Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	•	:		IRPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination SAME AS ACC/INC		Airport [Data		
Wind Dir/Speed- 010/010 KTS	,				N/A	
Visibility - 100.0 SM Lowest Sky/Clouds - 5500 FT SCAT	ATC/Airspace TERED Type of Flight Plan	- NONE		/ Lth/Wid - / Surface -		
	Type of Clearance Type Apch/Lndg	- NONE			N/A	
-Personnel Information	Ann 24	Medical Certifica	+0 VALT	NACDICAL WA	TVEDC / L TM	
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 31 Biennial Flight Review		te - VALII ht Time (F		IVEKS/ LIM	11
PRIVATE	Current - YES					2
SE LAND	Months Since - 2 Aircraft Type - 7KCAB	Make/Model- Instrument- ป	624 NK/NR	Last 30 Last 90	Days-	6 48
	mondi e Typo mond	Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE						
-Narrative PLT RPRTD THAT HE WAS LANDING ON AN UNIMP	POVED/ROUGH SANDRAR WHEN TH	HE ACONT OCCUPPED	HE STATE) THAT AFTED		
CHDOWN, THE ACFT HAD TRAVELED ABOUT 50 FT,						

File No 8	26 10/08/89 	MONTAGUE ISLAND, AK	A/C Reg. No. N52	222X T	ime (Lcl) - 1400 ADT
Occurrence #1 Phase of Operation	ON GROUND COLLIS	ION WITH TERRAIN/WATER			
Finding(s) 1. UNSUITABLE TERR. 2. TERRAIN CONDITI 3. WEATHER CONDITI 4. TERRAIN CONDITI	ON - ROUGH/UNEVEN ON - GUSTS	ON	·		
Occurrence #2 Phase of Operation		- ON GROUND			
Finding(s) 5. DIRECTIONAL CON 6. GROUND LOOP/SWE		-			
Occurrence #3 Phase of Operation		ION WITH OBJECT			
Finding(s) 7. OBJECT - TREE(S)				
Probable Cause					
		rd determines that the Pr PILOT. CONTRIBUTING FACT			

AND TREES.

	RBANKS,AK A/	C Reg. No. N560	oc 		ime (LCI)	- 1615 AS	
Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION) Airc	raft Damage			Inju	ries	
	SUB	STANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire		Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	ЛОИ	ΙE	Pass	0	0	0	0
Accident Occurred During -LANDING				-			
Aircraft Information							
Make/Model - CESSNA 140	Eng Make/Model -				Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -				tall Warni	ng System	- YES
Max Gross Wt - 1450		· RECIPROCATING-	CARBURE	TOR			
No. of Seats - 2	Rated Power -	115 HP					
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Departure Po			ON AIR	PORT		
Method - ACFT RADIO	LAKE MINCHUMINA	A, AK					
Completeness - UNK/NR	Destination		•	Airport Da			
Basic Weather - VMC	SAME AS ACC/INC	;		PHILLII			
Wind Dir/Speed- 180/004 KTS	ATO /A in a real					- 06	5 0
Visibility - 7.0 SM Lowest Sky/Clouds - 1700 FT SCA	ATC/Airspace	VED			Lth/Wid Surface	- 2500/ - SNOW	50
	ERCAST Type of Clearance			,		- SNOW - (ND V
Obstructions to Vision- HAZE	Type Apch/Lndg		TTEDNI	Kuliway	Status	- SINOM - I	JKI
Precipitation - SNOW	Type Apelly Ellag	INALLIC FA	IILKN				
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 30	Medical Cer	tificate	e - VALID	MEDICAL-W	AIVERS/LI	ИIТ
<pre>Certificate(s)/Rating(s)</pre>	Age - 30 Biennial Flight Review		Fligh	t Time (H	ours)		
PRIVATE	Current - YES	Total		340	Last 2	4 Hrs -	2
SE LAND, SE SEA	Months Since - 1 Aircraft Type - C-1	Make/Mo	de1-	280	Last 3	O Days-	5
	Aircraft Type - C-1	40 Instrum	ent-	0	Last 9	O Days-	8
Instrument Rating(s) - NONE							
Instrument kating(s) - None							
Narrative							
PILOT FAILED TO ESTABLISH PROPER RUNWAY	ALIGNMENT, AND TO MAINTAI	N DIRECTIONAL C	ONTROL	AFTER LANG	DING AT A	PRIVATE	
ORT. DURING THE LANDING ROLL, THE LEFT (GEAR CONTACTED A SNOW BERN	1 PARALLEL WITH	THE RUN	WAY, CAUS	ING THE AI	RPLANE	
OSE OVER. THE RUNWAY HAD 12-18 INCHES OF	FRESH LINIPLOWED SNOW FOR	WHICH NO NOTAM	HAD REI	EN PURITSI	HED.		

File No. - 992 11/06/89 FAIRBANKS, AK A/C Reg. No. N5606C Time (Lcl) - 1615 AST ON GROUND COLLISION WITH TERRAIN/WATER Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. TERRAIN CONDITION - BERM 2. PROPER ALIGNMENT - NOT OBTAINED - PILOT IN COMMAND 3. WEATHER CONDITION - ICE FOG 4. AIRPORT SNOW REMOVAL - NOT PERFORMED - AIRPORT PERSONNEL 5. VISUAL LOOKOUT - RESTRICTED - PILOT IN COMMAND LOSS OF CONTROL - ON GROUND Occurrence #2 Phase of Operation LANDING - ROLL Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO ASSURE CONDITION OF RUNWAY PRIOR TO LANDING AND FAILURE TO MAINTAIN RUNWAY ALIGNMENT DURING LANDING.

Make/Model - CESSNA 180	File No 993 11/18/89	PORT HEIDEN, AK	A/C Reg.	A/C Reg. No. N3654C Time (Lc1) - 17) - 1700 AST		
SUBSTANTIAL Fatal Serious Minor None		ENERAL AVIATION)	Aircraft Da	amage		Injur	ies	
Filight Conducted Under	, , p = 0, p = 1 g = 0				Fatal			None
Accident Occurred During -TAKEOFF -Aircraft Information Make/Model - CESSNA 180	Type of Operation -PERSONA	L	Fire	Crev	, 0	0	0	1
-Aircraft Information Make/Model - CESSNA 180			NONE	Pass	0	0	0	0
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2850 No. of Seats - 2	Accident Occurred During -TAKEOFF							
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2850 Max Gross Wt - 2850 No. of Seats - 2 Rated Power - 230 HP -Environment/Operations Information Weather Data Itinerary Airport Proximity WX Briefing - NO RECORD OF BRIEFING Last Departure Point OFF AIRPORT/STRIP Method - N/A SAME AS ACC/INC Completeness - N/A Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed - 300/015 KTS ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Distructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DUSK -Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 Months Since - 23 Make/Model 421 Last 30 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE Instrument Rating(s) - NONE	-Aircraft Information							
Max Gross Wt - 2850 No. of Seats - 2 Rated Power - 230 HP Environment/Operations Information Weather Data Weather Data Weather Data Wethod - N/A Completeness - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 300/015 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Destructions to Vision-NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Mendical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certage - 23 Months Since - 23 Make/Model - 421 Material Type - C-180 Material Type - C-180 Material Type - C-180 Material Time - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE	Make/Model - CESSNA 180	Eng Make/	Model - CONTI	NENTAL 0-470-R	ELT	Installed/A	ctivated	- YES/YE
No. of Seats - 2 Rated Power - 230 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING						tall Warnin	g System	- NO
Weather Data Itinerary Airport Proximity Wx Briefing - NO RECORD OF BRIEFING Last Departure Point OFF AIRPORT/STRIP Method - N/A Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed - 300/015 KTS Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Obstructions to Vision - NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 Aircraft Type - C-180 Instrument 20 Last 90 Days 30 Multi-Eng - 10 Instrument Rating(s) - NONE					RETOR			
Weather Data	No. of Seats - 2	Rated Pow	er - 230	O HP				
Wx Briefing - NO RECORD OF BRIEFING	Environment/Operations Information							
Method - N/A	Weather Data	Itinerary			Airport	Proximity		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 300/015 KTS Visibility - 20.0 SM ATC/Airspace Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Current - YES Total - 2000 Make/Model - 421 Months Since - 23 Make/Model - 421 Months Since - 23 Multi-Eng - 10 Instrument Rating(s) - NONE	Wx Briefing - NO RECORD OF BRI	EFING Last Depar	ture Point		OFF AI	RPORT/STRIP		
Basic Weather - VMC LOCAL Wind Dir/Speed- 300/015 KTS Runway Ident - N/A Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 Months Since - 23 Make/Model- 421 Last 30 Days- 10 Aircraft Type - C-180 Instrument- 20 Last 90 Days- 30 Multi-Eng - 10	Method - N/A	SAME AS	ACC/INC					
Wind Dir/Speed- 300/015 KTS Visibility - 20.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model- 421 Last 30 Days- 10 Aircraft Type - C-180 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Instrument Rating(s) - NONE	Completeness - N/A	Destination)		Airport D	ata		
Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument 20 Last 90 Days - 30 Instrument Rating(s) - NONE		LOCAL						
Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model- 421 Last 30 Days- 10 Aircraft Type - C-180 Instrument- 20 Last 90 Days- 30 Multi-Eng - 10 Instrument Rating(s) - NONE								
Lowest Ceiling - 2500 FT BROKEN Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model- 421 Last 30 Days- 10 Aircraft Type - C-180 Instrument- 20 Last 90 Days- 30 Multi-Eng - 10 Instrument Rating(s) - NONE								
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE								
Precipitation - NONE Condition of Light - DUSK Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE					Runway	Status -	N/A	
Condition of Light - DUSK -Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE		Type Apch/	Lndg - No	ONE				
-Personnel Information Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE								
Pilot-In-Command Age - 33 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE	Condition of Light - DUSK							
Certificate(s)/Rating(s) PRIVATE Current - YES SE LAND Months Since - 23 Aircraft Type - C-180 Instrument Rating(s) - NONE Siennial Flight Review Flight Time (Hours) Fl						MED TO NO		
PRIVATE Current - YES Total - 2000 Last 24 Hrs - 1 SE LAND Months Since - 23 Make/Model - 421 Last 30 Days - 10 Aircraft Type - C-180 Instrument - 20 Last 90 Days - 30 Multi-Eng - 10 Instrument Rating(s) - NONE							WAIVERS/	LIMII
SE LAND Months Since - 23 Make/Model- 421 Last 30 Days- 10 Aircraft Type - C-180 Instrument- 20 Last 90 Days- 30 Multi-Eng - 10 Instrument Rating(s) - NONE				•		•	Llma	
Aircraft Type - C-180 Instrument- 20 Last 90 Days- 30 Multi-Eng - 10 Instrument Rating(s) - NONE				Maka/Madal=	2000	Last 24		
Multi-Eng - 10 Instrument Rating(s) - NONE	SE LAND			Thethument-	441	Last 30		
		All'Chart Typ	e - C-180			Last 90	Days-	30
-Narrative	Instrument Rating(s) - NONE							
-Narrative				- 				
	Narrative							

Occurrence #1
Phase of Operation

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

- 1. TERRAIN CONDITION ROUGH/UNEVEN
- 2. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 3. TERRAIN CONDITION HIDDEN OBSTRUCTION(S)
- 4. UNSUITABLE TERRAIN NOT IDENTIFIED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADEQUATE PREFLIGHT PREPARATION AND FAILURE TO IDENTIFY SUITABLE TERRAIN FOR TAKEOFF.

File No 888 1/18/89 BAGLEY	', AL A/	C Reg. No	. N8456R	Т	ime (Lcl) -	0830 CST	
-Basic Information Type Operating Certificate-NONE (GENERAL	•	raft Dama	ge	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NON	:	Crew Pass	1	0	0	0
-Aircraft Information Make/Model - PIPER PA-28-140 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1950 No. of Seats - 4	9 ,,	1	ATING-CARBURE	S	Installed/A Stall Warnir		
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 200/003 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 10000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Power WALLS, MS Destination EUFAULA, AL ATC/Airspace ERED Type of Flight Pl Type of Clearance Type Apch/Lndg	an - VFR - NONE		OFF AI Airport D Runway Runway Runway		N/A N/A N/A	
	Age - 58 Biennial Flight Review Current - YES Months Since - 20 Aircraft Type - C-1	T M 50 I	al Certificat Fligh Otal - Wake/Model- nstrument- Walti-Eng -	nt Time (⊦		Hrs - Days- Days-	3 8 15 O
Instrument Rating(s) - NONE							
-Narrative ORDING TO THE SURVIVING PASSENGER, A PARTIA LD WAS TOO SHORT & THE ACFT HIT TREES & CRA DENCE OF FOREIGN OBJECT DMG (PEENING) WAS F RESPECTIVE SPARK PLUGS WERE DMGD TO THE PO TER ELECTRODES. A METALLURGICAL EXAM OF THE NING, THE VALVES WERE INTACT. FURTHER INVES HRS SINCE THEN. PIECES OF THAT VALVE WERE N UAL INSPN ON 1/12/89, AN EXHAUST VALVE FRAGE E REMOVED & INSPECTED; NO OTHER FRAGMENTS W	SHED. DRG AN EXAM OF THE TO IN THE #2 & #3 COMBUDINT THAT THEIR GROUND EFFRAGMENT REVEALED IT WESTIGATION REVEALED THE ENGRET FND & WERE ASSUMED TOWNERS FND IN THE ENGRETERS	E ENG, A STION CHA LECTRODES AS FM A E NG HAD AN O HAVE BE MUFFLER.	METAL FRAGMEN MBERS & ON TH HAD BECOME D ROKEN EXHAUST EXHAUST VALV EN "SPIT OUT" THE OWNER WA	IT WAS FND HEIR RESPE DISPLACED VALVE; H E FAILURE THRU THE	IN THE #3 CCTIVE PISTO & SHORTED THOWEVER, EXO IN 1980 & EXHAUST SY ED; THE EXHA	CYLINDER. ON FACES. O THE EEPT FOR HAD FLOWN 'S. DRG AN	

File No. - 888 1/18/89 BAGLEY, AL A/C Reg. No. N8456R Time (Lcl) - 0830 CST LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. MAINTENANCE - INADEQUATE - OTHER MAINTENANCE PSNL 2. IGNITION SYSTEM, SPARK PLUG - FOREIGN OBJECT DAMAGE 3. IGNITION SYSTEM, SPARK PLUG - SHORTED Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 4. OBJECT - TREE(S) 5. MISC EQPT/FURNISHINGS, SHOULDER HARNESS - NOT INSTALLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE MAINTENANCE BY OTHER MAINTENANCE PERSONNEL WHICH ALLOWED A FOREIGN OBJECT TO REMAIN IN THE ENGINE AND DAMAGE/SHORT THE SPARK PLUGS IN THE #2 AND #3 CYLINDERS. TREES IN THE EMERGENCY LANDING AREA CONTRIBUTED TO THE ACCIDENT. IF SHOULDER HARNESSES HAD BEEN INSTALLED AND USED, INJURY(S) MAY HAVE BEEN LESS SEVERE.

----Probable Cause----

File No 864 9/02/89 HANCEV	ILLE, AL A/C	Reg. No. N666KH	٦	ime (Lcl)	- 1830 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL	SUBS Fire		Fatal Crew O	1	Minor 1	None O
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Ī	Pass 0	0	0	0
Aircraft Information Make/Model - PIPER PA-24-260 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3200 No. of Seats - 4			TED	Installed/ tall Warni	ng System	 - YES/YES - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Poi CULLMAN,AL	int	•	Proximity RPORT/STRI	Þ	
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 8.0 SM Lowest Sky/Clouds - 3500 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Destination SAME AS ACC/INC ATC/Airspace ERED Type of Flight Pla Type of Clearance Type Apch/Lndg		Runway Runway Runway Runway	HAYNES PVT	- 36 - 1400/ - GRASS/TU	
	Age - 55	Medical Certi	ficate - VALID	MEDICAL-W	AIVERS/LIM	IT
, ,, 3 , ,	Biennial Flight Review		Flight Time (F	lours)		
COMMERCIAL SE LAND	Current - YES Months Since - 12 Aircraft Type - PA-2		1- 564 t- 16	Last 3	4 Hrs - O Days- O Days- UN	4 6 K/NR
Instrument Rating(s) - NONE						
FTER PURCHASING THE ACFT, THE PREV OWNER WAS JLLMAN, AL. ON THIS FLT, THE NEW OWNER INTEND LTHOUGH HE HAD PREVIOUSLY OWNED A PA-24-25O. LYING TO THE OWNER'S PVT STRIP TO HANGAR THE PCH WAS GOOD UNTIL THE CFI SUGGESTED THE OWNE DUNCED. THE CFI TOLD THE OWNER TO GO AROUND. WNER RPRTD THE ACFT WAS TOO SLOW, WAS BHND TH I IMPACTED ON THE KNOLL & CAME TO REST. THE O CFT BOUNCED WHEN IT CONTACTED A SMALL MOUND I	ED TO "GET CURRENT" & AC AT CULLMAN, THEY PRACTIC ACFT. AFTER 2 APCHS AT T R "CHOP" THE POWER TO LN THE OWNER INITIATED A GO E PWR CURVE & WOULDN'T C WNER SUFFERED A FRACTURE	CCOMPLISH REQUIRED LNDGS & AIRWOUTHE PVT STRIP, THEND. THEND. THEND WHILE THEND CLIMB ENOUGH TO CED VERTEBRA. THE	MENTS FOR A BIRK, THEN LNDD EY ELECTED TO SETTLED, TOUGE CFI OPERD TH LR A KNOLL BYE CFI RPRTD THAT	ENNIAL FLT & REFUELED LND. RPRTD CHED DOWN HA HE GEAR & F O THE END O DRG THE LI	REVIEW, BEFORE LY, THE ARD & LAPS. THE F THE RWY. NDG, THE	

File No. - 864

9/02/89 HANCEVILLE.AL

A/C Reg. No. N666KH

Time (Lcl) - 1830 CDT

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 2. FLARE IMPROPER PILOT IN COMMAND
- 3. SUPERVISION INADEQUATE OTHER CREW MEMBER

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED

Finding(s)

- 4. RECOVERY FROM BOUNCED LANDING
- 5. GO-AROUND INITIATED -
- 6. AIRSPEED INADEQUATE PILOT IN COMMAND
- 7. REMEDIAL ACTION INADEQUATE OTHER CREW MEMBER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT/OWNER AND HIS FAILURE TO OBTAIN/MAINTAIN PROPER AIRSPEED FOR THE GO-AROUND; AND INADEQUATE SUPERVISION AND REMEDIAL ACTION BY THE INSTRUCTOR PILOT (OTHER CREW MEMBER). THE UNEVEN SURFACE OF THE PRIVATE STRIP WAS A CONTRIBUTING FACTOR.

File No 841	2/17/89 HAMB	URG, AR	A/C	Reg. No. N3	48U	Т	ime (Lcl)	- 1755 (CST
-Basic Information Type Operating Certifica	ate-ON-DEMAND A	IR TAXI		aft Damage ROYED		Fatal	Inj Serious	uries Mino	r None
Type of Operation Flight Conducted Under Accident Occurred During	-PERSONAL -14 CFR 91 g -UNKNOWN		Fire NONE		Crew Pass		O O	0	_
-Aircraft Information Make/Model - BEECH 58 Landing Gear - TRICYCLI Max Gross Wt - 5400 No. of Seats - 6			Eng Make/Model - Number Engines - Engine Type - Rated Power -				Installed tall Warn	-	ed - YES/NO em - YES
Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- UNK/NI Visibility - 2.0 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision	CORD OF BRIEFIN R OOO SM UNK/NR 500 FT OVE n- FOG - DRIZZLE	IG I	tinerary Last Departure Poi RUSTON,LA Destination MONROE,LA TC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	n - NONE		OFF AI Airport D Runway Runway Runway Runway	Proximity RPORT/STR ata Ident Lth/Wid Surface Status	IP - N/A - N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s COMMERCIAL SE LAND, ME LAND	s)	Cı	27 ial Flight Review urrent - YES onths Since - 2	Total			ours) Last	NO WAIVE 24 Hrs - 30 Days-	UNK/NR
			ircraft Type - A36	•	rument-	240		90 Days-	
Instrument Rating(sNarrative HOME ARPT FOR THE ACFT WAS HORIZATION. THEY FLEW TO RI HOME ARPT AT A SOMEWHAT HE ROUND ABOUT FASHION." AT CRASHED APRX 60 MI NORTHEAS ES & CRASHED ON A NORTHWES IMPACT PART FAILURE OR MALI RCAST, VIS 2 MI WITH FOG & SET AT THE ACONT SITE WAS	S AT MONROE, LA USTON, LA (APRX IGHER PRICE. AT 1650 CST, THE A ST OF RUSTON (3 TERLY HDG. THE FUNCTION OF THE LIGHT DRIZZLE.	30 MI N RUSTON CFT WAS 7 MI NOI WRECKAGI ACFT OI	WEST OF MONROE) & P , THE PIC TOLD AN A OBSERVED TO DEPART RTH-NORTHEAST OF MO E WAS SCATTERED IN R ENGS WAS FOUND. W	URCHASED FUE CQUAINTANCE RUSTON IN A NROE). AN IN EXCESS OF 3C X IN THE ARE	EL, ALTHO THAT HE NORTHEA VESTIGAT OO FT ON	UGH FUEL W WOULD BE R STERLY DRC ION REVEAL HEAVILY WO TIMATED TO	AS AVAILA TRNG TO M TN. SUBSE ED THE AC ODED TERR BE ABOUT	BE AT ONROE IN QUENTLY, FT HIT AIN. NO 500 FT	

2/17/89 HAMBURG, AR A/C Reg. No. N348U File No. - 841 Time (Lc1) - 1755 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation UNKNOWN Finding(s) 1. STOLEN AIRCRAFT/UNAUTHORIZED USE 2. LIGHT CONDITION - DUSK 3. WEATHER CONDITION - CLOUDS 4. WEATHER CONDITION - LOW CEILING 5. WEATHER CONDITION - FOG 6. WEATHER CONDITION - DRIZZLE 7. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation UNKNOWN Finding(s) 8. OBJECT - TREE(S) 9. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND 10. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #3 Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT CONTINUED VFR FLIGHT INTO IMC CONDITIONS AND FAILED TO MAINTAIN SUFFICIENT ALTITUDE ABOVE THE WOODED TERRAIN.
WEATHER CONDITIONS, LOW LIGHT CONDITIONS AT OR NEAR DUSK, LACK OF VISUAL CUES (VISUAL PERCEPTION) BY THE PILOT, AND
TREES WERE CONTRIBUTING FACTORS.

File No 902 3/24/89 MAYFL	OWER, AR	A/C Reg. No	o. N2604N	Т	ime (Lcl)	- 1000 C	DT
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION)	Aircraft Dama SUBSTANTIAL Fire NONE		Fatal 1 1		ries Minor O O	None O O
Aircraft Information Make/Model - PIPER PA-38-112 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/N Number Eng Engine Typ Rated Powe	e - RECIPRO	CATING-CARBURET	S	Installed/ tall Warni		d - YES/NO m - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	N. LITTLE Destination LOCAL ATC/Airspace Type of Fli	E ROCK,AR ight Plan - NONI earance - NONI	<u>:</u> :	OFF AI Airport D Runway Runway Runway		- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 19 Biennial Flight F Current Months Since Aircraft Type	Review - N/A - N/A	cal Certificate Flight Total - Make/Model- Instrument-	Time (F 50 50	lours) Last 2 Last 3	4 Hrs -	UNK/NR 6
Instrument Rating(s) - NONENarrative THE STU PILOT AND HIS STU PILOT RATED PASSENG EYEWITNESSES LOCATED IN A BOAT IN A COVE NEAR UNTIL IT AGAIN WAS SPOTTED, APPROACHING DIREC COVE. THE EYEWITNESSES STATED THE ACFT FLEW D THE CLIMB THE RIGHT WING STALLED AND THE AIRC AIRCRAFT RAPIDLY SANK IN 30 FEET OF WATER BEF	THE EAST BANK OF TLY AT THEM AT LOW DIRECTLY OVERHEAD A BRAFT DESCENDED RAF ORE IT COULD BE RE	THE RIVER. THE VALTITUDE FROM AND PULLED UP SIP PIDLY NOSE DOWN EACHED. THE STU	ACFT DISAPPEAF THE NORTHEAST HARPLY INTO A (UNTIL HITTING HAD RECENTLY E	RED FOR A ALONG TH CLIMB. AT THE WATE BEEN RELE	A BRIEF TIM HE FINGER THE TOP C ER. THE EASED FOR		
SOLO TRNG FLTS AND HAD ASKED IF PASSENGERS WE ALONG. INSPECTION OF THE ACFT REVEALED NO PRE COMPONENTS.	RE ALLOWED. THE ST	TU WAS INSTRUCT	ED THAT NO PASS	SENGERS C	OULD BE		

3/24/89 File No. - 902 MAYFLOWER, AR A/C Reg. No. N2604N Time (Lcl) - 1000 CDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation MANEUVERING Finding(s) 1. AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND 2. STALL - INADVERTENT - PILOT IN COMMAND OSTENTATIOUS DISPLAY - PILOT IN COMMAND 4. ALTITUDE - INADEQUATE - PILOT IN COMMAND OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER DESCENT - UNCONTROLLED Phase of Operation Finding(s) 6. OBJECT - WATER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOTS FAILURE TO MAINTAIN AIRSPEED (VS), AND INADVERTANT ENTRY INTO A STALL WITH NECESSARY REMEDIAL ACTION NOT UNDERSTOOD.

----Probable Cause----

-Basic Information Type Operating Certificate-NONE (GENERA	AV.TATTON) A	ircraft Damage			Injuri	35	
Type operating centrificate None (GENERA		SUBSTANTIAL		Fatal	Serious	=5 Minor	None
Type of Operation -PERSONAL		ire	Crew		1	0	0
Flight Conducted Under -14 CFR 91		NONE	Pass	0	1	0	0
Accident Occurred During -DESCENT							
-Aircraft Information							
Make/Model - CESSNA 172M		1 - LYCOMING 0-3	20-E2D				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300	Number Engine Engine Type			S	tall Warning	Syste	m - YES
No. of Seats - 4	Rated Power						
	Itinerary			Ainport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		Point			RPORT/STRIP		
Method - N/A	OAKLAND, AR				, 51		
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	GASTON, AR			_			
Wind Dir/Speed- 170/014 KTS Visibility - 15.0 SM	ATC/Airspace				Ident - Lth/Wid -	N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight	Plan - NONE			Surface - I		
Lowest Ceiling - NONE	Type of Cleara				Status - I		
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE		•		•	
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 32	` Medical C	entifica	+A - VALID	MEDICAL-WAI	VEDS/I	TMTT
Certificate(s)/Rating(s)	Biennial Flight Revi			ht Time (H		V L N J / L	11111
COMMERCIAL	Current -	YES Total	-	550	Last 24 l		
ME LAND	Months Since -	14 Make/I	Model-	400	Last 30 I	Days-	UNK/NR
	Aircraft Type -	BE-24 Instru	ument-	78 50	Last 90 l Rotorcra	Days-	UNK/NR
		Multi	-Eng -	50	Rotorcra	rτ -	UNK/NK
Instrument Rating(s) - AIRPLANE							
Name at the first of the second secon							
-Narrative ACCIDENT AIRCRAFT WAS OBSERVED AT VERY LO	" VITITIDE UNED V 1 VA	E WITNESSES STA	TED THAT	THE DIT D	OCKED THE WILL	NGS	
ERAL TIMES AS IF "WAVING" TO SOMEONE ON TH						143	

Time (Lc1) - 1500 CDT File No. - 968 5/28/89 OAKLAND.AR A/C Reg. No. N9646H Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING Finding(s) 1. OBJECT - WIRE, TRANSMISSION 2. BUZZING - PERFORMED - PILOT IN COMMAND OSTENTATIOUS DISPLAY - PILOT IN COMMAND 4. ALTITUDE - INADEQUATE - PILOT IN COMMAND 5. JUDGEMENT - POOR - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - UNCONTROLLED Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. TERRAIN CONDITION - WATER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT ELECTING TO BUZZ PERSONS ON THE LAKE AT LOW ALTITUDE AND COLLIDING WITH POWER LINES.

File No 842 7/05/89 REYNO,	AR A/C I	Reg. No. N4931X	т	ime (Lcl) -	1100 CDT	
Basic Information Type Operating Certificate-AGRICULTURAL	AIRCRAFT Aircra DESTR	t Damage	Fatal	Injur Serious		None
Type of Operation -AERIAL APPLIC Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING		Crew	1	0	0	0
Aircraft Information Make/Model - ROCKWELL-INTERNATIONAL S Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 7000 No. of Seats - 1	Number Engines -	1 ECIPROCATING-CARBUR	S	Installed/A tall Warnin		- YES-UNK/NR - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 050/007 KTS Visibility - 5.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1700 FT BROKE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point REYNO,AR Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	OFF AI Airport D Runway Runway Runway	Ident - Lth/Wid - Surface -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 48 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-150	Total - Make/Model-	ht Time (H 10000 2000	ours) Last 24 Last 30	Hrs - UN Days- UN	K/NR K/NR
Instrument Rating(s) - NONE						
THE ACFT WAS OBSERVED ON A FINAL SWATH RUN (TO RUN, THE ACFT ENTERED A CLIMB OVER A WOODED AR PASS OVER THE NORTH EDGE OF THE FIELD. A WITNE SNAP-ROLL. IT THEN ENTERED A NEAR VERTICAL DES WAS FROM OSO AT 7 KTS. NO PRE-ACDNT MALFUNCTION	EA & THE PLT BEGAN A STEE SS RPRTD THAT ABOUT 3/4 O CENT & CRASHED. APRX 33 M	P LEFT TURN TO MANE THE WAY THRU THE I SOUTH AT JONESBOR	UVER THE A TURN, THE	CFT FOR A T ACFT APPEAR	RIM ED TO	

7/05/89 REYNO, AR A/C Reg. No. N4931X Time (Lc1) - 1100 CDT File No. - 842

Occurrence #1

LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 3. MANEUVER EXCESSIVE PILOT IN COMMAND
- 4. AIRSPEED INADEQUATE PILOT IN COMMAND
- 5. STALL INADVERTENT PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE PILOT WHICH RESULTED IN A TIGHT MANEUVER AT INADEQUATE AIRSPEED AND A SUBSEQUENT STALL. A CONTRIBUTING FACTOR WAS THE PRESENCE OF HIGH OBSTRUCTIONS (TREES).

Type Operating Certificate-AGRICUL	TURAL AIRCRAFT		e		Injuri		
Type of Operation -AERIAL	ADDL TOATTON	DESTROYED Fire	Crew	Fatal O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR	137	ON GROUND	Pass	-	0	0	0
Accident Occurred During -DESCENT							
ircraft Information							
Make/Model - ROCKWELL INTERNATI Landing Gear - TAILWHEEL-ALL FIXE		ke/Model - P&W PT-6- Engines - 1	15AG		installed/Ac tall Warning		
Max Gross Wt - 6000	Engine			3	tari warning) System	- 1L3
No. of Seats - 1		Power - 680 HP					
:nvironment/Operations Information							
Meather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRI Method - N/A	EFING Last De BONO.	parture Point		UFF AIR	RPORT/STRIP		
Completeness - N/A	Destinat			Airport Da	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 270/008 KTS						31	
Visibility - 8.0 SM	ATC/Airsp				Lth/Wid -		
		Flight Plan - NONE Clearance - NONE			Surface - Status -		JKF
Obstructions to Vision- NONE		ch/Lndq - TRAFF	IC PATTERN	Karinay	Jeacas		
Precipitation - NONE	2						
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 28	Medica	l Certifica	to - VALID	MEDICAL-NO	WATVEDS	/
Certificate(s)/Rating(s)	Riennial Flid	ht Review		nt Time (Ho		WAI VERS	LIMIT
COMMERCIAL	Current	- YES To	tal -	4300	Last 24		15
SE LAND	Months Si	nce - 21 Ma	ke/Model-	1000	Last 30		150
HELICOPTER	Aircraft		strument-		Last 90	,	320
		MC	ılti-Eng -	O	Rotorcra	ι τ τ -	1000
Instrument Rating(s) - NONE			:				
larrative							
PILOT DECIDED TO MAKE A GO-AROUND AF							
MPLETE THE GO-AROUND AND THE PILOT	TUDNIED DOWNWIND TO	AVOID A TREE THE AC	ET SETTLED I	INCONTROLL	TO INTO TREE	· C	

A/C Reg. No. N8425V	Time (Lc1) - 1500 CDT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN AIRSPEED DURING A GO-AROUND RESULTING IN THE AIRPLANE STALLING/MUSHING AND DESCENDING OUT OF CONTROL UNTIL COLLISION WITH TREES.

Basic Information Type Operating Certificate-NONE (GENERAL AVIATION Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	ON) Aircraft SUBSTAN Fire NONE	_		Injur Serious O	ies Minor O	None
Flight Conducted Under -14 CFR 91	Fire	Crew	0			
Flight Conducted Under -14 CFR 91				0		1
	·		0	0	Ö	Ó
			v	Ŭ	Ü	Ŭ
-Aircraft Information						
	Eng Make/Model - LYC	OMING 0-235-L2C		nstalled/A		
	Number Engines - 1			all Warnin	g System [.]	- YES
	J ,,	IPROCATING-CARBUR	ETOR			
No. of Seats - 2 R	Rated Power -	110 HP				 -
-Environment/Operations Information						
	nerary		Airport F			
	ast Departure Point		OFF AIR	PORT/STRIP		
	HOT SPRINGS, AR					
	stination		Airport Da	ita		
	FORT SMITH,AR		_			
Wind Dir/Speed- 050/004 KTS			,		N/A	
	/Airspace	None		Lth/Wid -		
Lowest Sky/Clouds - 25000 FT SCATTERED Ty				Surface -		
	ype of Clearance -		Runway	Status -	N/ A	
•	ype Apch/Lndg -	FURCED LANDING				
Precipitation - NONE Condition of Light - DAYLIGHT						
-Personnel Information Pilot-In-Command Age -	41	Medical Certifica	+o - VALTD	MEDICAL -NO	WATVEDS /	TMTT
	1 Flight Review		ht Time (Ho		WAIVERS/	191 - 1
	rent - YES	Total -			Hrs - UN	(/NR
SE LAND Mont	ths Since - 20	Make/Model-		Last 30		5
	craft Type - UNK/NR			Last 90		6
	erare type district	Multi-Eng -		Rotorcr	aft -	Ö
Instrument Rating(s) - NONE						

File No. - 869 7/31/89 FT SMITH, AR A/C Reg. No. N757HY Time (Lcl) - 1545 CDT LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - ROADWAY/HIGHWAY 5. OBJECT - SIGN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. A CONTRIBUTING FACTOR WAS THE ROAD SIGN.

----Probable Cause----

File No 839 8/06/89 MOSCOW,AR	A/C Reg.	No. N4943X	Т	ime (Lc1) -	1015 CST	
-Basic Information Type Operating Certificate-AGRICULTURAL AIRCRAFT	Aircraft Da DESTROYED	J	Fatal		Minor	None
Type of Operation -AERIAL APPLICATION Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING	Fire ON GROUND		ss O	0	0	0
-Aircraft Information Make/Model - ROCKWELL INTERNATIONAL S-2R Eng Ma Landing Gear - TAILWHEEL-ALL FIXED Number Max Gross Wt - 7000 Engine	ke/Model - P&W R Engines - 1 Type - RECIPF Power - 600	-1340-AN1 ROCATING-CARBU D HP	ELT S IRETOR	Installed/A tall Warnin	ctivated g System	- NO -N/ - YES
Method - N/A SAME	parture Point AS ACC/INC		OFF AI	Proximity RPORT/STRIP		
Completeness - N/A Destinat Basic Weather - VMC LOCAL Wind Dir/Speed- 280/008 KTS Visibility - 7.0 SM ATC/Airs				Ident -	N/A	
Lowest Sky/Clouds - UNK/NR Type of Lowest Ceiling - 4000 FT BROKEN Type of	Flight Plan - NO Clearance - NO cch/Lndg - ST	ONE	Runway	Lth/Wid - Surface - Status -	N/A	
	Med	dical Certific	ate - VALIC	MEDICAL -WA	TVFRS/LIM	 TT
Certificate(s)/Rating(s) Biennial Flig	ht Review	Fli	ght Time (F	ours)	,	
COMMERCIAL, CFI Current	- YES nce - 21	Total -	32810	Last 24	Hrs -	5
SE LAND, ME LAND Months S GLIDER Aircraft	nce - 21 Type - BE-35	Make/Model- Instrument- Multi-Eng -	155	Last 30 Last 90	Days- Days-	92 275
Instrument Rating(s) - AIRPLANE						•
-Narrative PLT STATED THAT AS HE WAS MAKING PASSES FOR AERIAL APPLIM A POWER LINE POLE. THE ACFT THEN SPUN AROUND & CRASHED BURNED & WAS DESTROYED.						

File No. - 839 8/06/89 MOSCOW, AR A/C Reg. No. N4943X Time (Lcl) - 1015 CST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. OBJECT - GUY WIRE

2. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE VISUAL LOOKOUT BY THE PILOT. THE GUY WIRE WAS A CONTRIBUTING FACTOR.

File No 887 8/18	/89 CONCORD,	, AR A	/C Reg. No. N699T	•	Time (Lc)	I) - 1400 CDT	
, i	PERSONAL 14 CFR 91	SU Fir	craft Damage BSTANTIAL e FLIGHT	Fa Crew Pass	Ir atal Seriou O O	0	None 1 1
Aircraft Information Make/Model - BEECH V35B Landing Gear - TRICYCLE-RE Max Gross Wt - 3400 No. of Seats - 4	TRACTABLE	Number Engines	- CONTINENTAL IO- - 1 - RECIP-FUEL INJE - 285 HP			ed/Activated rning System	
3.	TS SM 1/A 8000 FT BROKEN IAZE IONE	Itinerary Last Departure P OLIVE BRANCH,M Destination ROGERS,AR ATC/Airspace Type of Flight P Type of Clearanc Type Apch/Lndg	S 1an - IFR e - IFR	Airr F F F F F	rport Proximit DFF AIRPORT/ST port Data Runway Ident Runway Lth/Wic Runway Surface Runway Status	TŘIP - N/A d - N/A e - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP SE LAND,ME LAND		ge - 64 iennial Flight Review Current - YE Months Since - 8 Aircraft Type - 70	S Total Make/Moo O Instrume		D Las	WAIVERS/LIM t 24 Hrs - t 30 Days- t 90 Days-	1 30 50
Instrument Rating(s) -	AIRPLANE						
Narrative THE PILOT/OWNER SAID THAT WHILE C AN ELECTRICAL ODOR. THE CABIN BEG DESCENT WAS MADE. DURING THE DESC EXTENDED BY USING EMERGENCY PROCE THERE WAS NO CONTINUATION OF FIRE AN ALTERNATOR WIRING HARNESS, WHI FIRE ERUPTED.	GAN TO FILL WITH CENT, THE SMOKE COURES. WHILE LA CON THE GROUND.	H DENSE SMOKE, SO HE WAS SUBSTANTIALLY CL ANDING ON ROLLING TER . A POST-ACDNT INVEST	SHUT OFF ALL ELEC EARED FROM THE CA RAIN, THE GEAR CO IGATION REVEALED	CTRICAL SWI ABIN. THE L DLLAPSED & THE OWNER	ITCHES. AN EMI LANDING GEAR N THE ACFT WAS HAD IMPROPERI	ERGENCY WAS DAMAGED. LY INSTALLED	

File No. - 887 8/18/89 CONCORD.AR A/C Reg. No. N699T Time (Lc1) - 1400 CDT Occurrence #1 FIRE Phase of Operation CLIMB - TO CRUISE Finding(s) 1. ELECTRICAL SYSTEM.ELECTRIC WIRING - CHAFED 2. MAINTENANCE, INSTALLATION - IMPROPER - PILOT IN COMMAND 3. ELECTRICAL SYSTEM, ELECTRIC WIRING - FIRE Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY ______ Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 4. TERRAIN CONDITION - ROUGH/UNEVEN Occurrence #4 GEAR COLLAPSED Phase of Operation LANDING Finding(s) 5. LANDING GEAR - OVERLOAD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER INSTALLATION OF THE ALTERNATOR WIRING HARNESS BY THE PILOT/OWNER WHICH RESULTED IN CHAFED WIRING AND A SUBSEQUENT ELECTRICAL FIRE. THE UNEVEN TERRAIN WAS A CONTRIBUTING FACTOR.

File No 872 8/25/89 WABBA	SEKA, AR	A/C Reg. No. I	N10103	Time (Lc1) - 19	5 CDT
Basic Information Type Operating Certificate-AGRICULTURAL Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137 Accident Occurred During -TAKEOFF		Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew O Pass O	0	nor None 0 1 0 0
Aircraft Information Make/Model - AIR TRACTOR AT-401 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 7860 No. of Seats - 1		del - P&W R-1340 nes - 1 - RECIPROCAT		Installed/Activ Stall Warning Sy	
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 20.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS AC Destination LOCAL ATC/Airspace TERED Type of Flig	C/INC ht Plan - NONE rance - NONE	OFF A Airport JERRY Runwa Runwa Runwa Runwa	: Proximity AIRPORT/STRIP Data ''S PVT ay Ident - 18 ay Lth/Wid - 2' ay Surface - ASF ay Status - DR'	PHALT
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - AIRPLANE	Age - 29 Biennial Flight Re Current Months Since Aircraft Type	view - YES Tota - 17 Make - UNK/NR Ins	Certificate - VALI Flight Time (al - 4600 e/Model- 364 trument- UNK/NR ti-Eng - UNK/NR		s - 9 vs- 100 vs- 200
Narrative HE PILOT SAID THAT SHORTLY AFTER TAKING OFF ETTLED. THE RIGHT WING AND SPRAY BOOM CONTAC LEVEE & DAMAGED THE LANDING GEAR. THE PLT E AY HAVE CONTRIBUTED TO THE OCCURRENCE. ALSO,	TED TALL GRASS. THE	ATION FLT, HE BEG E ACFT THEN VEERI MP (87 DEG) & REI	ED INTO A RICE FIEL LATIVELY HIGH DENSI	TURN & THE ACF D WHERE IT STRUC TY ALTITUDE (200	CK

File No. - 872

8/25/89

WABBASEKA.AR

A/C Reg. No. N10103 Time (Lc1) - 1915 CDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

- 1. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 2. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 3. TERRAIN CONDITION HIGH VEGETATION
- 4. CLEARANCE NOT MAINTAINED PILOT IN COMMAND
- 5. LOAD JETTISON NOT ATTAINED -
- 6. TERRAIN CONDITION DIRT BANK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT WHICH RESULTED IN HIS FAILURE TO MAINTAIN CLEARANCE FROM THE TALL VEGETATION (GRASS). THE TALL VEGETATION & HIGH DENSITY ALTITUDE WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 928 10/20/89 HIWAS	SE,AR A/C R	eg. No. N96299	96299 Time (Lc1) - 0115 CDT			-
-Basic Information Type Operating Certificate-NONE (GENERA	I AVIATION) Aircraf	t Damage		Injur	ries	
Type operating our tri route none (denena	SUBSTA		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	3
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 172Q	Eng Make/Model - LY					
Landing Gear - TAILWHEEL-ALL RETRACTAB				itall Warnir	ng System	- YES
Max Gross Wt - 2558	Engine Type - RE		ETOR			
No. of Seats - 1	Rated Power -	180 HP 				
Environment/Operations Information						
Weather Data	Itinerary			Proximity	_	
Wx Briefing - NO RECORD OF BRIEFING	•		UFF A	RPORT/STRIF	,	
Method - N/A Completeness - N/A	DENVER,CO Destination		Airport [\a_+a		
Basic Weather - VMC	ROGERS, AR		ATPORT	ala		
Wind Dir/Speed- 160/005 KTS	ROGERS, AR		Runway	· Ident -	- N/A	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- VFR			- N/A	
Lowest Ceiling - NONE	Type of Clearance				- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING	_			
Precipitation - NONE						
Condition of Light - NIGHT(DARK)						
Personnel Information						
Pilot-In-Command	Age - 43 Biennial Flight Review	Medical Certifica	te - VALÍ) MEDÍCAL-NO) WAIVERS/	'LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (F	lours)		
PRIVATE	Current - UNK/NR	lotal -	103	Last 24	Hrs -	4
SE LAND	Months Since - UNK/NR Aircraft Type - UNK/NR	Make/Model-	58	Last 30	Days-	6 7
	Aircraft Type - UNK/NK	Instrument-	O	Last 90	Days-	,
Instrument Rating(s) - NONE						
Thistrument Rating(s) - None						
Narrative E PILOT DECLARED A "MAYDAY" DUE TO A LOSS O OSS COUNTRY FLIGHT. A FORCED LANDING WAS MA CIDENT EXAMINATION REVEALED THE FUEL TANKS	DE ON HILLY, WOODED TERRAIN					

File No. - 928 10/20/89 HIWASSE,AR A/C Reg. No. N96299 Time (Lcl) - 0115 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. FLUID, FUEL - EXHAUSTION 2. IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND 3. PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND 4. REFUELING - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. LIGHT CONDITION - DARK NIGHT 6. TERRAIN CONDITION - NONE SUITABLE

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO PROPERLY PLAN THE FLIGHT AND INSURE THAT THERE WAS SUFFICIENT FUEL TO COMPLETE THE FLIGHT. THE PILOT ALSO FAILED TO MONITOR THE FUEL LEVEL DURING THE FLIGHT.

----Probable Cause----

File No 838 10/02/89 SEDON	A,AZ	A/C Reg.	No. N617CC	Т	ime (Lc1)	- 1300 MST	•
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION)	Aircraft Da DESTROYED Fire NONE	mage Crew Pass		Injur Serious O O	ries Minor O O	None 1 0
Aircraft Information Make/Model - CESSNA 501 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 11850 No. of Seats - 8					Installed/A		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 130/025 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SCOTTSDA Destination SAME AS ATC/Airspace Type of Fl	LE,AZ ACC/INC ight Plan - NC earance - NC Lndg - SI		ON AIR Airport D SEDONA Runway Runway Runway	ata Ident Lth/Wid - Surface -	·	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND,SE SEA HELICOPTER ,GLIDER	Age - 68 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 2	lical Certifica Flig Total - Make/Model- Instrument- U Multi-Eng - U	ht Time (H 13460	ours) Last 24 Last 30 Last 90	4 Hrs -	1 25 122
Instrument Rating(s) - AIRPLANE, HENarrative DRG ARRIVAL, THE PLT CONTACTED SEDONA UNICOM TO 25 KTS. HE RPRTD THAT TURBULENCE WAS STRON A STRONG DOWNDRAFT WAS ENCOUNTERED ON FINAL A DOWNDRAFT WERE RPRTD TO BE EXCEPTIONALLY STRO THEN IT PITCHED UP & BEGAN TO PORPOISE WITH I NEEDED 5 TO 7 SEC TO SPOOL UP. THE PLT SAID T NOT RECOVER. SUBSEQUENTLY, IT WENT OFF THE RI BEFORE STOPPING. NO MECHANICAL PROBLEM OF THE	& WAS ADVISED THA G THRU-OUT THE TR PCH & POWER WAS I NG OVER THE THRES NCREASING AMPLITU HAT AFTER THE ACF GHT SIDE OF THE R	AFFIC PATTERN. NCREASED "TO M HOLD. THE PLT DE. ON THE 2ND T PORPOISE 3 T WY, CROSSED A	FULL FLAPS WE INTAIN VASI A STATED THE ACF TOUCHDOWN, PO IMES, IT WAS I PARALLEL TAXIW	RE LOWERED ND VREF." T TOUCHED WER WAS AP N A STALL AY & ENTER	ON FINAL A TURBULENCE DOWN ON ALL PLIED, BUT FROM WHICH ED A WOODED	APCH. E & A _ 3 GEAR, THE ENG IT WOULD	

File No. - 838 10/02/89 SEDONA, AZ A/C Reg. No. N617CC Time (Lcl) - 1300 MST Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 2. WEATHER CONDITION - CROSSWIND 3. WEATHER CONDITION - GUSTS 4. WEATHER CONDITION - TURBULENCE 5. WEATHER CONDITION - DOWNDRAFT 6. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 7. FLARE - NOT ATTAINED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ABORTED Finding(s) 8. RECOVERY FROM BOUNCED LANDING - NOT ATTAINED - PILOT IN COMMAND 9. GO-AROUND - ATTEMPTED -10. AIRSPEED - INADEQUATE -11. STALL IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE PILOT WHICH RESULTED IN HIS INABILITY TO FLARE THE AIRCRAFT AND/OR RECOVER FROM A BOUNCED LANDING. CONTRIBUTING FACTORS WERE: CROSSWIND, GUSTS, TURBULENCE, DOWNDRAFT, AND THE PILOT'S INADEQUATE COMPENSATION FOR WIND CONDITIONS.

File No 973 1/10/89 RIPON	, CA	A/C Reg. No.	Reg. No. N8974M Time (Lc1) - 1012 PST				ST
-Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BUSINESS	L AVIATION)	Aircraft Damage DESTROYED Fire	Crew	Fatal 2		ies Minor O	None O
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		ON GROUND	Pass	1	Ö	Ö	Ö
-Aircraft Information Make/Model - BEECH 35-B33 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3000 No. of Seats - 4	Eng Make/Mo Number Engi Engine Type Rated Power	- RECIP-FUEL		S	Installed/A tall Warnin	g System	n - YES
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Departu HAYWARD,CA			Airport	Proximity RPORT/STRIP		
Completeness - PARTIAL,LMTD BY FCSTR Basic Weather - IMC Wind Dir/Speed- CALM Visibility - 1.000 SM Lowest Sky/Clouds - UNK/NR	Destination EL MONTE,C ATC/Airspace	A ht Plan - IFR rance - IFR		Runway Runway		N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND		view - YES Tot - 14 Mak - C-210 Ins	al -	t Time (H 673 8 92	ours) Last 24 Last 30 Last 90	Hrs - l Days- l Days- l	JNK/NR
Instrument Rating(s) - AIRPLANE							
Narrative FORE TAKEOFF, THE PLT RCVD A WX BRIEFING FO DRECAST AT 5000 FT) & A PRECAUTION FOR MODE DERATE TO SEVERE ICING CONDS, BUT THE SIGME VD CLNC FOR AN AMENDED ROUTE OF FLT, WHICH VELING AT 11,000', THE PLT RPRTD THE ACFT W S COORDINATING WITH TRACON FOR A LOWER ALTI A RIGHT WING DOWN, NOSE LOW ATTITUDE & BUR	RATE ICING CONDS. T NT WAS NOT VALID FO WENT THRU THE EDGE AS IN ICING CONDS & TUDE, THE PLT RPRTD	HE BRIEFING DID R THE PLT'S PROP OF AN AREA DEFIN WOULD NOT MAINT THE ACFT WAS ST	NOT INCLUDE OSED ROUTE (ED BY SIGMET AIN ALTITUDE ALLING. SHOF	SIGMET L DF FLT. H T LIMA 1. E. AS THE RTLY THER	IMA 1 INFO OWEVER, THE SHORTLY AF ARTCC CONT EAFTER, IT	ABOUT PLT TER ROLLER	

RIPON, CA File No. - 973 1/10/89 A/C Reg. No. N8974M Time (Lc1) - 1012 PST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE - NORMAL Finding(s) 1. WEATHER CONDITION - ICING CONDITIONS 2. FLIGHT INTO KNOWN ADVERSE WEATHER - INITIATED - PILOT IN COMMAND 3. WING - ICE Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE Finding(s) 4. STALL - UNCONTROLLED -Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CONTINUED FLIGHT BY THE PILOT INTO KNOWN ICING CONDITIONS AND STRUCTURAL (WING) ICING, WHICH SUBSEQUENTLY RESULTED IN AN UNCONTROLLED STALL. A CONTRIBUTING FACTOR WAS THE ICING CONDITION.

 -Basic Information Type Operating Certificate-NONE (GENERAL 	AVIATION) Aircraf	t Damage		Injur	ies	
Turn of Organities DEDCOMAL	DESTRO		Fatal	Serious O	Minor O	None O
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONF	Crew Pass	1	0	0	0
Accident Occurred During -MANEUVERING						
Aircraft Information	For Make (Mada)	COMING O 220 F20	EL T	T+-11/A		VES /NO
Make/Model - GRUMMAN AA5A Landing Gear - TRICYCLE-FIXED	Eng Make/Model - LY Number Engines - 1			Installed/Atall Warnin		
Max Gross Wt - 2000	Engine Type - RE		-	(a) #a	ig Jysteii	125
No. of Seats - 4	Rated Power -					
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point		OFF AI	RPORT/STRIP		
Method - N/A Completeness - N/A	HEMET,CA Destination		Airport D	a+a		
Basic Weather - IMC	PACOIMA, CA		A II poi C B	ata		
Wind Dir/Speed- 140/005 KTS	, Addina, da		Runway	Ident -	N/A	
Vicibility - 2 500 CM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - PART OBS	Type of Flight Plan	- NONE		Surface -	N/A	
Lowest Ceiling - 4600 FT BROKE			Runway	Status -	N/A	
Obstructions to Vision- HAZE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - NIGHT(DARK)						
Personnel Information	A co	Madiaal Contificat	- \/A TC	MEDICAL WA	TVCDC / LT	мтт
	Age - 65 Biennial Flight Review		e - VALIL t Time (F		IVEKS/LI	MII
PRIVATE	Current - UNK/NR	Total -	800	last 24	Hrs - L	NK/NR
SE LAND	Months Since - UNK/NR	Make/Model- UN	K/NR	Last 30	Davs- L	NK/NR
	Aircraft Type - UNK/NR		K/NR	Last 90	Days- L	NK/NR
		Multi-Eng - UN	K/NR	Rotorcr	aft - L	INK/NR
Instrument Rating(s) - NONE						
ILE ON A VFR FLIGHT TO WHITEMAN AIRPORT THE					AFTER	
SSING WEST OF THE AIRPORT. THE AREA TO THE N						
SCURED BY CLOUDS. THE PILOT INADVERTENTLY EN	TERED INTO A BOX CANYON AN	D COLLIDED WITH THE	TERRAIN	WHEN HE WAS	i	

File No. - 979 1/22/89 LAKE VIEW, CA A/C Reg. No. N26313 Time (Lc1) - 0020 PST

Occurrence #1

IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION

Finding(s)

- 1. TERRAIN CONDITION BOX CANYON
- 2. WEATHER CONDITION CLOUDS
- 3. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 4. ALTITUDE INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADVERTENT FLIGHT INTO A BOX CANYON.

Basic Information	(55.1 AVIATION)				.		
Type Operating Certificate-NONE (GEN	IERAL AVIATION)	Aircraft Da SUBSTANTIA		Fatal	Inje Serious	uries Minor	None
Type of Operation -INSTRUCT:	ONAL	Fire	Crei		0		1
Flight Conducted Under -14 CFR 9	l	NONE	Pass	s 0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - EAA WAG-AERO SPORT			ING 0-290-G			/Activated	
Landing Gear - TAILWHEEL-ALL FIXED			20047710 048811		tall Warn	ing System	- NO
Max Gross Wt - 1474 No. of Seats - 2	Engine ly Rated Po		ROCATING-CARBU	RETUR			
No. or seats - 2	Rated Pol	wer - 12:	D HP				
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEF		rture Point		ON AIR	PORT		
Method - N/A Completeness - N/A	SAME AS Destination	•		Airport D	2+2		
Basic Weather - VMC	LOCAL	· ·		PLACER			
Wind Dir/Speed- 300/007 KTS	EUCAE				Ident	- 23	
Visibility - 50.0 SM	ATC/Airspace	2				- 4200/	75
Lowest Sky/Clouds - 25000 FT			ONE			- ASPHALT	. 0
Lowest Ceiling - NONE	Type of C	learance - No	ONE	Runway	Status	- DRY	
Obstructions to Vision- NONE	Type Apch,		RAFFIC PATTERN				
Precipitation - NONE		TO	DUCH AND GO				
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	A 70				MEDICAL		
Certificate(s)/Rating(s)	Age - 70	Poviou	dical Certifica	ate - VALID	MEDICAL-	WAIVERS/LI	MII
ATP, CFI	Biennial Flight Current	~ VFS	Total -	28937	last	24 Hrs -	1
SE LAND, ME LAND	Months Since	e - 9	Make/Model-	620	last	30 Davs-	4
01 2 3 , 2		oe - V 35B					24
			Multi-Eng -			,-	
Instrument Rating(s) - AIRPLAN	<u> </u>						
Namativa							
Narrative	TO THE DUAL CTUDENT	אחרו זכר דוור מים	AKEE DUDING TU	TOUGUDOUS	DUACE OF	THE	
AIRCRAFT OVERTURNED ON THE RUNWAY AFTE	ER THE DUAL STUDENT A				PHASE UF	IHE	

File No 955	1/28/89	PLACERVILLE, CA	A/C Reg. No. N512PV	Time (Lc1) - 1300 PST
	OVER ING - ROLL			
Finding(s) 1. BRAKES(NORMAL) - IMPR	OPER USE OF -	DUAL STUDENT		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE STUDENT'S IMPROPER APPLICATION OF BRAKES DURING THE TOUCHDOWN/FLARE PHASE OF THE LANDING CAUSING THE AIRCRAFT TO NOSE OVER.

File No 974 4/20/89 STOCK	TON,CA A/C Reg	g. No. N26198	Τi	me (Lc1) -	0508 PDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	AVIATION) Aircraft DESTROYE Fire ON GROUN	ED Crew	Fatal 1 1	Injur Serious O O	ies Minor O O	None O O
Aircraft Information Make/Model - ROBINSON R22 BETA Landing Gear - SKID Max Gross Wt - 2400 No. of Seats - 2	3 7.	DMING 0-320-B2C PROCATING-CARBURE	St TOR	nstalled/Adall Warning	g System -	NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/004 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 20000 FT BROKI Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(BRIGHT)		NONE /	Airport Da Runway Runway Runway	PORT/STRIP ta Ident - Lth/Wid - Surface -	N/A N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE HELICOPTER Instrument Rating(s) - NONE	Age - 31 M Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - R22	Total -	t Time (Ho		Hrs - Days- Days-	IMIT 0 10 30 107
THIS CHIMENT RECTING (S) NOME Narrative AFTER AN EVENING OF SOCIALIZING, THE PLT & PARTICLE AND EVENING OF SOCIALIZING, THE PLT & PARTICLE AND EVENING AT LOW ALTITUDE THEN HIT THE ROOF OF A BUILDING, CRASHED TO THE THE THE THE TOWN TO THE SOUND DRG THE INVESTIGATION. TOXICOLOGY CHECKS HAD BLOOD/ALCOHOL LEVELS OF O.17% & O.11% (GRACOCCAINE/BENZOYLECGONINE LEVELS OF O.19 MG/L.	PER AUTHORIZATION & TOOK OFF E IN AN ERRACTIC MANNER. SUBS HE GROUND & BURNED. NO PREEXI S OF BLOOD & URINE SAMPLES WE AMS%), RESPECTIVELY. A DRUG S	DRG DARKNESS. A SEQUENTLY, IT COLL STING AIRFRAME OR ERE MADE. THE CHEC SCREEN OF FLUID FR	HORT TIME IDED WITH ENGINE MA KS SHOWED OM THE PLT	LATER, THE A POWER LIF LEFUNCTION OF THE PLT & ITSHOWED	NE, WAS	

File No. - 974 4/20/89 STOCKTON, CA A/C Reg. No. N26198 Time (Lcl) - 0508 PDT

Occurrence #1 Phase of Operation

IN FLIGHT COLLISION WITH OBJECT

MANEUVERING

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- PHYSICAL IMPAIRMENT(ALCOHOL) PILOT IN COMMAND
- PHYSICAL IMPAIRMENT(DRUGS) PILOT IN COMMAND
- 4. STOLEN AIRCRAFT/UNAUTHORIZED USE PERFORMED PILOT IN COMMAND
- 5. LIGHT CONDITION NIGHT
- 6. PROPER ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- 7. OBJECT WIRE, TRANSMISSION
- 8. OBJECT BUILDING(NONRESIDENTIAL)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT OF THE PILOT BY FLYING WHILE PHYSICALLY IMPAIRED FROM CONSUMPTION OF ALCOHOL & DRUGS, AND HIS FAILURE TO MAINTAIN PROPER ALTITUDE. THE LIGHT CONDITION (AT NIGHT) AND THE OBSTRUCTIONS (POWER LINES AND BUILDING) WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 987 5/05/89 PORT	SAN LUIS,CA A/C	Reg. No. N6301M	Т	ime (Lc1) -	2015 PDT	
Basic Information Type Operating Certificate-NONE (GENER)		aft Damage		Injuri		
Time of Operation DEDCOMAL			Fatal			
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire			0	0	0
Accident Occurred During -MANEUVERING	NONE	Pass	1	0	0	0
Aircraft Information						
Make/Model - CESSNA 152	Eng Make/Model -	LYCOMING 0-235-L2C	ELT	Installed/Ac	tivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	S	tall Warning	System	- YES
Max Gross Wt - 1600	Engine Type -	RECIPROCATING-CARBUR	ETOR			
No. of Seats - 2	Rated Power -	110 HP				
Environment/Operations Information						
Weather Data	Itinerary		•	Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AI	RPORT/STRIP		
Method - N/A	SAN LUIS OBISPO,	CA				
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - IMC	SANTA BARBARA,CA		SAN LU	IS OBISPO		
Wind Dir/Speed- CALM					N/A	
Visibility - 1.000 SM	ATC/Airspace		,	Lth/Wid -	•	
Lowest Sky/Clouds - UNK/NR	Type of Flight Pla		-	Surface -		
Lowest Ceiling - OBSCURED	Type of Clearance		Runway	Status -	N/A	
Obstructions to Vision- FOG	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - NIGHT(DARK)						
Personnel Information						
Pilot-In-Command	Age - 24 Biennial Flight Review	Medical Certifica			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	pht Time (H			
PRIVATE	Current - YES Months Since - 12	Total - Make/Model-	87	Last 24	Hrs - UN	K/NR
SE LAND	Months Since - 12	Make/Model-	87	Last 30	Days- UN	K/NR
	Aircraft Type - C-15	2 Instrument-	1	Last 90	Days- UN	K/NR
		Multi-Eng -	0	Rotorcra	ıft -	0
Instrument Rating(s) - NONE						
Narrative						
THE PILOT DEPARTED SAN LUIS OBISPO AIRPORT OF AROUND THE COASTAL AREA. ABT 9 MINUTES AFTER OF THE CRASH SITE AND THE ENGINE SOUND ABRUPTRANSMITTER SIGNAL AND INITIATED A SEARCH. THE SCARS AND THE WRECKAGE EXAMINATION DISCLOSED ATTITUDE. THE EXAMINATION FURTHER DISCLOSED IN	DEPARTING SBP GROUND WITN FLY STOPPED. THE PORT SAN HE WRECKAGE WAS FOUND ABOU THE AIRPLANE STRUCK THE U	ESSES HEARD THE AIRP LUIS HARBOR PATROL O T 4 HOURS AFTER THE PWARD SLOPING TERRAI	LANE'S ENG OFFICER THE SEARCH WAS N IN A WIN	INE IN THE V N HEARD AN E INITIATED. IGS & NOSE LE	ICINITY LT GROUND	
ATTIONE. THE EXAMINATION TOWNER DISCUSED I			TONS OR FA			

File No. - 987 5/05/89 PORT SAN LUIS,CA A/C Reg. No. N6301M Time (Lc1) - 2015 PDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER
Phase of Operation MANEUVERING

Finding(s)

1. WEATHER CONDITION - FOG

2. WEATHER EVALUATION - POOR - PILOT IN COMMAND

3. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND

4. VFR PROCEDURES - NOT FOLLOWED - PILOT IN COMMAND

5. VFR FLIGHT INTO IMC - INADVERTENT - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT FAILED TO EXECUTE A 180 DEGREE TURN AND INADVERTENTLY ENTERED INTO INSTRUMENT METEOROLOGICAL CONDITIONS.

----Probable Cause----

File No 932 7/09/89 SANTABasic Information			No. N46207			- 1430 PD1	
Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft D			Inju	uries	
		SUBSTANTI		Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		Fire	Cr		0	. 0	1
Accident Occurred During -LANDING		NONE	Pa	ss 0	0	0	0
Aircraft Information							
Make/Model - RYAN SCW-145	Eng Make/M	Model - WARNE	R 50/SS498	ELT	Installed	/Activated	- YES/YE
Landing Gear - TAILWHEEL-ALL FIXED	Number Eng				Stall Warn	ing System	- NO
Max Gross Wt - 1373			ROCATING-CARB	URETOR			
No. of Seats - 3	Rated Powe	er - 14	5 HP				
Environment/Operations Information							·
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depart			OFF A	IRPORT/STR	I P	
Method - N/A Completeness - N/A	SANTA PAU Destination	JLA,CA		Airport	Do.+o		
Basic Weather - VMC	LOCAL			Airport	Data		
Wind Dir/Speed- 040/012 KTS	LUCAL			Runwa	v Ident	- N/A	
Visibility - 10.0 SM	ATC/Airspace				y Lth/Wid	•	
Lowest Sky/Clouds - N/A		ight Plan - N	IONE		y Surface		
Lowest Ceiling - 1500 FT BROKE	N Type of Cle	earance - N	IONE	Runwa	y Status	- N/A	
Obstructions to Vision- NONE	Type Apch/l	ndg - F	ORCED LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	A CF	Ma		+- WALT	D MEDICAL I		
	Age - 65 Biennial Flight F		edical Certifi	ight Time (WAIVERS/LIN	4T I
PRIVATE				231	Íast í	04 Hrs - UN	JK/NR
SE LAND	Current Months Since	- 5	Make/Model-	33	Last	30 Davs- UN	NK/NR
	Aircraft Type			0	Last	O Days- UN	IK/NR
Instrument Rating(s) - NONE							
Narrative							
TLY AFTER TAKEOFF THE PILOT REPORTED THAT	THE ENGINE BEGAN	TO RUN ROUGE	I. AND SUBSEOU	ENTLY QUIT	AT AN		
MATED ALTITUDE OF 700 FEET AGL. THE PILOT	ELECTED TO LAND	STRAIGHT AHEA	D INSTEAD OF	RETURNING T	O THE		
ORT. THE AIRPLANE LANDED IN ROUGH TERRAIN,							

File No 9	32 7/09/89	SANTA PAULA,CA	A/C Reg. No. N46207	Time (Lcl) - 1430 PDT	
Occurrence #1 Phase of Operation		OWER(TOTAL) - NON-MECHAN L CLIMB	NICAL		
Finding(s) 1. UNDETERMINED				·	·
Occurrence #2 Phase of Operation		NCY			
Occurrence #3 Phase of Operation	ON GROUND COLLIS LANDING - ROLL	ION WITH TERRAIN/WATER			
Finding(s) 2. TERRAIN CONDITION	ON - ROUGH/UNEVEN				
Probable Cause			·		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: TOTAL LOSS OF ENGINE POWER FOR UNDETERMINED REASONS.

File No 802 9/14/89 SANTA F	PAULA,CA A/C	LA,CA A/C Reg. No. N49697			Time (Lc1) - 1357 PDT			
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	SUBST	ft Damage ANTIAL Crew Pass	0	Injuri Serious O O	es Minor O O	None 1 0		
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1675 No. of Seats - 2	Number Engines - Engine Type - R	YCOMING 0-235 1 ECIPROCATING-CARBURI 110 HP	\$	Installed/Ac Stall Warning				
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poin SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	ON AIF Airport [CAMAR] Runway Runway	Data ILLO / Ident - / Lth/Wid - / Surface -		40		
	Age - 28 Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A	Medical Certifica Fligl Total - Make/Model- Instrument- Multi-Eng -	te - VALII nt Time (H 25 25 1 0		Hrs - Days- Days-	0 4 10 0		
Instrument Rating(s) - NONE								
Instrument Rating(s) - NONENarrative THE STUDENT PILOT WAS PRACTICING LANDINGS IN CASTARTED A GO-AROUND, THEN HIS AIRCRAFT ENCOUNTING SUBSEQUENTLY, IT COLLIDED WITH TWO OTHER THIRD AIRCRAFT.	ERED WAKE TURBULENCE FROM	THE OTHER PLANE AN	O ROLLED A	ABRUPTLY TO T	HE			

A/C Reg. No. N49697 File No. - 802 9/14/89 SANTA PAULA,CA Time (Lc1) - 1357 PDT Occurrence #1 VORTEX TURBULENCE ENCOUNTERED Phase of Operation GO-AROUND (VFR) Finding(s) 1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 2. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation GO-AROUND (VFR) Finding(s) 3. OBJECT - AIRCRAFT PARKED 4. OBJECT - AIRPORT FACILITY

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE STUDENT PILOT. CONTRIBUTING FACTORS WERE THE PARKED AIRCRAFT, HANGAR, AND THE STUDENT PILOT'S LACK OF TOTAL EXPERIENCE.

----Probable Cause----

Injuries Fatal Serious Minor Nor 1 0 0 0 0 0 0 0 3 0 0 0 ELT Installed/Activated - YES/ Stall Warning System - NO
1 0 0 0 0 0 0 0 3 0 0 0 ELT Installed/Activated - YES/ Stall Warning System - NO
0 0 0 0 0 3 0 0 0 ELT Installed/Activated - YES, Stall Warning System - NO
3 0 0 0 (
ELT Installed/Activated - YES, Stall Warning System - NO
Stall Warning System - NO
Stall Warning System - NO
OR
Airport Proximity
OFF AIRPORT/STRIP
irport Data
AURORA
Runway Ident - 14
Runway Lth/Wid - 4694/ 40
Runway Surface - ASPHALT
Runway Status - DRY
 VALID MEDICAL-WAIVERS/LIMIT
Time (Hours)
114 Last 24 Hrs - UNK/NR
43 Last 30 Days- 4
113 Last 90 Days- 87
271
t 7

File No 9	41 3/08/89	WATKINS,CO	A/C Reg. No. N3278C	Time (Lcl) - 1455 MST
Occurrence #1 Phase of Operation				
Finding(s) 1. VISUAL LOOKOUT 2. VISUAL LOOKOUT		PILOT IN COMMAND PILOT OF OTHER AIRCRA	AFT	
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WATER ROLLED	2	
Finding(s) 3. TERRAIN CONDITI	ON - OPEN FIELD			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF BOTH PILOT'S TO MAINTAIN VISUAL LOOKOUT.

Make/Model	
DESTROYED	
Flight Conducted Under	None
Accident Occurred During	0
Aircraft Information Make/Model - CESSNA 172K Landing Gear - TRICYCLE-FIXED Number Engines - 1 Max Gross Wt - 2300 No. of Seats - 4 Rated Power - 150 HP Environment/Operations Information Weather Data WEATHER DATA WEATHER DATA WIND DIFFORMER OF AIRPORT/STRIP Method - N/A Basic Weather - VMC Wind Dif/Speed - 160/008 KTS Visibility - 70.0 SM Visibility - 70.0 SM Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Destination Destructions to Vision NONE Precipitation Destructions to Vision NONE Precipitation Condition of Light - DAYLIGHT Personnel Information Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE Current - YES FLAND NONE Instrument Rating(s) - NONE NONE NONE NONE NONE None None None Correct - 7 Make/Model - LYCOMING 0-320-E2D ELT Installed/Activated Stall Warning System Stall Proximity Stal	0
Make/Model - CESSNA 172K	0
Landing Gear - TRICYCLE-FIXED	
Max Gross Wt - 2300 No. of Seats - 4 Rated Power - 150 HP Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Basic Weather - VMC Wind Dir/Speed - 160/008 KTS Visibility - 70.0 SM Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Lowest Sky/Clouds - NONE Destructions to Vision - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE_LAND Max Gross Wt - 2300 Rated Power - 150 HP Itinerary Last Departure Point Akron, CD WARKINS, CO WARKINS, C	
No. of Seats - 4 Rated Power - 150 HP	n - YES
Environment/Operations Information Weather Data	
Weather Data	
Wx Briefing - NO RECORD OF BRIEFING AKRON,CO Method - N/A AKRON,CO Completeness - N/A Destination Airport Data Basic Weather - VMC WATKINS,CO AURORA Wind Dir/Speed - 160/008 KTS ATC/Airspace Runway Ident - 14 Visibility - 70.0 SM ATC/Airspace Runway Surface - ASPHALT Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - Months Since - 7 Make/Model - UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument O Last 90 Days-	
Method - N/A AKRON,CO Completeness - N/A Destination Airport Data Basic Weather - VMC WATKINS,CO AURORA Wind Dir/Speed- 160/008 KTS Runway Ident - 14 Visibility - 70.0 SM ATC/Airspace Runway Lth/Wid - 4694/ Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument O Last 90 Days-	
Completeness - N/A Destination Airport Data Basic Weather - VMC WATKINS,CO AURORA Wind Dir/Speed- 160/008 KTS Runway Ident - 14 Visibility - 70.0 SM ATC/Airspace Runway Lth/Wid - 4694/ Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- O Last 90 Days- Instrument Rating(s) - NONE	
Basic Weather - VMC WATKINS,CO AURORA Wind Dir/Speed- 160/008 KTS Runway Ident - 14 Visibility - 70.0 SM ATC/Airspace Runway Surface - ASPHALT Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument O Last 90 Days- Instrument Rating(s) - NONE	
Wind Dir/Speed- 160/008 KTS Visibility - 70.0 SM ATC/Airspace Runway Ident - 14 Visibility - 70.0 SM ATC/Airspace Runway Lth/Wid - 4694/ Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument O Last 90 Days-	
Visibility - 70.0 SM ATC/Airspace Runway Lth/Wid - 4694/ Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision - NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument O Last 90 Days- Instrument Rating(s) - NONE	
Lowest Sky/Clouds - 6000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision-NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model-UNK/NR Last 30 Days-Aircraft Type - C-172K Instrument - 0 Last 90 Days- Instrument Rating(s) - NONE	
Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- O Last 90 Days- Instrument Rating(s) - NONE	
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument - 0 Last 90 Days- Instrument Rating(s) - NONE PARTATive	1
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- O Last 90 Days- Instrument Rating(s) - NONE Parrative	
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE	
Personnel Information Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE	
Pilot-In-Command Age - 37 Medical Certificate - VALID MEDICAL-NO WAIVERS Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 914 Last 24 Hrs - SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE Narrative	
SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days- Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE	C/LIMIT
SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days-Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE	3/ LIMII
SE_LAND Months Since - 7 Make/Model- UNK/NR Last 30 Days-Aircraft Type - C-172K Instrument- 0 Last 90 Days- Instrument Rating(s) - NONE	4
Instrument Rating(s) - NONE	3
Instrument Rating(s) - NONE	61
·Narrative	01
78C, A WESTBOUND QUICKIE Q2, AND N7392G, A NORTHBOUND CESSNA 172K, COLLIDED IN MIDAIR AT RELATIVELY LOW ALT.	
PREVAILED. THERE WAS NO EVIDENCE THAT EITHER PLT TOOK EVASIVE ACTION PRIOR TO THE COLLISION.	

File No. - 941 3/08/89 WATKINS, CO A/C Reg. No. N7392G Time (Lcl) - 1455 MST Occurrence #1 MIDAIR COLLISION Phase of Operation CRUISE - NORMAL Finding(s) 1. VISUAL LOOKOUT - NOT MAINTAINED - PILOT IN COMMAND 2. VISUAL LOOKOUT - NOT MAINTAINED - PILOT OF OTHER AIRCRAFT IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation DESCENT - UNCONTROLLED Finding(s) 3. TERRAIN CONDITION - OPEN FIELD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF BOTH PILOT'S TO MAINTAIN VISUAL LOOKOUT.

File No 906 4/09/89 ASPEN	,CO A/C Re	eg. No. N6812R	Time (Lcl)	- 1636 MDT
Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircraf DESTRO' Fire ON GROU	Crew	Inj Fatal Serious 1 O O O	uries Minor None O O O O
Aircraft Information Make/Model - CESSNA T210F Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6	Eng Make/Model - COI Number Engines - 1 Engine Type - REG Rated Power -	NTINENTAL TSIO-520-0 CIP-FUEL INJECTED 285 HP		/Activated - YES/NO ing System - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/020 KTS Visibility - 20.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 6000 FT BROK Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		- NONE	Airport Proximity OFF AIRPORT/STR irport Data PITKIN COUNTY Runway Ident Runway Lth/Wid Runway Surface Runway Status	IP - 33 - 7003/ 100
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 58 Biennial Flight Review Current - YES Months Since - 14 Aircraft Type - UNK/NR	Total - Make/Model- UNK	Time (Hours) 400 Last: /NR Last:	NO WAIVERS/LIMIT 24 Hrs - UNK/NR 30 Days- UNK/NR 90 Days- UNK/NR
Instrument Rating(s) - NONE				
Narrative THE PLT WAS RETURNING TO ASPEN AFTER A FLT OF 33 AND REPORTED THE ENGINE HAD FAILED. THE PL A POST CRASH FIRE DESTROYED THE AIRPLANE. THE OPERATION. THE WIND AT THE TIME OF THE ACCIDE WITNESSES NEAR THE ACCIDENT SITE STATED THAT	T ATTEMPTED TO GLIDE TO THE ENGINE WAS OPERATIONALLY T NT WAS BLOWING FROM THE NOR	RWY BUT CRASHED ABO ESTED AND FOUND TO E THWEST AT 20 KTS WIT	OUT 1 MILE SOUTHEA SE CAPABLE OF NORM	ST. AL

File No. - 906 4/09/89 ASPEN,CO A/C Reg. No. N6812R Time (Lcl) - 1636 MDT

Occurrence #1 LOSS OF ENGINE POWER

Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL

Finding(s)

- 1. POWERPLANT FAILURE, TOTAL
- 2. UNDETERMINED
- 3. WEATHER CONDITION HIGH WIND
- 4. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 5. WIND INFORMATION MISJUDGED PILOT IN COMMAND
- 6. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 7. STALL INADVERTENT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE ENGINE FALURE DUE TO UNDETERMINED REASONS AND THE PILOT'S MISJUDGEMENT OF THE WIND CONDITIONS WHICH RESULTED IN THE ATTEMPT TO GLIDE TO THE RUNWAY. THE PILOT ALSO FAILED TO MAINTAIN ADEQUATE AIRSPEED DURING THE GLIDE WHICH RESULTED IN A STALL.

File No 845 5/17/89 COLORA	ADO SPGS,CO A/C Reg	. No. N624H	Time (Lcl) - 1240 M DT
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -OTHER WORK US Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI	SUBSTANT		In Fatal Seriou: O O O O	juries s Minor None O 1 1 O
Aircraft Information Make/Model - ENSTROM 280C Landing Gear - SKID Max Gross Wt - 2150 No. of Seats - 3		MING HIO-360-E1AD P-FUEL INJECTED 05 HP		d/Activated - YES/NO ning System - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/010 KTS Visibility - 60.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 4800 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg -	NONE NONE	Airport Proximity ON AIRPORT Airport Data COLORADO SPRING Runway Ident Runway Lth/Wid Runway Surface Runway Status	GS - 17 - 11021/ 150 - ASPHALT
Personnel Information Pilot-In-Command	Age - 46 M Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - PA-31T	Total - A Make/Model- Instrument-	t Time (Hours) 4300 Last 150 Last 170 Last	-NO WAIVERS/LIMIT 24 Hrs - UNK/NR 30 Days- UNK/NR 90 Days- 188 rcraft - 40
Instrument Rating(s) - AIRPLANE, HELENarrative AFTER RETURNING FROM A LOCAL PHOTO FLT, THE PL THEN CLEARED TO CROSS THE RWY & PROCEED (SOUTH A CLIMB, HE NOTICED WHAT HE BELIEVED WAS A PAR TOUCHED DOWN WITH FORWARD SPEED & SLID TO A ST BLADES. A POST ACDNT ENG RUN WAS MADE, BUT NO 340 DEG AT 10 KTS. THE PLT RPRTD THE WIND WAS	T MADE AN APCH TO A HOVER LA H-SOUTHEAST) TO THE INTENDED RTIAL POWER LOSS & HE INITIAT TOP, THEN ROCKED BACKWARD & T REASON WAS FOUND FOR THE RPF	PARKING AREA. AS I ED A HOVERING AUTO O THE LEFT, DAMAG TD POWER LOSS. TH	HE STARTED FORWARI DROTATION. THE HE ING THE MAIN & TA E PREVAILING WIND	O & BEGAN LICOPTER IL ROTOR WAS FROM

File No. - 845 5/17/89 COLORADO SPGS,CO A/C Reg. No. N624H Time (Lcl) - 1240 MDT Occurrence #1 MISCELLANEOUS/OTHER Phase of Operation TAXI - AERIAL Finding(s) 1. WEATHER CONDITION - HIGH DENSITY ALTITUDE 2. WEATHER CONDITION - CROSSWIND 3. WEATHER CONDITION - TAILWIND 4. WEATHER CONDITION - GUSTS 5. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAXI - AERIAL Finding(s) 6. AUTOROTATION - ATTEMPTED -Occurrence #3 ROLL OVER Phase of Operation TAXI - AERIAL ______

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR THE WIND CONDITIONS BY THE PILOT. THE HIGH DENSITY ALTITUDE AND WIND CONDITIONS WERE CONTRIBUTING FACTORS.

----Probable Cause----

File No 862 5/27/89 FORT	COLLINS, CO A/C	Reg. No. N17184	Т	ime (Lcl) -	2315 MD	Т
Type of OperationPERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		ft Damage ANTIAL Crew Pass	-	Injur Serious O O		None O 1
Aircraft Information Make/Model - CESSNA 177B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2500 No. of Seats - 4	Number Engines - Engine Type - R	YCOMING 0-360-A1F60 1 ECIPROCATING-CARBUR 180 HP	S	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 12.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Poir SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg	- NONE - NONE	ON AIR Airport D FT COL Runway Runway Runway	ata LINS/LOVELA	33 6504/ ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - AIRPLANENarrative	Age - 22 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - C-172	Total - Make/Model-	ght Time (H 215 19		Hrs - L Days- L	NK/NR NK/NR
THE PLT RPRTD THAT DRG THE INITIAL CLIMB AFTE POWER. HE MADE AN EMERGENCY LANDING IN AN ARE LANDING, THE GEAR COLLAPSED. A POST-ACONT EXA TO EXPLAIN THE RPRTD POWER LOSS.	A WHERE THE RWY WAS BEING	EXTENDED AN ADDITIO	NAL 2000 F	T. WHILE		

File No 86	52 5/27/89 FORT COLLINS,CO	A/C Reg. No. N17184	Time (Lc1) - 2315 MDT
	LOSS OF ENGINE POWER TAKEOFF - INITIAL CLIMB		
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY	·	
Occurrence #3 Phase of Operation	IN FLIGHT COLLISION WITH TERRAIN/WATER		
Finding(s) 2. LIGHT CONDITION 3. TERRAIN CONDITIO			
	COMPLETE GEAR COLLAPSED LANDING	·································	· · · · · · · · · · · · · · · · · · ·
Finding(s) 4. LANDING GEAR - (OVERLOAD		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. THE DARK NIGHT AND TERRAIN CONDITION WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

----Probable Cause----

File No 861 5/29/89 RANGEL	Y,CO	A/C Reg. No. N8065D		Time (Lcl) - 1300 M			-
Basic Information Type Operating Certificate-NONE (GENERAL		rcraft Damage UBSTANTIAL		Fatal	Inju Serious	uries Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI	Fi	re ONE	Crew Pass	0	0	0	1
Aircraft Information							
Make/Model - PIPER PA-22-150 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1840 No. of Seats - 4	Eng Make/Model Number Engines Engine Type Rated Power			S		Activated ing System	
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/030 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 15000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Clearan Type Apch/Lndg Age - 44 Biennial Flight Revie Current - N	NC Plan - NONE ce - NONE - NONE Medical w O Tot	al -	ON AIR Airport D RANGEL Runway Runway Runway Runway **The Companies of the Companies of th	ata Y Ident Lth/Wid Surface Status	- ASPHALT - DRY 	75
SE LAND	Months Since - 2 Aircraft Type - P	A-22 Ins	e/Model- trument- ti-Eng -	190 25 0		30 Days- 30 Days-	2 2
Instrument Rating(s) - NONE							
-Narrative PLT RPRTD HE WAS MAKING A LEFT TURN ONTO F RWY. AS THE RIGHT (DOWNWIND) WHEEL DROPPED FACTED THE GROUND & THE ACFT WENT OVER TO A S WAS HIS 1ST FLT AFTER A WING LIFT MODIFIC BEEN IN THE SHOP FOR ABOUT 90 DAYS & HE HA FAMILIAR WITH THE NEW HANDLING CHARACTERIS	OFF THE PAVEMENT, TH N INVERTED POSITION. ATION (TO EXTEND THE D LOST "THE EDGE" FRO	E LEFT WING L THE PLT ESTD WING TIPS) HA	IFTED, THEN THE WIND WA D BEEN INS	N THE PROP AS FROM 22 TALLED. HE	& RIGHT W O DEG AT 3 STATED TH	VING TIP BO KTS. HE ACFT	

5/29/89 A/C Reg. No. N8065D Time (Lcl) - 1300 MDT File No. - 861 RANGELY.CO

Occurrence #1 LOSS OF CONTROL - ON GROUND

Phase of Operation TAXI - TO TAKEOFF

Finding(s)

- 1. WEATHER CONDITION HIGH WIND
- 2. WEATHER CONDITION GUSTS
- 3. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 4. COMPENSATION FOR WIND CONDITIONS NOT ATTAINED -
- 5. LACK OF RECENT EXPERIENCE - PILOT IN COMMAND
- LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND 6.

Occurrence #2

----Probable Cause----

NOSE OVER

Phase of Operation TAXI - TO TAKEOFF

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. THE HIGH WIND, GUSTS, THE PILOT'S LACK OF RECENT EXPERIENCE, AND HIS LACK OF FAMILIARITY WITH THE AIRCRAFT'S NEW HANDLING CHARACTERISTICS WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

Aircraft DESTROY Fire ON GROU	ED Crew		Injur Serious O O		None O O
Fire	Crew	1	0	0	0
			-	-	_
ON GROU	ND Pass	1	0	0	0
					•
ke/Model - CON	TINENTAL IO-470-\	ELT I	nstalled/Ad	ctivated	- YES/YES
Engines - 2		Sta	all Warning	g System	- YES
Type - REC	IP-FUEL INJECTED			-	
Power -	260 HP				
,		Airport P	roximity		
parture Point		OFF AIR	PORT/STRIP		
·		Airport Da	ta		
		•			
•		Runwa∨	Ident -	N/A	
ace				N/A	
	NONE				
				•	
,3					
	Medical Certifica	ate - VALID	MEDICAL-NO	WAIVERS	/LIMIT
ht Review	Flig	ght Time (Ho	urs)		
- YES	Total -	1042	Last 24	Hrs - L	NK/NR
nce - 21	Make/Model-	322	Last 30	Days- L	INK/NR
Type - C-310	Instrument-	276	Last 90	Days-	32
7.	Multi-Eng -	342			
	PEngines - 2 Proper - REC Power - Powe	PEngines - 2 Prype - RECIP-FUEL INJECTED Power - 260 HP Power - 26	Rengines - 2 Retarrance - 2 Retarrance - None - Non	Rengines - 2 Retarry - Reciperite Injected Power - 260 HP Reparture Point Reparture Poin	Stall Warning System Type - RECIP-FUEL INJECTED Power - 260 HP Airport Proximity OFF AIRPORT/STRIP A SPRINGS, CO Airport Data A,NE Runway Ident - N/A Runway Lth/Wid - N/A F Flight Plan - NONE F Clearance - NONE COMPANDE Medical Certificate - VALID MEDICAL-NO WAIVERS Flight Review - YES Total - 1042 Type - C-310 Instrument - 276 Last 30 Days - U Type - C-310 Airport Proximity OFF AIRPORT/STRIP Airport Proximity

File No. - 824

6/29/89

CRESTONE, CO

A/C Reg. No. N7509Q

Time (Lcl) - UNK/NR

Occurrence #1

IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation

CLIMB

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 3. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 4. TERRAIN CONDITION BOX CANYON
- 5. PROPER ALTITUDE NOT ATTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE PILOT AND HIS FAILURE TO ATTAIN SUFFICIENT ALTITUDE TO SAFELY CLEAR THE MOUNTAINS. CONTRIBUTING FACTORS WERE: MOUNTAINOUS TERRAIN, BOX CANYON, AND HIGH DENSITY ALTITUDE.

File No 876 7/08/89 LOUISV	LLE,CO	A/C Reg.	No. N6342G	Т	ime (Lcl)	- 1905 MDT	
Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION) A	lircraft D		Fatal		ries Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	F	ire NONE	Crew Pass	2	0 0	0	0 0
Aircraft Information Make/Model - CESSNA 150K Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Eng Make/Mode Number Engine Engine Type Rated Power	es - 1 - RECIP	NENTAL O-200-A ROCATING-CARBURI O HP	5	Installed/ Stall Warni		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 300/014 KTS Visibility - 70.0 SM Lowest Sky/Clouds - 12000 FT SCATTI Lowest Ceiling - 14000 FT BROKET Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure BROOMFIELD,O Destination LOCAL ATC/Airspace ERED Type of Flight Type of Cleara Type Apch/Lndo	CO t Plan - N ance - N		UNK/NR Airport D UEFFCO Runway Runway Runway	Data D Ident Lth/Wid Surface	- N/A - N/A - N/A - N/A	
	Age - 30 Biennial Flight Rev Current - Months Since -	iew YES	dical Certifica Fligl Total - Make/Model-	nt Time (F 316	Hours) Last 2	MAIVERS/LIM 24 Hrs - 30 Days-	IT O 16
	Aircraft Type -	C-172RG		50 13	Last 9	00 Days-	17
Instrument Rating(s) - AIRPLANE							
THE INSTRUCTOR PLT (CFI) HAD NOT FLOWN A CESSN CERTIFICATE. THE STUDENT PLT HAD 9 HRS OF DUAL WX WAS IN PART: 12,000' SCT, 14,000' BKN, VISTSTM ACTIVITY IN THE AREA. AFTER DEPG BJC, THE WAS THEN ABORTED. NO ENG PROBLEM WAS NOTED BY DSCNDG ON A NORTHERLY HDG. IT CRASHED BYD THE MALFUNCTION OF THE ACFT OR ENG WAS FOUND. THER STAPLETON INTL ARPT, MICROBURST ACTIVITY WAS RABOUT 9500'.	FLT TIME. THEY DEPO 70 MI, WND 300 DEG A ACFT WAS SEEN ON AN WITNESSES; THEY LAST CREST ON DSCNDG TRAN E WAS EVIDENCE THE A	D JEFFCO A AT 14 GSTG N APPARENT I SAW THE N & WAS EX ACFT HAD E	RPT (BJC) AT 18: 33 KTS, TEMP 9: APCH TO A LARGI ACFT AS IT PASSI TENSIVELY DMGD. NCTRD MICROBURS	55 MDT. AT 7 DEG, VIF E EMPTY PA ED OVER TH NO PREIMF T ACTIVITY	T 1900 MDT, RGA IN ALL ARKING LOT; HE CREST OF PACT PART F (. APRX 15	THE BJC QUADS & THE APCH A HILL, FAILURE OR MI SE AT	

File No. - 876 7/08/89 LOUISVILLE.CO A/C Reg. No. N6342G Time (Lc1) - 1905 MDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation MANEUVERING Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND(CFI) 2. WEATHER CONDITION - HIGH WIND 3. WEATHER CONDITION - MOUNTAIN WAVE 4. WEATHER CONDITION - GUSTS 5. WEATHER CONDITION - HIGH DENSITY ALTITUDE 6. WEATHER CONDITION - WINDSHEAR 7. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 8. FLIGHT INTO KNOWN ADVERSE WEATHER 9. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND(CFI) Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SUPERVISION BY THE INSTRUCTOR PILOT (CFI) AND FLIGHT IN KNOWN ADVERSE WEATHER CONDITIONS. FACTORS RELATED TO THE ACCIDENT WERE: INADEQUATE PREFLIGHT PLANNING/PREPARATION BY THE CFI, HIS LACK OF EXPERIENCE IN THE TYPE OF OPERATION, AND THE WEATHER CONDITIONS.

File No 831 7/17/89 HASWE	LL,C0 A/C Reg. No. N57622			۱۱ 	ime (LCI)	- 0700 MD	
 -Basic Information Type Operating Certificate-AGRICULTURAL 	AIRCRAFT Ai	rcraft Damage			Inju	ıries	
		ESTROYED		Fatal			None
Type of Operation -AERIAL APPLI			Crew		0	1	0
Flight Conducted Under -14 CFR 137	N	ONE	Pass	0	0	0	0
Accident Occurred During -MANEUVERING							
-Aircraft Information							
Make/Model - PIPER PA-36		- LYCOMING IO-7				'Activated	
Landing Gear - TAILWHEEL-ALL FIXED				St	all Warn	ing System	- YES
Max Gross Wt - 3800		- RECIP-FUEL IN	JECTED				
No. of Seats - 1	Rated Power	- 400 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport F	roximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure			OFF AIR	RPORT/STR	P	
Completeness - N/A	LAS ANIMAS,CO Destination			Airport Da	.+-		
Basic Weather - VMC	LOCAL			A Inpont Da	ila		
Wind Dir/Speed- 230/008 KTS	EUCAL			Runway	Ident	- N/Δ	
Visibility - 4.000 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - CLEAR	Type of Flight	Plan - NONE			Surface		
Lowest Ceiling - NONE	Type of Clearan				Status		
Obstructions to Vision- GROUND FOG	Type Apch/Lndg	- NONE					
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 39 Biennial Flight Revie	Medical Ce				NO WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Revie	W		ht Time (Ho			
COMMERCIAL	Current - Y	ES Total	-	5317	Last 2	24 Hrs -	5
SE LAND, ME LAND	Months Since - Aircraft Type - P.	7 Make/M	ode1-	2578 68	Last	30 Days-	75
	Aircraft Type - P.	A-44 Instru	ment- Eng -	68	Last	30 Days-	200
		Multi-	Eng -	73			
Instrument Rating(s) - AIRPLANE							
-Narrative							
THE PILOT WAS MAKING A SWATH RUN NEAR A MA							
UT 95 FT TO THE SIDE OF THE POWER LINE. TH			E ACFI	CKASHED. IF	1E PLI RPI	KID IHAI	
THE UNMARKED GUY WIRE HAD BEEN MORE VISIBL	E, THE ACDINI WOULD NOT	HAVE UCCURRED.					

File No. - 831 7/17/89 HASWELL,CO A/C Reg. No. N57622 Time (Lc1) - 0700 MDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

2. OBJECT - GUY WIRE

3. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

4. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND

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

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE VISUAL LOOKOUT BY THE PILOT (FAILED TO SEE & AVOID) WHICH RESULTED IN HIS FAILURE TO MAINTAIN CLEARANCE FROM THE OBSTRUCTION. CONTRIBUTING FACTORS WERE: THE UNMARKED GUY WIRE & THE PILOT'S LACK OF VISUAL CUES (VISUAL PERCEPTION).

Basic Information Type Operating Certificate-NONE (GENERA)	L AVIATION) Aircra	aft Damage			Injur	ries	
·,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TANTIAL		Fatal	Serious		None
Type of Operation -PERSONAL	Fire		Crew		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE		Pass	0	0	0	0
Aircraft Information	Fig. 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10	CONTINUENTAL			T		V=0 /V
Make/Model - CESSNA 185 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - (Number Engines -		10-470		Installed// tall Warnin		
Max Gross Wt - 3200		RECIP-FUEL IN	NUECTED	3	tari wariin	ig system	- 163
No. of Seats - 4	Rated Power -						
Environment/Operations Information	7.1.1						
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poir	a+		Airport ON AIR	Proximity		
Method - N/A	SAME AS ACC/INC	10		UN AIR	PURI		
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	LOCAL			LA PLA	TA COUNTY		
Wind Dir/Speed- 290/004 KTS	. — - /					- 02	
Visibility - 15.0 SM Lowest Sky/Clouds - 10000 FT SCAT	ATC/Airspace	- NONE			Lth/Wid		150
Lowest Ceiling - NONE	TERED Type of Flight Plar Type of Clearance				Surface · Status ·		
Obstructions to Vision- NONE	Type Apch/Lndg) G0	Ranway	Status	DKT	
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 58	Medical Co	ertifica	te - VALID	MEDICAL-NO	n WATVERS.	/I TMTT
Certificate(s)/Rating(s)	Biennial Flight Review			ht Time (H		, waltens,	L 11111
PRIVATE	Current - YES		-		Ĺast 24		1
SE LAND	Months Since - 10 Aircraft Type - C-150	Make/N	Model-	600	Last 30 Last 90	Days-	1
	Aircraft Type - C-150						29
		Multi	-Eng -	O	Rotorci	raft -	0
Instrument Rating(s) - NONE							
Varrative							
PLT WAS PRACTICING TOUCH-&-GO LANDINGS ON	RWY 2. HE RPRTD THAT THE	WIND SOCK WA	AS INDIC	ATING A ST	RONG X-WING)	
	Y WAS 20 KTS. DURING THE L						

File No. - 889 8/06/89 DURANGO,CO A/C Reg. No. N9823X Time (Lcl) - 1410 MDT

Occurrence #1 LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. WEATHER CONDITION CROSSWIND
- 3. WEATHER CONDITION GUSTS
- 4. DIRECTIONAL CONTROL NOT POSSIBLE -
- 5. GROUND LOOP/SWERVE UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. THE WIND CONDITION WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

Basic Information						
Type Operating Certificate-NONE (G		aft Damage		Injur		
		STANTIAL	Fatal			None
Type of Operation -INSTRUCT				0	0	1
Flight Conducted Under -14 CFR 9		Pass	6 0	0	0	0
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 152		LYCOMING 0-235-L2C		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			tall Warnin	g System	- YES
Max Gross Wt - 1675	5 71	RECIPROCATING-CARBU	RETOR			
No. of Seats - 2	Rated Power -	110 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - MILITARY	Last Departure Poi	int	ON AIR	PORT		
Method - UNK/NR	SAME AS ACC/INC					
Completeness - UNK/NR	Destination		Airport D			
Basic Weather - VMC	LOCAL		DOVER			
Wind Dir/Speed- 290/013 KTS					19	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Pla			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 20	Medical Certific			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ght Time (H			
STUDENT	Current - N/A		11	Last 24 Last 30 Last 90	Hrs - UN	IK/NR
	Months Since - N/A	Make/Model-	11	Last 30	Days- UN	IK/NR
	Aircraft Type - N/A	Instrument-	-			
	All Clait Type 14/A					
	All Grant Type 14, A	Multi-Eng -	O	KO LOI CI	aft -	0

File No. - 837 6/04/89 DOVER AFB, DE A/C Reg. No. N69271 Time (Lcl) - 1108 EDT Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. FLARE - IMPROPER - PILOT IN COMMAND 3. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND 4. GO-AROUND - DELAYED - PILOT IN COMMAND 5. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 6. PORPOISE - UNCONTROLLED -7. DIRECTIONAL CONTROL - NOT MAINTAINED -8. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 9. TERRAIN CONDITION - DITCH Occurrence #4 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER FLARE, IMPROPER RECOVERY FROM A BOUNCED LANDING, AND HIS DELAY IN INITIATING A GO-AROUND, WHICH RESULTED IN AN UNCONTROLLED PORPOISE, LOSS OF DIRECTIONAL CONTROL, AND AN UNCONTROLLED GROUND SWERVE. HIS LACK OF EXPERIENCE. A CROSSWIND, AND THE DITCH WERE CONTRIBUTING FACTORS.

Type Operating Certificate-NONE (GENERA		ircraft Damage				uries	
Type of Operation -INSTRUCTIONA		SUBSTANTIAL ire	Crew	Fatal O	Serious O		None O
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0		0
Accident Occurred During -DESCENT	·			•		-	· ·
-Aircraft Information							
Make/Model - CESSNA 152		- LYCOMING 0-2				/Activated	
Landing Gear - TRICYCLE-FIXED	Number Engines				all Warn	ing System	- YES
Max Gross Wt - 1670		- RECIPROCATING	a-CARBURE	TOR			
No. of Seats - 2	Rated Power	- 110 HP					
-Environment/Operations Information	***						
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure	Doint		Airport F			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	HOLLYWOOD.FL	POINT		UN AIR	ORI		•
Completeness - N/A	Destination			Airport Da	nta		
Basic Weather - VMC	LOCAL			•	E COUNTY	INTL	
Wind Dir/Speed- 240/012 KTS					Ident	- 27	
Visibility - 6.0 SM	ATC/Airspace			Runway	Lth/Wid	- 5000/	150
Lowest Sky/Clouds - 2500 FT SCAT	TERED Type of Flight	Plan - NONE		Runway	Surface	- ASPHALT	
Lowest Ceiling - 4000 FT BROK				Runway	Status	- DRY	
	Type Apch/Lndg						
Precipitation - NONE Condition of Light - DAYLIGHT		FULL STOR	,				
-Personnel Information Pilot-In-Command	Age - 62	Medical Co	ertificat	e - VALID	MEDICAL -	WATVERS/LT	MTT
Certificate(s)/Rating(s)	Biennial Flight Revie			t Time (Ho			
STUDENT	Current - N		-	69	Last:	24 Hrs -	2
	Months Since - N	N/A Make/I	Model-	69	Last	30 Days-	34
	Aircraft Type - N	N/A Instru	ument-	3	Last	90 Days-	66
Instrument Rating(s) - NONE							
APANESE NATIONAL/STUDENT PLT BECAME LOST C							
SONNEL ATTEMPTED TO IDENTIFY THE ACFT ON R							
W OVER AN ARPT, THEN SHE ENTERED THE TRAFF							
W OVER AN ARPT, THEN SHE ENTERED THE TRAFF I AHEAD ON A SHORT FINAL APCH. SHE MADE A	360 DEG TURN THEN CONT	TD THE APCH. AFT	ER ATTEMP	TING TO LA	AND BEHIN	O THE	
VOVER AN ARPT, THEN SHE ENTERED THE TRAFF	360 DEG TURN THEN CONT RED A STEEP DESCENT & (TD THE APCH. AFTI CRASHED AT MIDFII	ER ATTEMP ELD, ABOU	TING TO LA	ND BEHIN	O THE HE RWY.	

File No. - 840 5/24/89 FORT PIERCE.FL A/C Reg. No. N714UQ Time (Lcl) - 1309 EDT

Occurrence #1

MISCELLANEOUS/OTHER

Phase of Operation MANEUVERING

Finding(s)

1. WEATHER CONDITION - HAZE/SMOKE

- 2. BECAME LOST/DISORIENTED INADVERTENT PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. COMMUNICATIONS/INFORMATION/ATC NOT UNDERSTOOD PILOT IN COMMAND

Occurrence #2

LOSS OF CONTROL - IN FLIGHT

Phase of Operation GO-AROUND (VFR)

Finding(s)

- 5. FLIGHT TO ALTERNATE DESTINATION PERFORMED PILOT IN COMMAND
- 6. PLANNED APPROACH POOR PILOT IN COMMAND
- 7. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 8. STALL INADVERTENT PILOT IN COMMAND

Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE STUDENT PILOT TO MAINTAIN AIRSPEED WHICH RESULTED IN AN INADVERTENT STALL. CONTRIBUTING FACTORS WERE: THE WEATHER CONDITIONS (SMOKE & HAZE), THE STUDENT BECOMING LOST, HER LACK OF TOTAL EXPERIENCE, AND HER INABILITY TO UNDERSTAND ATC INSTRUCTIONS AFTER SHE BECAME LOST.

Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraf	t Damage		Injur	vies	
Type operating certificate-none (Gener	DESTRO		Fatal	•		None
Type of Operation -PERSONAL	Fire	Cre		0	0	0
Flight Conducted Under -14 CFR 91	. ON GRO	OUND Pass	s 0	0	0	0
Accident Occurred During -DESCENT						
Aircraft Information						
Make/Model - BRYAN ZENITH CH-300	Eng Make/Model - L			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500	Number Engines - 1 Engine Type - RE			tall Warnir	ng System	- NO
No. of Seats - 2	Rated Power -		RETUR			
		150 11				
-Environment/Operations Information Weather Data	Itinerary		Ainnant	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN			ON AIR			
Method - N/A	SAME AS ACC/INC	•	014 7121			
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		RUCKEL			
Wind Dir/Speed- 260/007 KTS					18	
Visibility - 7.0 SM	ATC/Airspace	NONE		Lth/Wid -		75
Lowest Sky/Clouds - 2000 FT SCA Lowest Ceiling - NONE	TTERED Type of Flight Plan Type of Clearance			Surface - Status -	UNK/NR UNK/NR	
Obstructions to Vision- NONE		- NONE	Kuriway	Status	UNK/ NK	
Precipitation - NONE	Type Apeny Endg	NONE				
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 60	Medical Certifica	ate - VALIC	MEDÍCAL-NO) WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Review Current - UNK/NF		ght Time (F	•		0
SE LAND	Months Since - UNK/NF	Make/Model-		Last 24 Last 30		0
SE LAND	Aircraft Type - UNK/NF	? Instrument-	973	last 90	Days Days-	0
	5. 2. 2 1 7 7 5	The Crameric	Ŭ	2451 50		Ŭ
Instrument Rating(s) - NONE						
Namatina						
:Narrative DT SUFFERED HEART ATTACK SHORTLY AFTER DE	DADTIDE DESILITING IN LITE THE	CADACITATION THE	ATDDIANE TE	IEN DESCENDE	: n	
I JOILENED HEART ATTACK SHURTET AFTER DE	I YVIOUT VEDOCITING TH UTD THE	MI ACTIALIUN. INC.	JIVI LANE IL	ILIA DESCEINDE	. •	

File No 9	05 5/26/89	NICEVILLE,FL	A/C Reg. No. N8OWB	Time (Lcl) - 1539 CDT
Occurrence #1 Phase of Operation	LOSS OF CONTROL CLIMB	- IN FLIGHT		
Finding(s) 1. INCAPACITAT	ION(HEART ATTACK)	- PILOT IN COMMAND		
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WATER ROLLED		
Finding(s) 2. OBJECT - TREE(S)			
Probable Cause	 			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOTS INCAPACITATION BY A HEART ATTACK RESULTING IN THE AIRPLANE DESCENDING OUT OF CONTROL AND COLLIDING WITH TREES.

File No 900 5/27/89 BIG P	INE KEY,FL	A/C Reg.	No. N3201U		Time (Lc1)	- 0228 EDT	
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft D	_	Fatal	_	uries Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Fire UNK/NR	Cr	ew 1	0	0	0
Aircraft Information Make/Model - MOONEY M20J	Fng Make/N	Model - LYCOM	IING IO-360-A3	B6D FLT	Installed	Activated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2740 No. of Seats - 4		gines - 1 be - RECIP	FUEL INJECTE	D	Stall Warn	ing System	- YES
Environment/Operations Information							
Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Depar [.] FORT LAUI				Proximity IRPORT/STR	ΙP	
Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 130/007 KTS	Destination KEY WEST			Airport	Data y Ident	- N/A	
Visibility - 6.0 SM Lowest Sky/Clouds - 1500 FT SCAT		ight Plan - N		Runwa Runwa	y Lth/Wid y Surface	- N/A - N/A	
Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - NIGHT(DARK)	Type of Cle	earance - N _ndg - U	INK/NR	Runwa	y Status	- N/A	
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 63 Biennial Flight !	Me Review	dical Certifi: Fl	ight Time (WAIVERS/LIM	11
COMMERCIAL SE LAND	Age - 63 Biennial Flight ! Current Months Since Aircraft Type	- YES - 23 ∋ - C-172RG	Total Make/Model- Instrument-	851 99 8	Last 3	24 Hrs - 30 Days- 90 Days-	2 21 34
Instrument Rating(s) - NONE							
THE PLT & PASSENGER DEPARTED ON A LATE NIGHT APPARENT INCIDENT UNTIL THE ACFT WAS IN AN OVABOUT 0223 EDT, WHEN THE ACFT WAS APRX 34 MI ACFT'S HEADING BEGAN TO CONSTANTLY CHANGE, WHAREA. AFTER MANEUVERING ABOUT 4 MIN, CONTACT 0655 EDT, AN OIL SLICK WAS FND IN THE VCNTY OR RECOVERED DEBRIS FROM THE ACFT, BUT THE ACFT'TO HAVE BEEN DESTROYED & THE OCCUPANTS WERE PWAS IN PART: 1500' SCATTERED, VIS 6 MI WITH HE	ERWATER DESCENT O'NORTHEAST OF KEY NICH RESULTED IN THE WITH THE ACFT WAS F THE ACFT'S LAST S MAIN WRECKAGE & RESUMED TO HAVE B	VER THE GULF WEST. RADAR D HE FLT MANEUV LOST, AND SE KNOWN POSITI THE OCCUPANT EEN FATALLY I	OF MEXICO. THE PARTY SHOWED THE PROPERTY OF THE PARTY SHOWED THE PARTY SHOWED THE PARTY SHOWED OF THE PART	IE DESCENT WIAT AT ABOUT IBS & DESCEN E EFFORTS WE O9OO EDT, A DUND. THE AC DWNED. THE W	AS NORMAL UTHAT TIME TS OVER A A RE INITIATI COAST GUAL FT WAS PRES	JNTIL , THE 4 MI ED. AT RD SHIP SUMED	

File No. - 900 5/27/89 BIG PINE KEY,FL Time (Lc1) - 0228 EDT A/C Req. No. N3201U Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - NORMAL Finding(s) 1. LIGHT CONDITION - DARK NIGHT 2. WEATHER CONDITION - HAZE/SMOKE 3. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND SPATIAL DISORIENTATION - PILOT IN COMMAND 5. LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. TERRAIN CONDITION - WATER ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT BECAME SPATIALLY DISORIENTED AND WAS UNABLE TO MAINTAIN CONTROL OF THE AIRCRAFT. THE LIGHT CONDITIONS (DARK NIGHT) AND WEATHER (HAZE) WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

				Injur	,	
		ANTIAL	Fatal			None
Type of Operation -PERSONAL	Fire	Crew	_	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	1
ircraft Information	First Mad a (Mada)	ONITINGNITAL N. 670		T	_ 4. *	V50 /N6
Make/Model - BOEING E75N1	Eng Make/Model - Co			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2717	Number Engines - Engine Type - RI			tall Warnin	g System	- NU
No. of Seats - 2	Rated Power - Ki		ETUR			
NO. Of SeatS - 2	Rated Power -	220 MP				
nvironment/Operations Information						
eather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEF		t	ON AIF	PORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport E		OUTTVE	
Basic Weather - VMC	LOCAL			DERDALE EXE		
Wind Dir/Speed- 110/012 KTS Visibility - 7.0 SM	ATC/Airspace			/Ident - /Lth/Wid -	08	100
Lowest Sky/Clouds - 2500 FT SC		- NONE		Surface -		100
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg		Ranway	Status	DKI	
Precipitation - NONE	Type Apolly Elling	TOUCH AND GO				
Condition of Light - DAYLIGHT			-			
ersonnel Information						
Pilot-In-Command	Age - 42	Medical Certifica			IVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight Review Current - YES Months Since - 2	Flig	ht Time (H			
PRIVATE	Current - YES	Total -			Hrs - UN	•
SE LAND	Months Since - 2	Make/Model-	115	Last 30	Days-	30
	Aircraft Type - C-182	Instrument- U Multi-Eng -	NK/NR	Last 90	Days-	50
		Multi-Eng -	6	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - NONE						
arrative						
LT RPRTD THAT DURING THE SECOND TOUCH	-&-GO LANDING ON THIS FLT. HE	"ATTEMPTED TO COPP	ECT DIRECT	TON OF ATPO	RAFT	
	FT PEDAL, PLANE NOSED OVER AF					

File No 88	4 5/27/89 	FORT LAUDERDALE,FL	A/C Reg. No. N1535M	Time (Lcl) - 1843 EDT	
Occurrence #1	LOSS OF CONTROL				
Phase of Operation	LANDING - ROLL				
Finding(s)					
1. WEATHER CONDITION					
2. BRAKES(NORMAL) ~	IMPROPER USE OF	- PILOT IN COMMAND			
3. DIRECTIONAL CONT.	ROL - NOT MAINTAII	NED - PILOT IN COMMAND			
4. GROUND LOOP/SWER	VE - INADVERTENT	- PILOT IN COMMAND			
Occurrence #2	NOSE OVER				
Phase of Operation	LANDING				
Probable Cause	_				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. THE CROSSWIND AND THE PILOT'S IMPROPER USE OF BRAKES WERE CONTRIBUTING FACTORS.

File No 978 6/10/89 S	ARASOTA,FL	A/C Reg. No. 1	N3 100B	Т	ime (Lcl) -	1720 EDT	
Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Damage			Injur		
Type of Operation -AERIAL O	BSERVATION	DESTROYED Fire	Crew	Fatal 1	Serious O	Minor O	None 0
Flight Conducted Under -14 CFR 9		ON GROUND	Pass	1	0	Ö	Ö
Accident Occurred During -DESCENT							
Aircraft Information							
Make/Model - CESSNA 170B	•	/Model - CONTINENTAL	C-145		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2200	Number Ei Engine T	ngines - 1 ype - RECIPROCATI	ING-CAPRIDE		tall Warning	g System	- YES
No. of Seats - 4	Rated Po	•	ING-CARBORE				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIE				OFF AI	RPORT/STRIP		
Method - N/A	SARASOT	•					
Completeness - N/A Basic Weather - VMC	Destination LOCAL	า	•	Airport Da	ata		
Wind Dir/Speed- 290/009 KTS	EGGAE			Runwa∨	Ident -	N/A	
Visibility - 6.0 SM	ATC/Airspac			Runway	Lth/Wid -		
	SCATTERED Type of F				Surface -		
Lowest Ceiling - NONE Obstructions to Vision- HAZE	Type of C Type Apch	learance - NONE /Lndq - NONE		Runway	Status -	N/A	
Precipitation - NONE	Type Apch	Lindy - Noine					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 54				WEDÍCAL-WA	IVERS/LIM	ΙT
Certificate(s)/Rating(s) COMMERCIAL	Biennial Flight Current		Fligh al -	t Time (H	ours) Last 24	Unc -	1
SE LAND		e - UNK/NR Make					3
02 2 /11 8			trument-		Last 90		4
Instrument Rating(s) - NONE							
Narrative							
PLT WAS MANEUVERING TO SPOT CATTLE FO	R A GROUND CREW WHEN	THE ACCIDENT OCCUR	RED. AS A TI	JRN WAS M	ADE TO REVE	RSE	
CTION, THE PLT'S ATTENTION WAS DIVERT LANE THEN STALLED AND ENTERED A SPIN) TO DECR	EASE. THE		
JANIE TELEN CTALLEN ANN ENTEREN A CRTAI	FRUM MHICH IT CDASHE	I INIO TREES AND TH	- GROUND				

File No. - 978 6/10/89 SARASOTA, FL A/C Reg. No. N3100B Time (Lc1) - 1720 EDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING - TURN TO REVERSE DIRECTION Finding(s) 1. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND DIVERTED ATTENTION - PILOT IN COMMAND 3. STALL/SPIN - INADVERTENT - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 4. TERRAIN CONDITION - HIGH VEGETATION 5. TERRAIN CONDITION - LOOSE GRAVEL/SANDY ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN AIRSPEED WHILE MANEUVERING TO SPOT CATTLE FOR A GROUND CREW.

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File No. - 999 6/10/89 ST. AUGUSTINE, FL A/C Reg. No. N9834D Time (Lc1) - 1020 EDT
----Basic Information----
      Type Operating Certificate-NONE (GENERAL AVIATION)
                                                          Aircraft Damage
                                                                                                     Injuries
                                                              SUBSTANTIAL
                                                                                         Fatal
                                                                                                  Serious Minor
                                                                                                                      None
                                                                                        1 0
     Type of Operation -PERSONAL
                                                             Fire
                                                                                 Crew
                                                                                                            0
                                                                                                                     Ω
     Flight Conducted Under -14 CFR 91
                                                             ON GROUND
                                                                                Pass
                                                                                            0
     Accident Occurred During -DESCENT
----Aircraft Information----
                                               Eng Make/Model - LYCOMING 0-320-B2B
Number Engines - 1
     Make/Model - PIPER PA-22-160
                                                                                            ELT Installed/Activated - YES/NO
     Landing Gear - TRICYCLE-FIXED Number Engines - 1

May Gross W+ - 2000 Engine Type - RECIPROCATING-CARBURETOR
                                                                                               Stall Warning System - NO
     Max Gross Wt - 2000
No. of Seats - 3
                                                  Rated Power - 150 HP
  ---Environment/Operations Information----
                                              Itinerary
    Weather Data
                                                                                       Airport Proximity
     Wx Briefing

    NO RECORD OF BRIEFING

                                               Last Departure Point
                                                                                        ON AIRPORT
       Method
                   - N/A
                                                 SAME AS ACC/INC
                                              Destination
       Completeness - N/A
                                                                                       Airport Data
      Basic Weather - VMC
                                                LOCAL
                                                                                         ST. AGUSTUINE
        Wind Dir/Speed- 240/011 KTS
                                                                                          Runway Ident - UNK/NR
       Visibility - 7.0 SM
                                              ATC/Airspace
                                                                                        Runway Lth/Wid - UNK/NR
                                                                                       Runway Surface - UNK/NR
       Lowest Sky/Clouds - 1500 FT SCATTERED Type of Flight Plan - NONE
       Lowest Ceiling - 25000 FT BROKEN Type of Clearance - NONE
                                                                                        Runway Status - UNK/NR
       Obstructions to Vision- NONE
                                                 Type Apch/Lndg - NONE
       Precipitation - NONE
       Condition of Light - DAYLIGHT
----Personnel Information----
    Pilot-In-Command
                                                                    Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT
                                          Age - 64
      Certificate(s)/Rating(s)
   COMMERCIAL,CFI
                                          Biennial Flight Review Flight Time (Hours)
                                           Current - YES Total - 72906 Last 24 Hrs - UNK/NR
Months Since - 8 Make/Model- UNK/NR Last 30 Days- 1
Aircraft Type - UNK/NR Instrument- UNK/NR Last 90 Days- 4
Multi-Eng - UNK/NR Rotorcraft - UNK/NR
         SE LAND
         GLIDER
         Instrument Rating(s) - AIRPLANE
----Narrative----
DURING GROUND ROLL, WITNESSES REPORTED ENG DEVELOPING INTERMITTENT POWER. TAKEOFF CONTINUED & AT ABOUT 150 FEET
AGL. PLT INITIATED A TURN TO THE LEFT TO RETURN TO THE ARPT. DURING THE TURN ACFT STALLED & CRASHED ON ARPT
PROPERTY. PLT WAS REMOVED FROM BURNING ACFT & TRANSPORTED TO THE HOSPITAL WHERE HE DIED OF HIS INJURIES. FIRE
EXTINGUISHED BY LOCAL FIRE DEPT. EXAM OF ACFT REVEALED NO EVIDENCE OF FAILURE OR MALFUNCTION OF THE FLT
CONTROLS. EXAM OF ENG REVEALED NO DETERMINATION COULD BE MADE FOR THE REPORTED INTERMITTENT POWER. THE IGNITION
HARNESS & LT MAGNETO WERE DAMAGED BY FIRE. RT MAGNETO OPERATED NORMALLY. AS DID THE SPARK PLUGS. MAGNETO SWITCH
AT ACCIDENT SITE POSITIONED TO THE RT MAG. IT TESTED NORMALLY. FUEL CONTINUITY FROM EACH FUEL TANK TO GASCOLATOR
WAS VERIFIED. FUEL LINE FROM GASCOLATOR TO CARBURETOR WAS DAMAGED BY FIRE. EXAM OF CARBURETOR REVEALED FLOAT
DESTROYED & PRIMARY VENTURI NOT INSTALLED. IDENTICAL ENG AT MANUFACTURERS FACILITY WITH VENTURI REMOVED FROM CARB REVEAL
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6/10/89 File No. - 999 ST. AUGUSTINE, FL A/C Reg. No. N9834D Time (Lcl) - 1020 EDT Occurrence #1 LOSS OF ENGINE POWER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. IGNITION SYSTEM - UNDETERMINED 2. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT 3. JUDGEMENT - POOR - PILOT IN COMMAND 4. ABORTED TAKEOFF - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY) Finding(s) 5. AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND 6. EMERGENCY PROCEDURE - NOT FOLLOWED - PILOT IN COMMAND 7. STALL/SPIN - INADVERTENT - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. TERRAIN CONDITION - GROUND Occurrence #4 FIRE Phase of Operation OTHER ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN AIRSPEED DURING THE TURN TO RETURN TO THE AIRPORT, RESULTING IN THE LOSS OF CONTROL. CONTRIBUTING TO THE ACCIDENT WAS HIS CONTINUED TAKEOFF WITH INTERMITTENT ENGINE POWER.

File No 998 6/15/89 [DAYTONA BEACH,FL A/C R	eg. No. N57946	Time (Lc1) - 1155 EDT	
Basic Information Type Operating Certificate-NONE (GE Type of Operation -BANNER T Flight Conducted Under -14 CFR S Accident Occurred During -CRUISE	DESTRO Fire	t Damage YED Crew Pass	Fatal Ser 1 O	Injuries Pious Minor O O O O	None O O
Aircraft Information Make/Model - BOEING A-75 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2700 No. of Seats - 2	Engine Type - RE		Stall	alled/Activated Warning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIE Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 4000 FT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary FING Last Departure Point NEW SMYRNA,FL Destination LOCAL ATC/Airspace SCATTERED Type of Flight Plan Type of Clearance	- NONE	Airport Proxi OFF AIRPORT Airport Data Runway Ider Runway Lth/ Runway Surf Runway Stat	rt - N/A Wid - N/A Face - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 43 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - 24	Medical Certificato Fligh Total - : Make/Model- Instrument- UNI Multi-Eng - UNI	t Time (Hours) 2705 L 300 L K/NR L)	1
Instrument Rating(s) - AIRPLAN					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE BIPLANE PILOT FAILED TO SEE AND AVOID THE COLLISION WITH THE BANNER BEING TOWED BY THE OTHER AIRPLANE.

File No 983 6/18/89 LANTA	NA,FL A/C F	Reg. No. N2UM	Time	(Lc1) - 1534 ED	Γ
Basic Information Type Operating Certificate-NONE (GENERA	The state of the s	t Damage		Injuries	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	DESTRO Fire NONE	OYED Crew Pass	Fatal Sei 1 O	rious Minor O O O O	None O O
Aircraft Information Make/Model - UHLEY-MASON R.A.F. VARI Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1110 No. of Seats - 2	-EZE Eng Make/Model - L' Number Engines - Engine Type - RE Rated Power -	 	Stall	alled/Activated Warning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 090/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	LANTANA,FL Destination BOCA RATON,FL ATC/Airspace TERED Type of Flight Plan	- NONE	Runway Sur	T/STRIP nt - N/A /Wid - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 58 Biennial Flight Review Current - YES Months Since - 8 Aircraft Type - VARI-	Medical Certificat Fligh Total - Make/Model- Z Instrument-	te - VALID MED: nt Time (Hours 185 89 3	ICAL-WAIVERS/LIM) _ast 24 Hrs - Last 30 Days- _ast 90 Days-	1 2 2
Instrument Rating(s) - NONE					
WITNESSES STATED THE ENG FAILED ABRUPTLY AS T STAND AFTER THE ACCIDENT AND OPERATED TO FULL FUEL WAS FOUND IN THE AIRFRAME AND ENG FUEL S IN THE ACCIDENT AND THE POSITION OF THESE SWI THE ENG OPERATE ON THE TEST STAND AND WHEN TH IDENTIFIED THIS FAILURE MODE AS SIMILAR TO TH HAD INADVERTENTLY TURNED OFF THE IGNITION SWI HE STATED THE POINT IN THIS FLIGHT THAT THE E AIR VENT.	POWER WITH NO EVIDENCE OF YSTEM AFTER THE ACCIDENT. TCHES COULD NOT BE DETERMINE IGNITION SWITCHES WERE TO INFLIGHT FAILURE OF THE ETCHES A FEW YEARS BEFORE WERE	FAILURE OR MALFUNCT THE ENG IGNITION SWI NED. WITNESSES TO TH PRNED OFF THE ENG FA ENG. THE OTHER OWNER HEN HE BUMPED THEM W	TION. UNCONTAM: TCHES WERE DES HE ACCIDENT OBS AILED ABRUPTLY OF THE ACFT S WHILE CLOSING	INATED STROYED SERVED . THEY STATED HE IHE AIR VENT.	

File No 98	33 6/18/89 	LANTANA,FL	A/C Reg. No. N2UM	Time (Lc1) - 1534 EDT	
Occurrence #1 Phase of Operation	LOSS OF ENGINE PO	OWER(TOTAL) - NON-M	ECHANICAL		
Finding(s) 1. IGNITION SYSTEM 2. EQUIPMENT, OTH		DEACTIVATION - PILO	T IN COMMAND	· ·	
Occurrence #2 Phase of Operation		•	TER		
Finding(s) 3. TERRAIN CONDITIO	N - ROADWAY/HIGHW	ΑΥ			
Probable Cause	-				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOTS INADVERTENT TURNING OFF OF THE ENGINE IGNITION SWITCHES RESULTING IN ENGINE FAILURE.

Type Operating Certificate-NONE (GEN		ft Damage		Injur		
Town of Openstion DEDCOMAL		ANTIAL	Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass	0	0	0	1 6
Accident Occurred During -LANDING	None	7 435	O	O	O	Ü
Aircraft Information						
Make/Model - CESSNA 421B Landing Gear - TRICYCLE-RETRACTABLE		ONTINENTAL GTSIO-520				
Max Gross Wt - 6840	Engine Type - R		2	tall Warnin	g System	- 152
No. of Seats - 8	5 7,	375 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport			
Wx Briefing - NO RECORD OF BRIEF Method - N/A	ING Last Departure Poin KISSIMMEE,FL	t	ON AIR	PORT		
Completeness - N/A	Destination		Airport Da	ata		
Basic Weather - VMC	SAME AS ACC/INC			AUDERDALE E	XECUTIVE	
Wind Dir/Speed- UNK/NR					08	
Visibility - 15.0 SM	ATC/Airspace	NONE		Lth/Wid -		100
Lowest Sky/Clouds - 2000 FT S Lowest Ceiling - NONE	CATTERED Type of Flight Plar Type of Clearance			Surface - Status -		
Obstructions to Vision- NONE	Type Apch/Lndg		Ranway	5 (4 (45	DKI	
Precipitation - NONE	, , ,					
Condition of Light - NIGHT(DARK) 					
Personnel Information Pilot-In-Command	Age - 42	Medical Certificat	e - VALID	MEDICAL-NO	WATVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	t Time (Ho	ours)	·	
COMMERCIAL	Current - UNK/N	R Total -	3200	Last 24	Hrs - UN	K/NR
SE LAND, ME LAND	Months Since - UNK/N		K/NR K/NR	Last 30	Days- UN	K/NR
	Aircraft Type - UNK/N	Multi-Eng - UN	K/NR K/NR	Rotorcr	aft - UN	K/NR K/NR
Instrument Rating(s) - AIRPLANE						
Narrative	O LAND AT MICHT. CHE ALLOWED	THE AIDCREED TO STOCK	IDATE AND	THE CINE D	A T.F.	
PILLE STATED THAT DURING AN APPROACH I	O LAND AT NIGHT, SHE ALLOWED	THE AIRSPEED TO DISS	THAIF AND	THE STUK K	AIL	

File No. - 899 7/03/89 FORT LAUDERDALE,FL A/C Reg. No. N149RT Time (Lc1) - 0300 EDT

Occurrence #1 HARD LANDING
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. LIGHT CONDITION - DARK NIGHT
2. FLARE - IMPROPER - PILOT IN COMMAND

Occurrence #2 COMPLETE GEAR COLLAPSED
Phase of Operation LANDING

Finding(s)

3. LANDING GEAR - OVERLOAD

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE PILOT. THE LIGHT CONDITION (DARK NIGHT) WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

----Probable Cause----

Type of Operation -AERIAL APPL	SUE	 			ies	
Type of Operation -AERIAL APPL		BSTANTIAL	Fatal		Minor	None
	ICATION Fire		Crew O	0	0	1
Flight Conducted Under -14 CFR 137		NE	Pass 0	0	0	0
Accident Occurred During -MANEUVERING					. - .	
rcraft Information						
Make/Model - BELL TH-13T		- LYCOMING 0-425-A	1F EL	T Installed/A		
Landing Gear - SKID	Number Engines			Stall Warnin	ıg System	- NO
Max Gross Wt - 2950		- RECIPROCATING-CA	RBURETOR			
No. of Seats - 3	Rated Power	- 265 HP			. 	
nvironment/Operations Information						
eather Data	Itinerary			t Proximity		
Wx Briefing - NO RECORD OF BRIEFIN			OFF	AIRPORT/STRIP)	
Method - N/A	SAME AS ACC/INC					
Completeness - N/A Basic Weather - VMC	Destination		Airport	Data		
Wind Dir/Speed- 220/010 KTS	LOCAL		Duny	ay Ident -	- N/A	
Visibility - 7.0 SM	ATC/Airspace			ay Lth/Wid -		
Lowest Sky/Clouds - 2500 FT SCA		lan - NONE		ay Surface -		
Lowest Ceiling - 25000 FT BRO				•	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg			a, otatae	,	
Precipitation - NONE	· , , - · · · , - · · · · · · · · · · ·					
Condition of Light - DUSK						
ersonnel Information						
Pilot-In-Command	Age - 26	Medical Certi	ficate - VAL	ID MEDICAL-NO) WAIVERS	/I TMIT
Certificate(s)/Rating(s)	Biennial Flight Review		Flight Time		,	
COMMERCIAL	Current - YES	S Total	- 1200	Last 24		4
	Months Since - 16 Aircraft Type - 470	Make/Mode	1- 1200	Last 30) Days-	150
HELICOPTER	Aircraft Type - 470	G-2 Instrumen	t- UNK/NR	Last 30 Last 90 Rotorer) Days-	350
		Multi-Eng	- UNK/NR	Rotorcr	raft -	1200
Instrument Rating(s) - NONE						
arrative G AN AERIAL APPLICATION FLIGHT AT DUSK,						

File No. - 823 7/19/89 JAY,FL A/C Reg. No. N65212 Time (Lcl) - 2012 CDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND
2. LIGHT CONDITION - DUSK
3. VISUAL LOOKOUT - INADEQUATE 4. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND
5. OBJECT - WIRE,TRANSMISSION
6. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

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

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PLANNING/DECISION BY THE PILOT AND HIS FAILURE TO MAINTAIN CLEARANCE FROM THE POWER LINE. CONTRIBUTING FACTORS WERE: LIGHT CONDITIONS AT DUSK, TRANSMISSION (POWER) LINES, AND THE PILOT'S LACK OF VISUAL CUES (VISUAL PERCEPTION) AT DUSK.

File No 966 2/16/89 JACKSO	N,GA	A/C Reg. No. N	4126Y	Т	ime (Lcl) -	1755 EST	
-Basic Information Type Operating Certificate-NONE (GENERAL		ircraft Damage DESTROYED		Fatal	Injur Serious	ries Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	F	ire NONE	Crew Pass	1		0	0
-Aircraft Information Make/Model - BELLANCA 7GCBC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Number Engine: Engine Type	I - LYCOMING O- S - 1 - RECIPROCATI - 150 HP		S	Installed/A tall Warnir		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 330/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure SAME AS ACC/ Destination LOCAL ATC/Airspace OVC Type of Flight Type of Cleara Type Apch/Lndg	INC Plan - NONE nce - NONE		OFF AI rport D Runway Runway Runway	Ident - Lth/Wid - Surface -	- N/A - N/A	
	Age - 52 Biennial Flight Revio Current - 1 Months Since - 1 Aircraft Type - 1	ew JNK/NR Totá JNK/NR Make JNK/NR Inst	Certificate Flight I - 10 /Model- UNK/ rument- UNK/ i-Eng - UNK/	Time (H OO NR NR	ours) Last 24 Last 30 Last 90	1 Hrs - UN Days- UN Days- UN	K/NR K/NR K/NR
Narrative E AIRPLANE WAS PERFORMING LOOPS AT LOW ALTIT WOODED AREA. A WITNESS CLOSE TO THE ACCIDENT WAS COMPLETING A LOOP. POST-CRASH EXAMINATI CHANICAL MALFUNCTION OR FAILURE. POST-MORTEM ANY MEDICAL CONDITION WHICH COULD BE CAUSAL PORTED THAT THE PILOT HAD ROUTINELY PERFORME	SITE REPORTED THAT ON OF THE AIRPLANE R EXAMINATION OF THE LY RELATED TO THE AC	THE AIRPLANE EN EVEALED NO EVID PILOT BY A MEDI CIDENT. WITNESS	TERED THE SP ENCE OF ANY CAL EXAMINER ES AND OTHER	IN DURI PRE-EXI REVEAL AREA R	NG DESCENT STING ED NO EVIDE ESIDENTS	AS	

File No. - 966 2/16/89 JACKSON, GA A/C Reg. No. N4126Y Time (Lcl) - 1755 EST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 1. MANEUVER - ATTEMPTED - PILOT IN COMMAND 2. ALTITUDE - INADEQUATE - PILOT IN COMMAND 3. AIRSPEED - INADEQUATE - PILOT IN COMMAND 4. STALL/SPIN - INADVERTENT - PILOT IN COMMAND 5. REMEDIAL ACTION - NOT POSSIBLE -IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. TERRAIN CONDITION - GROUND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER HANDLING OF THE AIRPLANE WHICH RESULTED IN AN INADVERTENT STALL/SPIN AND SUBSEQUENT COLLISION WITH TERRAIN. FACTORS CONTRIBUTING TO THE ACCIDENT WERE THE PILOT'S DECISION TO PERFORM AEROBATIC MANEUVERS AT LOW ALTITUDE, AND COMPLACENCY ABOUT PERFORMING SUCH MANEUVERS.

----Probable Cause----

File No 901 3/04/89 ST MA	RYS ISLAND,GA A,	/C Reg. No. N	9299Q	T	ime (Lc1)	- 1730 E	ST
Basic Information Type Operating Certificate-NONE (GENERA	DES	craft Damage STROYED		Fatal	Serious		
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	Fire ON	e GROUND	Crew Pass	0	0	0	0
Aircraft Information Make/Model - BEECH 95-B55 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5100 No. of Seats - 6	Eng Make/Model Number Engines Engine Type Rated Power	- 2			Installed/ tall Warni		ed - YES/NO em - NO
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 030/004 KTS Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - OBSCURED Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Portion TITUSVILLE,FL Destination BRUNSWICK,GA ATC/Airspace Type of Flight P Type of Clearance Type Apch/Lndg	lan - NONE		OFF AIR Airport Da Runway Runway Runway		- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 44 Biennial Flight Review Current - NO Months Since - UNI Aircraft Type - UNI	Tota K/NR Make	l - e/Model-	nt Time (Ho 1181	ours) Last 2 Last 3	4 Hrs -	UNK/NR UNK/NR
Instrument Rating(s) - NONE							
THE AIRPLANE CRASHED INTO A SINGLE FAMILY DWE WEATHER CONDITIONS PREVAILED AT THE TIME. THE EN ROUTE. THE AIRPLANE CUT A SWATH THROUGH TH AIRPLANE FOLLOWED THE CONTOUR OF THE TREES UN DESTROYED THE AIRPLANE'S CENTER SECTION AND C SYSTEM MALFUNCTION. THE PILOT DID NOT HOLD AN	PILOT HAD RECEIVED A WI E TREES ABOUT 600 FEET I TIL IT CRASHED INTO A TI OCKPIT. WRECKAGE EXAMINA	EATHER BRIEFI LONG. THE PRO REE ADJACENT ATION FAILED	NG AND WAS FILE VIEW TO A HOUSE TO DISCLOS	AWARE OF INDICATED I. THE POS SE ANY COM	THE CONDI THAT THE IMPACT F PONENT FAI	TIONS	

File No 90	3/04/89	ST MARYS ISLAND, GA	A/C Reg. No. N9299	Q Time	(Lc1) - 1730 EST
Occurrence #1 Phase of Operation	IN FLIGHT ENCOUNT	ER WITH WEATHER			
4. OVER CONFIDE 5. LACK OF TOTA	N - FOG O IMC - CONTINUED NCE IN PERSONAL AE L EXPERIENCE IN TY L EXPERIENCE IN TY	- PILOT IN COMMAND BILITY - PILOT IN COMMAND PE OF AIRCRAFT - PILOT IN PE OPERATION - PILOT IN	N COMMAND		
occurrence #2 Phase of Operation	IN FLIGHT COLLISI				
inding(s) 7. OBJECT - TREE(S) 8. VISUAL LOOKOUT 9. VISUAL/AURAL	- NOT POSSIBLE - PERCEPTION - PILO	OT IN COMMAND			
ccurrence #3	IN FLIGHT COLLISI	ON WITH TERRAIN/WATER			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT CONTINUED INTO IMC CONDITIONS WHERE HE COLLIDED WITH TREES.

File No 957 3/16/89 SWAIN	SBORO,GA A/C Reg	j. No. N73944	Т	ime (Lc1) -	1830 EST	•
Basic Information						
Type Operating Certificate-NONE (GENERA			_	Injur		
	SUBSTANT		Fatal			None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	1	0
-Aircraft Information						. -
Make/Model - CESSNA 172N	Eng Make/Model - LYCC	MING 0-320-H2AD	ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warnin	g System	- YES
Max Gross Wt - 2300	Engine Type - RECI	PROCATING-CARBURET	OR			
No. of Seats - 4	Rated Power -	60 HP				
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIR	•		
Method - N/A	CHAMBLEE, GA					
Completeness - N/A	Destination	А	irport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		JOSH L	EWIS		
Wind Dir/Speed- 280/003 KTS	·		Runwa∨	Ident -	36	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -	4000/	100
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance -			Status -		
Obstructions to Vision- NONE		TRAFFIC PATTERN				
Precipitation - NONE	,, , , , , , , , , , ,	FULL STOP				
Condition of Light - DUSK						
Pilot-In-Command	Age - 45	Medical Certificate	- VALID	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)			Time (H			
PRIVATE	Current - YES	Total -	328	Last 24	Hrs -	1
SE LAND	Months Since - 18		198	Last 30	Days-	9
	Aircraft Type - C-172N	Instrument- UNK	/NR	Last 90	Days-	21
		Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE						
-Narrative						
PLT WAS ATTEMPTING TO LAND AT THE UNLIGHT					OWN	
PLOWED DIRT BORDERING THE RWY AND NOSED OV						
STRIP. EXAMINATION OF AERIAL PHOTOGRAPHS O						
ME LENGIH & WIDTH AS THE DWV AND LIGHTED I	N COLOR THAN THE RWY & SURROL	INDING TERRAIN. THE	DIRT AR	EA STOOD OU	T	
CONTRAST COMPARED TO THE RWY AND OTHER SUR						

File No. - 957 3/16/89 SWAINSBORO,GA A/C Reg. No. N73944 Time (Lcl) - 1830 EST

Occurrence #1 NOSE OVER
Phase of Operation LANDING - ROLL

Finding(s)

1. LIGHT CONDITION - DUSK

- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- . LACK OF FAMILIARITY WITH GEOGRAPHIC AREA PILOT IN COMMAND
- 4. TERRAIN CONDITION SOFT
- 5. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DECISION TO LAND AT AN UNLIGHTED AIRSTRIP IN LOW LIGHT CONDITIONS, AND HER SUBSEQUENT, INADVERTENT SELECTION OF UNSUITABLE TERRAIN BORDERING THE RUNWAY.

Type Operation Type Operation Type of Operation Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING Aircraft Information Make/Model - PIPER PA-16 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Mo	Aircraft Dan SUBSTANTIAI Fire NONE	_	Fatal O O	-	ries Minor O O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDINGAircraft Information Make/Model - PIPER PA-16				-	-	-	
Make/Model - PIPER PA-16							0
Max Gross Wt - 1650 No. of Seats - 4	Engine Type Rated Power	nes - 1 - RECIPRO	NG 0-235-C1 OCATING-CARBURE HP	S ETOR	tall Warni	Activated ong System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/009 KTS Visibility - 12.0 SM Lowest Sky/Clouds - 25000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE	Itinerary Last Departu MACON,GA Destination LOCAL ATC/Airspace TERED Type of Flig Type Apch/Lr	ght Plan - NOI Irance - NOI		Airport OFF AI Airport D Runway Runway Runway Runway	Proximity RPORT/STRI ata Ident Lth/Wid Surface	P - N/A - N/A	
Condition of Light - DAYLIGHT							
<pre>-Personnel Information Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 17 Biennial Flight Re	Med eview	ical Certificat Fligh	te - VALID nt Time (H		O WAIVERS/	_IMIT
PRIVATE SE LAND	Current Months Since Aircraft Type			199 41 O 6	Last 3	4 Hrs - O Days- O Days-	3 41 75
Instrument Rating(s) - NONE							
Narrative E PLT REPORTED THAT THE ENGINE BEGAN TO LOS RB ICE". THE PLT APPLIED CARB HEAT AFTER THI D THE PLT ELECTED TO MAKE A PRECAUTIONARY LI JLD NOT BRAKE THE AIRPLANE TO A STOP BEFORE LDG WAS ONLY 2 TO 3 MINUTES, ACCORDING TO RING ENDS OF THE SPARK PLUGS. ACCORDING TO MODERATE ICING AT CRUISE PWR. THE AIRPLANE GAS AND AUTO GAS.	E ENGINE LOST OVER DG IN AN OPEN FIELD COLLIDING WITH A F THE PLT. EXAM OF TH ICING PROBABILITY C	300 RPM. THE D. THE FIELD N ENCE. TOTAL N E ENGINE REVIOUS CURVES, CONDI	ENGINE CONTINU WAS UNEVEN, AND ELAPSED TIME FF EALED BLACK, SO TIONS WERE FAVO	JED TO LOS D THE PLT ROM THE IN DOTY DEPOS DRABLE FOR	E PWR FOUND THAT ITIAL PWR ITS ON THE THE FORMA	HE LOSS TION	

File No. - 980 3/29/89 DANVILLE.GA A/C Reg. No. N5368H Time (Lc1) - 1045 EST

Occurrence #1

LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL

Phase of Operation CRUISE

Finding(s)

- 1. WEATHER CONDITION CARBURETOR ICING CONDITIONS
- 2. INDUCTION AIR CONTROL/SYSTEM ICE
- 3. CARBURETOR HEAT DELAYED PILOT IN COMMAND
- 4. PRECAUTIONARY LANDING ATTEMPTED PILOT IN COMMAND

Phase of Operation LANDING

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Finding(s)

5. TERRAIN CONDITION - ROUGH/UNEVEN

6. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

7. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DELAYED IN APPLYING CARBURETOR HEAT AFTER THE ENGINE BEGAN TO LOSE POWER. AND HIS SELECTION OF UNSUITABLE TERRAIN FOR A PRECAUTIONARY-LANDING SITE.

File No 982 6/29/89 AMERI	CUS,GA A/C R	eg. No. N8773S	Т	ime (Lcl)	- 1100 ED	Т
Basic Information Type Operating Certificate-AGRICULTURAL Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING	DESTRO	t Damage IYED Crew Pass	Fatal 1	Inju Serious O O	uries Minor O	None O O
Aircraft Information Make/Model - AIR TRACTOR AT-301 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 5000 No. of Seats - 1	Eng Make/Model - P8 Number Engines - 1	W R-1340-AN-1 CIPROCATING-CARBURE 600 HP	ELT S	Installed, tall Warn		- NO -N/A - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 10.0 SM Lowest Sky/Clouds - 2000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point AMERICUS,GA Destination LOCAL ATC/Airspace TERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	UNK/NR Airport D Runway Runway Runway	ata Ident Lth/Wid Surface		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 35 Biennial Flight Review Current - YES Months Since - 3 Aircraft Type - 7AC	Fligh Total -	nt Time (H 5000 3500	ours)	24 Hrs - 30 Days-	/LIMIT 10 100 200
Instrument Rating(s) - NONENarrative THE ACFT WAS AT THE START OF A SWATH RUN TO S PART OF THE LEFT WING TIP WAS SEVERED AND THE THE POWER LINES. VISUAL METEOROLOGICAL CONDIT INDICATION OF A SYSTEM OR MECHANICAL MALFUNCT AND OTHER COMPOUNDS.	PRAY A PEANUT FIELD AND CON ACFT MADE INITIAL CONTACT IONS PREVAILED AT THE TIME	TACTED THE LOWER THE WITH THE GROUND APPORT OF THE OCCURRENCE.	PROXIMATEL INVESTIGA	Y 450 FEET TION REVEA	F FROM ALED NO	

File No. - 982 6/29/89 AMERICUS, GA A/C Reg. No. N8773S Time (Lcl) - 1100 EDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. OBJECT - WIRE.TRANSMISSION 2. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 3. VISUAL LOOKOUT - NOT OBTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

4. TERRAIN CONDITION - GROUND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO PROPERLY SURVEY THE AREA IN WHICH HE WOULD BE CONDUCTING AERIAL APPLICATION FLIGHTS AND HIS FAILURE TO SEE AND AVOID POWERLINES WHILE PERFORMING AERIAL APPLICATION.

		~ .	N5509K	'	Tille (LCT)	- 0936 EDT	
Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious		None
Type of Operation -SCHEDULED, [Flight Conducted Under -14 CFR 121 Accident Occurred During -LANDING	OMESTIC, CARGO	Fire NONE	Crew Pass	0	0	0 0	2
Aircraft Information Make/Model - CONVAIR 640 (340D) Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 55000 No. of Seats - 2	Number Eng	lodel - ROLLS-ROYCE lines - 2 le - TURBOPROP er - 2750 HP	E DART1OMK54	2-4 ELT		Activated	
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - TELETYPE	Itinerary Last Depart DETROIT,M	ure Point		Airport ON AIR	Proximity RPORT		
Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 350/005 KTS Visibility - 4.000 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAYLIGHT	Destination SAME AS A ATC/Airspace Type of Fli	cc/INC ght Plan - IFR earance - IFR	MPLETE HT-IN	Runway Runway Runway	TA HARTSFIEL	- 26R - 9000/ - CONCRETE	
-Personnel Information Pilot-In-Command	Age - 44		Certificate	- VALIC		AIVERS/LIM	IIT
Certificate(s)/Rating(s) COMMERCIAL,ATP SE LAND,ME LAND HELICOPTER	Months Since	- YES Tota - 4 Make - CV-640 Ins	Filght al - 7 e/Model- trument- UNK ti-Eng - 6	404 450 /NR	Last 24 Last 30 Last 90	4 Hrs - UN) Days-) Days- raft -	19 105
Instrument Rating(s) - AIRPLANE,	HELICOPTER						
Narrative RING THE DESCENT TO THE OUTER MARKER FOR A D NOT DESCEND TO A POINT WHERE A STABILIZE OSSED THE OUTER MARKER WITH A FULL SCALE F PORTED THAT HE ATTAINED THE GLIDE SLOPE F S FLARED FOR LANDING AT AN EXCESSIVE ALTI	VISUAL APPROACH WIED APPROACH TO LANDIFLY DOWN DEFLECTION ROM ABOVE WHEN HE WATUDE AND TOUCHDOWN W	TH AN ILS BACKUP TING COULD BE COMPLION THE ILS GLIDE SEARCH ON MILE INTO A SEARCH ON THE INTERIOR OF THE INTE	TO RUNWAY 26 ETED. THE AI SLOPE INDICA FROM THE THR AT LEAST 1,	RPLANE F TOR. THE ESHOLD. 500 FEE1	REPORTEDLY E PILOT THE AIRPLAN	NE	

8/03/89 A/C Reg. No. N5509K Time (Lcl) - 0936 EDT File No. - 977 ATLANTA, GA

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. ALTITUDE EXCESSIVE PILOT IN COMMAND
- 2. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 3. FLARE INITIATED PILOT IN COMMAND
- 4. TOUCHDOWN IMPROPER PILOT IN COMMAND
- 5. REMEDIAL ACTION INADEQUATE PILOT IN COMMAND
- 6. ABORTED LANDING NOT PERFORMED PILOT IN COMMAND
- 7. PROCEDURES/DIRECTIVES NOT FOLLOWED PILOT IN COMMAND

Occurrence #2 NOSE GEAR COLLAPSED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

8. DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT IN COMMAND FAILED TO PLACE THE AIRPLANE AT A POSITION FROM WHICH A STABILIZED APPROACH TO LANDING COULD BE MADE. HIS PROCEDURE FOR THE RECOVERY FROM THE BOUNCED LANDING WAS INADEQUATE AND THE NOSE GEAR STRUCTURAL STRENGTH WAS EXCEEDED DURING FOLLOWING TOUCHDOWNS.

File No 803 10/17/89 VALDOSTA	A,GA A/C Reg	. No. N172SC	Т	ime (Lc1) -	1502 EDT	
Type of Operation -AERIAL OBSERVATE Flight Conducted Under -14 CFR 91	SUBSTANT	[AL Crew		Injuri Serious O O		None 1
Accident Occurred During -MANEUVERING	HONE	, 455	· ·	Ŭ	Ŭ	•
Aircraft Information Make/Model - CESSNA 172N Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	· , ,	MING 0-320-H2AD PROCATING-CARBUR 50 HP	S	Installed/Actall Warning		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/008 KTS Visibility - 12.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3500 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point VALDOSTA,GA Destination VALDOSTA,GA ATC/Airspace Type of Flight Plan - I Type of Clearance - I Type Apch/Lndg - I	NONE	OFF AI Airport D VALDOS Runway Runway Runway	TA REGIONAL	N/A	
	ge - 54 M iennial Flight Review Current - YES Months Since - 2	Total -	nt Time (H 8039	ours)	Hrs -	IT 4 63
SE LAND, ME LAND	Aircraft Type - PA-32RT		1440	Last 90 Rotorcra	Days-	98 O
Instrument Rating(s) - AIRPLANE		J				
Narrative HILE THE PLT WAS PATROLLING A 115 KV POWER LINE HE PLT FELT A "JOLT" AS THE ACFT STRUCK THE 230 HECK, THEN HE RETURNED TO THE ARPT & LANDED WITHER STABLIZER & RUDDER.	O KV LINE, BUT THE ACFT CON	TINUÉD FLYING. H	E MADE A C	ONTROLLABILI	TY	

File No. - 803 10/17/89 VALDOSTA,GA A/C Reg. No. N172SC Time (Lc1) - 1502 EDT

Occurrence #1
Phase of Operation

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation MANEUVERING

Finding(s)

1. OBJECT - WIRE, TRANSMISSION

- 2. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 3. VISUAL/AURAL PERCEPTION PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE VISUAL LOOKOUT BY THE PILOT (FAILURE TO SEE & AVOID THE OBSTRUCTION). CONTRIBUTING FACTORS WERE THE TRANSMISSION (POWER) LINE AND LACK OF VISUAL CUES (PILOT'S VISUAL PERCEPTION).

File No 965 1/03/89	S.TIMBALIER 151,GM A/C Re	eg. No. N22704	Tin	me (Lcl) - 125	O CST	
Basic Information Type Operating Certificate-ON-DEM	AND AIR TAXI Aircraf	Патадо		Injuries		
Type operating certificate-on-ben	DESTRO		Fatal		inor	None
Type of Operation -OTHER		Crew		0	1	0
Flight Conducted Under -14 CFR		Pass	-	Ö	ò	0
Accident Occurred During -DESCEN		, 433	v	Ü	Ŭ	Ŭ
Aircraft Information						
Make/Model - BELL 206B-III	Eng Make/Model - All			nstalled/Activ		
Landing Gear - EMERGENCY FLOAT	Number Engines - 1		Sta	all Warning Sy	/stem ·	- NO
Max Gross Wt - 3200		RBOSHAFT				
No. of Seats - 5	Rated Power -	420 HP				
Environment/Operations Information-						
Weather Data	Itinerary		Airport Pr			
Wx Briefing - NO RECORD OF BR			OFF AIRE	PORT/STRIP		
Method - N/A	S.T. 151		Administration Design			
Completeness - N/A	Destination		Airport Dat			
Basic Weather - VMC Wind Dir/Speed- 270/016 KTS	S.T. 151		S. TIM			
	ATC /A : n = n = n		Runway 1			
Visibility - 10.0 SM	ATC/Airspace T SCATTERED Type of Flight Plan	COMPANY (VED)		_th/Wid - N/A Surface - N/A		
Lowest Ceiling - 10000 F			-	•		
Obstructions to Vision- NONE	Type Apch/Lndg		Runway	Status - N/A	4	
Precipitation - NONE	Type Apch/Lhdg	FURCED LANDING				
Condition of Light - DAYLIGH	IT.					
DATE OF EIGHT	··					
Personnel Information Pilot-In-Command	Age - 40	Medical Certifica	to - VALID M	MEDICAL-NO WAI	(VEDS/	TMTT
Certificate(s)/Rating(s)	Biennial Flight Review	Flia	ht Time (Hou			
COMMERCIAL	Current - YES	Total -	3522	Last 24 Hrs	s -	2
COMMERCIAL	Biennial Flight Review Current - YES Months Since - 3	Make/Model-	1431	Last 30 Day		
HELICOPTER	Aircraft Type - BH-206	Instrument-	192	Last 90 Day		
.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2110 01 01110		Rotorcraft		3522
Instrument Rating(s) - HELIC	OPTER					
Namadius						
Narrative	THE A CLINE LOAD DIOK UP ON AN OFF	CHORE DI ATERDA	LIDING THE AL	ITODOTATION		
IE ACFT EXPERIENCED AN ENG FAILURE DUR IE LEFT SKID AND FLOAT STRUCK A HANDRA						
ILLED OVER AS A RESULT OF THE SEPARATE						
THE STAGE COMPRESSOR WHEEL FATIGUE FAIL						
H STAGE CUMPRESSUR WHEEL PATIGUE FAIL EN DETECTED DURING THE MANUFACTURING		AT A CASTING INCL	OSTON IDAL (TAD NOT		
THE DETECTED DOKING THE MANUFACTURING	FRUCESS.					
					- -	- -

Time (Lc1) - 1250 CST File No. - 965 1/03/89 S.TIMBALIER 151.GM A/C Reg. No. N22704 Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation HOVER Finding(s) 1. COMPRESSOR ASSEMBLY.ROTOR DISC - FAILURE.TOTAL 2. COMPRESSOR ASSEMBLY.CASTING - FATIGUE 3. MAINTENANCE, REBUILD/REMANUFACTURE - IMPROPER - MANUFACTURER Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 4. OBJECT - BUILDING(NONRESIDENTIAL) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - EMERGENCY Finding(s) 5. TERRAIN CONDITION - WATER ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

A COLLISION BETWEEN THE AIRCRAFT AND THE PLATFORM DURING THE EMERGENCY AUTOROTATION WHICH CAUSED THE LEFT SKID AND
FLOAT TO SEPARATE AND DESTABILIZED THE AUTOROTATION. THE COLLISION WAS PROBABLY UNADOIDABLE DUE TO THE MANEUVER THAT
WAS BEING CONDUCTED AT THE ONSET OF THE EMERGENCY. THE EMERGENCY LANDING WAS ATTEMPTED FOLLOWING AN ENGINE FAILURE
THAT WAS THE RESULT OF A TOTAL COMPRESSOR FAILURE. THE COMPRESSOR FAILURE WAS CAUSED BY A FATIGUE FAILURE OF THE
SIXTH STAGE WHEEL WHICH SEPARATED. THE FAILURE WAS INITIATED DUE TO A CASTING INCLUSION IN THE WHEEL WHICH WAS NOT
DETECTED DURING THE MANUFACTURING PROCESS.

File No 960 1	1/09/89 S. TI	MBALIER 75,GM	A/C Reg	g. No. N27555		Time (Lcl) -	- 1313 CS	Т
Basic Information Type Operating Certifica	ate-ON-DEMAND AI	R TAXI	Aircraft			Injur	ries	
			DESTROYE	D	Fatal	Serious	Minor	None
Type of Operation	-POSITIONING		Fire		ew O	0	1	0
Flight Conducted Under			NONE	Pa	ass O	0	0	0
Accident Occurred During	g -LANDING							
-Aircraft Information								
Make/Model - BELL 206				ISON 250-C28B		Installed/		
Landing Gear - EMERGENO	CY FLOAT					Stall Warnir	ng System	- NO
Max Gross Wt - 4050		Engine Type						
No. of Seats - 7		Rated Powe	r - 5	500 HP				
-Environment/Operations Inf	formation							
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing - NO REC	CORD OF BRIEFING				ON AI	RPORT		
Method - N/A		SHIP SHOA	L 114,GM					
Completeness - N/A		Destination			Airport 1	Data		
Basic Weather - VMC		S. T. 161	,GM		S.T.			
Wind Dir/Speed- 020/01							- UNK/NR	
Visibility - 4.0		ATC/Airspace				y Lth/Wid -		
Lowest Sky/Clouds -				COMPANY (VFR)		y Surface ·		00D
Lowest Ceiling -					Runwa	y Status -	- DRY	
Obstructions to Vision	n- NONE	Type Apch/L	ndg -	STRAIGHT-IN				
Precipitation				PRECAUTIONARY	LANDING			
Condition of Light	- DAYLIGHT							
Personnel Information								
Pilot-In-Command		Age - 34		Medical Certifi			D WAIVERS	/LIMIT
Certificate(s)/Rating(s	s)	Biennial Flight R	eview		light Time (1			
COMMERCIAL, ATP		Current	- YES	Total - Make/Model-	2520		4 Hrs - U	•
ME LAND		Months Since	- 6	Make/Model-	- 205	Last 30	Days-	70
		Aircraft Type	- 206L-1	Instrument-		Last 90		
ME LAND HELICOPTER				Multi-Ena	. 10	Dotono		222
		,		Multi-Eng -	10	ROTOFCI	raft -	2320

			Time (Lcl) - 1313 CST
AIRFRAME/COMPONEN CRUISE - NORMAL	IT/SYSTEM FAILURE/MALFUNC	TION	
•	· · · · · · · · · · · · · · · · · · ·		
LOSS OF CONTROL - LANDING - FLARE/1	· IN FLIGHT OUCHDOWN		
(NONRESIDENTIAL)			
	CRUISE - NORMAL CONTROL, TAIL ROT CONTROL, TAIL ROT	CRUISE - NORMAL CONTROL, TAIL ROTOR CONTROL - FAILURE, TOT CONTROL, TAIL ROTOR CONTROL - UNDETERMINE LOSS OF CONTROL - IN FLIGHT LANDING - FLARE/TOUCHDOWN IN FLIGHT COLLISION WITH OBJECT LANDING - FLARE/TOUCHDOWN (NONRESIDENTIAL)	CONTROL, TAIL ROTOR CONTROL - FAILURE, TOTAL CONTROL, TAIL ROTOR CONTROL - UNDETERMINED LOSS OF CONTROL - IN FLIGHT LANDING - FLARE/TOUCHDOWN IN FLIGHT COLLISION WITH OBJECT LANDING - FLARE/TOUCHDOWN (NONRESIDENTIAL)

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE LOSS OF CONTROL OF THE HELICOPTER DUE TO AN UNDETERMINED FAILURE OF THE TAIL ROTOR CONTROL SYSTEM.

Type of Operation -BLN RALLY Fire Crew 0 0 1 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 2 Accident Occurred During -CLIMB	File No 866 8/08/89 INDI	ANOLA,IA	A/C Reg	. No. N2210H	Т	ime (Lcl)	- 0800 CDT	
Type of Operation		AL AVIATION)		9		•		
Filight Conducted Under								None
Accident Occurred During -CLIMB Aircraft Information Make/Model - BALLOON WORKS FIREFLY-7							•	0
Aircraft Information Make/Model - BALLOON WORKS FIREFLY-7			NONE	Pas	s 0	0	2	0
Make/Model - BALLOON WORKS FIREFLY-7	Accident Occurred During -CLIMB							
Landing Gear - N/A Number Engines - N/A Stall Warning System - NO Max Gross Wt - 1640 Engine Type - N/A Environment/Operations Information Weather Data Itinerary Airport Proximity Wx Briefing - UNK/NR Last Departure Point OFF AIRPORT/STRIP Method - IN PERSON INDIANOLA, IA Completeness - FULL Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- 290/005 KTS ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model 37 Last 30 Days - 17 Instrument Rating(s) - NONE Instrument Rating(s) - NONE Instrument Rating(s) - NONE Narrative EPLT SAID THE ACONT OCCURED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.	Aircraft Information							
Max Gross Wt - 1640 No. of Seats - UNK/NR Rated Power - N/A No. of Seats - UNK/NR Rated Power - N/A Environment/Operations Information Weather Data Itinerary Wx Briefing - UNK/NR Last Departure Point Method - IN PERSON INDIANOLA, IA Completeness - FULL Destination Basic Weather - WKC LOCAL Wind Dir/Speed-290/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 25000 FT SCATTERD Type of Flight Plan - NONE Runway Lith/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERD Type of Flight Plan - NONE Obstructions to Vision - NONE Precipitation NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE Age - 37 Medical Certificate - NO MEDICAL Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 Instrument Rating(s) - NONE Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.		7 Eng Make/M	odel - N/A		ELT	Installed/	Activated	- NO -N/A
No. of Seats - UNK/NR Rated Power - N/A Environment/Operations Information Weather Data Itinerary Airport Proximity Wx Briefing - UNK/NR Last Departure Point OFF AIRPORT/STRIP Method - IN PERSON INDIANOLA, IA Completeness - FULL Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- 290/005 KTS Visibility - 15.0 SM ATC/Airspace Runway Ith/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE	Landing Gear - N/A	Number Eng	ines - N/A		S	itall Warnir	ng System	- NO
Environment/Operations Information Weather Data Itinerary Airport Proximity Wx Briefing - UNK/NR Last Departure Point OFF AIRPORT/STRIP Method - IN PERSON INDIANOLA,IA Completeness - FULL Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- 290/005 KTS Runway Ident - N/A Visibility - 15.0 SM ATC/Airspace Runway Ident - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Siene 11 Make/Model 37 Last 30 Days- 17 Instrument Rating(s) - NONE Instrument Rating(s) - NONE Instrument Rating(s) - NONE FREE BALLOON Aircraft Type - FIREFLY Instrument- O Last 90 Days- 17 Instrument Rating(s) - NONE FIGHT AGNOTIONAL CLASSICS WITH OTHER HOT AIR BALLOONISTS.	Max Gross Wt - 1640	Engine Typ	e - N/A					
Weather Data Itinerary	No. of Seats - UNK/NR	Rated Powe	r - N/A					
Weather Data Itinerary	Environment/Operations Information							
Wx Briefing - UNK/NR	Weather Data	Itinerarv			Airport	Proximity		
Method - IN PERSON INDIANOLA,IA Completeness - FULL Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- 290/005 KTS Runway Ident - N/A Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE	Wx Briefina - UNK/NR	_	ure Point				P	
Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 290/005 KTS Visibility - 15.0 SM ATC/Airspace Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE Current - YES Outside Additionable Age - 37 Months Since - 11 Months Since - 11 Months Since - 11 Make/Model - 37 Last 30 Days - 1 Instrument Rating(s) - NONE Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.					0	,		
Basic Weather - VMC			,		Airmort D)ata		
Wind Dir/Speed- 290/005 KTS Visibility - 15.0 SM ATC/Airspace Runway Ident - N/A Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument O Last 90 Days - 17 Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.					Allpoit	, a ta		
Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - N/A Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model- 37 Last 30 Days- 1 FREE BALLOON Aircraft Type - FIREFLY Instrument- O Last 90 Days- 17 Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.		200712			Runway	Ident -	- N/Δ	
Lowest Sky/Clouds - 25000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - N/A Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE		ATC/Airspace					,	
Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - N/A Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model- 37 Last 30 Days- 1 FREE BALLOON Aircraft Type - FIREFLY Instrument- O Last 90 Days- 17 Instrument Rating(s) - NONE Narrative TE PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.			oht Plan - I	NONE			* .	
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model- 37 Last 30 Days- 1 FREE BALLOON Aircraft Type - FIREFLY Instrument- O Last 90 Days- 17 Instrument Rating(s) - NONE Narrative IE PLT SAID THE ACONT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.	• • • • • • • • • • • • • • • • • • •						*.	
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - O Last 90 Days - 17 Instrument Rating(s) - NONE Narrative HE PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.					Kariway	Jiaias	N/ A	
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command		Type Apeny L	riag i	VOIVE				
Personnel Information Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE Narrative HE PLT SAID THE ACONT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.	·							
Pilot-In-Command Age - 37 Medical Certificate - NO MEDICAL Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE Narrative TE PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.								
Certificate(s)/Rating(s) PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model - 37 Last 30 Days - 1 FREE BALLOON Aircraft Type - FIREFLY Instrument - 0 Last 90 Days - 17 Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.								
PRIVATE Current - YES Total - 39 Last 24 Hrs - 1 Months Since - 11 Make/Model- 37 Last 30 Days- 1 FREE BALLOON Aircraft Type - FIREFLY Instrument- 0 Last 90 Days- 17 Instrument Rating(s) - NONE Narrative E PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.								
Months Since - 11 Make/Model- 37 Last 30 Days- 1 FREE BALLOON Aircraft Type - FIREFLY Instrument- 0 Last 90 Days- 17 Instrument Rating(s) - NONE						•		
FREE BALLOON Aircraft Type - FIREFLY Instrument- O Last 90 Days- 17 Instrument Rating(s) - NONE	PRIVATE		-					1
Instrument Rating(s) - NONE Narrative IE PLT SAID THE ACDNT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.								1
	FREE BALLOON	Aircraft Type	- FIREFLY	Instrument-	0	Last 90	0 Days-	17
HE PLT SAID THE ACONT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.	Instrument Rating(s) - NONE							
E PLT SAID THE ACONT OCCURRED WHILE HE WAS PARTICIPATING IN "THE NATIONAL CLASSICS" WITH OTHER HOT AIR BALLOONISTS.								
	E PLT SAID THE ACONT OCCURRED WHILE HE WAS							
STATED THAT WHILE ASCENDING, THE BALLOON ENCOUNTERED WIND SHEAR THAT TOOK IT OFF COURSE TOWARD A TALL TV TOWER.								
BSEQUENTLY, THE BALLOON COLLIDED WITH THE TOWER AT ABOUT THE 190 FT LEVEL, THEN IT DESCENDED UNCONTROLLABLY TO		FOWER AT ABOUT THE	190 FT LEVEI	L, THEN IT DESC	ENDED UNCON	ITROLLABLY T	TO	
E GROUND.	E GROUND.							

File No. - 866 8/08/89 INDIANOLA, IA A/C Reg. No. N2210H Time (Lc1) - 0800 CDT IN FLIGHT COLLISION WITH OBJECT Occurrence #1 Phase of Operation CRUISE Finding(s) 1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 2. CLIMB - INITIATED -3. WEATHER CONDITION - UNFAVORABLE WIND 4. WEATHER CONDITION - WINDSHEAR 5. OBJECT - TOWER, MARKED 6. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN CLEARANCE FROM THE TV TOWER DUE TO IMPROPER IN-FLIGHT PLANNING/DECISION. UNFAVORABLE WIND/WINDSHEAR AND THE TALL TOWER WERE CONTRIBUTING FACTORS.

File No 924 3/18/89 ROCKFO	ORD, IL A/C	Reg. No. N52634	7	ime (Lcl) -	1638 CS	Γ
Basic Information Type Operating Certificate-NONE (GENERAL		aft Damage	F . 4 - 7	Injur		
T To C Occ 11's DEDCOMA		TANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Cre		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pas	ss 0	0	0	1
Aircraft Information						
Make/Model - CESSNA 177RG	Eng Make/Model -	LYCOMING IO-360-A1E	36D ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -	1	Ç	Stall Warnir	g System	- YES
Max Gross Wt - 2800	Engine Type -	RECIP-FUEL INJECTED)			*
No. of Seats - 4	Rated Power -	200 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poi	nt	ON AIF	•		
Method - N/A	MILWAUKEE.WI					
Completeness - N/A	Destination		Airport [)ata		
Basic Weather - VMC	ROCKFORD, IL		•	R ROCKFORD		
Wind Dir/Speed- 300/012 KTS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				30	
Visibility - 8.0 SM	ATC/Airspace			/ Lth/Wid -		100
Lowest Sky/Clouds - UNK/NR	Type of Flight Pla	n - NONE		/ Surface -		
Lowest Ceiling - 25000 FT BROK					WET	
Obstructions to Vision- NONE	Type Apch/Lndg	- STRAIGHT-IN		•		
Precipitation - SNOW	. , po . , po. ,	FULL STOP				
Condition of Light - DAYLIGHT		,				
Personnel Information	4.00	M		NEDTON NO	. LATVEDO	/
Pilot-In-Command	Age - 30				WAIVERS,	/ LIMII
Certificate(s)/Rating(s)	Biennial Flight Review		ight Time (F	•		_
PRIVATE	Current - YES	Total -		Last 24		0
SE LAND	Months Since - 11	Make/Model-	18	Last 30		4
	Aircraft Type - C-15		5	Last 90	Days-	13
		Multi-Eng -	2			
Instrument Rating(s) - NONE						
E MAIN LANDING GEAR COLLAPSED DURING THE RO	LIGHT OF A FULL STOP LAND	THE HYDRALLITC	DOWED DACK	LINIT HAD BE	FN	
PLACED RECENTLY. THIS WAS ONLY THE SECOND F						
SERVOIR WAS SLIGHTLY LESS THAN HALF FULL. G						^
SERVUIR WAS SLIGHTLY LESS THAN HALF FOLL. GI UID LEVEL EXISTENT IN RESERVOIR. NORMAL GEAL					IIIDKAULI	
	Z LOMOLION MAS OBLAINED A	I I FY KESEKANTK MAS	SEKATOED II	DERAITING		
PACITY.						

3/18/89 A/C Reg. No. N52634 File No. - 924 ROCKFORD.IL Time (Lcl) - 1638 CST ______

Occurrence #1 Phase of Operation LANDING - ROLL

MAIN GEAR COLLAPSED

Finding(s)

- 1. HYDRAULIC SYSTEM, RESERVOIR LOW LEVEL
- 2. GEAR DOWN AND LOCKED NOT POSSIBLE PILOT IN COMMAND
- 3. HYDRAULIC SYSTEM, PUMP STARVATION
- 4. MAINTENANCE, INSTALLATION PERFORMED OTHER MAINTENANCE PSNL
- 5. MAINTENANCE, SERVICE OF AIRCRAFT INADEQUATE OTHER MAINTENANCE PSNL
- 6. EMERGENCY PROCEDURE NOT PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE INADEQUATE SERVICING OF THE HYDRAULIC FLUID BY MAINTENANCE PERSONNEL AND THE PILOT'S FAILURE TO EXTEND THE LANDING GEAR MANUALLY.

File No 847 4/25/89 CA	HOKIA,IL A/C I	Reg. No. N5498B	Т	ime (Lcl) -	1750 CST	
-Basic Information Type Operating Certificate-ON-DEMAND	AIR TAXI Aircra	ft Damage		Injur	ies	
,, , , , , , , , , , , , , , , , , , ,	SUBSTA	ANTIAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTION		Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 152		COMING 0-235-L2C		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			tall Warnin	g System	- YES
Max Gross Wt - 1670		ECIPROCATING-CARBURE	FOR			
No. of Seats - 2	Rated Power -	110 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Poin	t	ON AIR	PORT		
Method - TELEPHONE	VICHY, MO		_			
Completeness - WEATHER NOT PERTIN		•	Airport D		0.45146	
Basic Weather - VMC	SAME AS ACC/INC			IS DOWNTOWN		
Wind Dir/Speed- 190/009 KTS	ATO / A :				30R	76
Visibility - 12.0 SM	ATC/Airspace	1/50		Lth/Wid -		75
Lowest Sky/Clouds - 15000 FT St Lowest Ceilina - NONE	T			Surface -		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg	- TRAFFIC PATTERN	Runway	Status -	DRY	
	Type Apch/ Lhdg	FULL STOP		* .		
Precipitation - NONE Condition of Light - DAYLIGHT		FULL STOP				
-Personnel Information Pilot-In-Command	4.0	Medical Certificat	- \/A TD	MEDICAL NO	WATVEDC /	LTARTT
	Age - 19 Biennial Flight Review		t Time (H		WAIVERS/	LIMII
Certificate(s)/Rating(s) STUDENT		Total -		Last 24	Hnc -	4
STODENT	Months Since - N/A	Make/Model-	40	Last 30	Dave-	14
	Aircraft Type - N/A	Instrument-	0	Last 90	Days-	14
	ATTICIATE Type N/A	This craillent	O	Last 50	Days	1~4
Instrument Rating(s) - NONE						
Namativa						
-Narrative STUDENT PLT WAS LANDING ON RWY 30 WITH	A Y-WIND EDOM 190 DEC AT 9 P	TS HE DEDODTED THAT	DUDING T	HE LANDING	HЕ	
		IS. HE REFORTED THAT	DOKTING I	IL LANDING,	116	
ST CONTROL OF THE ACFT & IT SUBSEQUENTLY						

4/25/89 CAHOKIA, IL A/C Reg. No. N5498B Time (Lc1) - 1750 CST File No. - 847

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

1. WEATHER CONDITION - CROSSWIND

- 2. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 3. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 4. GROUND LOOP/SWERVE UNCONTROLLED -
- 5. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

Occurrence #2

Phase of Operation LANDING - ROLL

NOSE OVER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE STUDENT PILOT AND HIS FAILURE TO MAINTAIN DIRECTIONAL CONTROL. THE CROSSWIND AND THE STUDENT'S LACK OF TOTAL EXPERIENCE WERE CONTRIBUTING FACTORS.

File No 937 4/25/89 MARS	EILLES,IL A/	C Reg. No. N852	243 	Ti 	me (Lc1)	- 1800 CD	Г
Basic Information Type Operating Certificate-NONE (GENER		raft Damage	_			uries	
Time of Origination DERCONAL		STANTIAL		atal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire		Crew	0	0	1	1
Accident Occurred During -TAKEOFF	NON	IE	Pass	0	0	0	1
Aircraft Information							
Make/Model - AERONICA 7AC	Eng Make/Model -		-75-8				- YES-UNK/
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -				all Warn	ing System	- NO
Max Gross Wt - 1220	9 ,.	RECIPROCATING	-CARBURETOR	₹			
No. of Seats - 2	Rated Power -	65 HP					
Environment/Operations Information	*						
Weather Data	Itinerary				roximity		
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	· · · · · · · · · · · · · · · · · · ·	oint		OFF AIR	PORT/STR	IP	
Completeness - N/A	MARSEILLES,IL		Λ	D-	4-		
Basic Weather - VMC	Destination LOCAL		AII	rport Da	ta		
Wind Dir/Speed- 070/009 KTS	LOCAL			Dunyay	Ident	- 27	
Visibility - 7.0 SM	ATC/Airspace					- 2000/	50
	N BKN Type of Flight Pl	an - NONE				- GRASS/TI	
Lowest Ceiling - NONE	Type of Clearance				Status		31(1
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE		Kariway	Status	DKI	
Precipitation - NONE	Type Apeny Endg	140142					
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 43	Medical Cer	rtificate -	- VALID	MEDICAL-	WAIVERS/LI	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		Flight 1				
PRIVATE	Current - YES	Total	- 58	30	Last :	24 Hrs -	0
SE LAND	Months Since - 21	Make/Mo	odel- 13	37	Last :	30 Days-	19
	Months Since - 21 Aircraft Type - C-1	72 Instru	ment-	8	Last	90 Days-	45
Instrument Rating(s) - NONE							
				- -			
-Narrative	0000 5007 600 0101144	LIAC CURCTANITAA			TIIC TATI	Luce:	
E ACFT TOOK OFF TO THE WEST UPHILL FROM A AGGED POWER LINES DURING THE INITIAL CLIMB							
ELD. THE PLT REPORTED THE WIND AS CALM; HO							
OND THE DEPARTURE END OF THE RWY. THE POW							
O OF THE RWY. POST ACCIDENT INVESTIGATION					OI THE D	LEARIURE	

4/25/89 A/C Reg. No. N85243 Time (Lcl) - 1800 CDT File No. - 937 MARSEILLES, IL ______

Occurrence #1

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. OBJECT - WIRE, TRANSMISSION

- 2. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- OVER CONFIDENCE IN AIRCRAFT'S ABILITY PILOT IN COMMAND
- 4. WRONG RUNWAY SELECTED PILOT IN COMMAND
- 5. AIRCRAFT PERFORMANCE, CLIMB CAPABILITY EXCEEDED

Occurrence #2

HARD LANDING

Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PIC'S OVERCONFIDENCE IN THE ACCIDENT AIRCRAFT'S CLIMB PERFORMANCE AS HE ATTEMPTED TO TAKE OFF UP HILL AND OVER WIRES.

File No 936 5/21/89 COLUM	BIA,IL	A/C Reg	. No. N371FZ		Time (Lc1)	- 1300 CDT	
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft			Inju		
		SUBSTANT		Fatal			None
Type of Operation -PERSONAL		Fire	Cre		0	1	Ο
Flight Conducted Under -14 CFR 91		NONE	Pas	s 0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - ZENGEL RV-4	Ema Maka/M	ada1 1.VC0	MINO O 200 FOD	C1 T	Installed/	A = # # # = = =	VEC /VEC
Landing Gear - TAILWHEEL-ALL FIXED	Number Eng		MING 0-320-E2D		Stall Warni		
Max Gross Wt - 1500			PROCATING-CARBU		Stall Warrii	ng system	- NU
No. of Seats - 2		e - RECI r - 1		KEIUK			
No. or seats - 2	Rated Powe	l 1	30 RP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		ure Point			RSTRIP		
Method - N/A	COLUMBIA,						
Completeness - N/A	Destination			Airport [Data		
Basic Weather - VMC	LOCAL			COLUM			
Wind Dir/Speed- 110/011 KTS				Runwa	v Ident	- 21	
W = 14 + 3 + 4 = 0	ATC/Airspace				/ Lth/Wid	- 2400/	100
Lowest Sky/Clouds - UNK/NR SCAT	TERED Type of Fli	ght Plan -	NONE		y Surface		
Lowest Ceiling - BROKEN	Type of Cle	arance -	NONE		y Status		
Obstructions to Vision- NONE	Type Apch/L	nda -	FORCED LANDING	·			
Precipitation - NONE	2	J					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 64					AIVERS/LIN	UT I
Certificate(s)/Rating(s)	Biennial Flight R	eview	Flig	ght Time (A		4 11	
PRIVATE	Current	- YE2	Total - Make/Model-	15/	Last 2		1
SE LAND	Months Since	- 21	Make/Model- Instrument-	7	Last 3	O Days-	4
	Aircraft Type	- C-150	Instrument-	O	Last 9	O Days-	10
Instrument Rating(s) - NONE							
Narrative	ATELY AFTER LAST O	EE THE 21 T	LANDED CEDATOR	T ALICAD ON	THE CAME		
THE ACFT EXPERIENCED AN ENGINE FAILURE IMMEDI RUNWAY BUT WAS UNABLE TO STOP IN THE DISTANCE						T1.15	
END OF THE RUNWAY. POST ACCIDENT INVESTIGATION							
						CCVC	
AND HAD BEEN ROUTED ADJACENT TO AN EXHAUST PI						VE	
RESULTED IN FUEL PRESSURE FLUCTUATIONS, HIGH				ED RI HEVA	Y BLACK SMU	KE	
COMING FROM THE EXHAUST PIPES. THE BOOST PUMP	SEEMED IN HAVE NO	EFFECT UN	IME PRUBLEM.				

File No. - 936 5/21/89 COLUMBIA, IL A/C Reg. No. N371FZ Time (Lcl) - 1300 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FUEL SYSTEM, LINE - OVERTEMPERATURE 2. MAINTENANCE, INSTALLATION - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation TAKEOFF - INITIAL CLIMB Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - DITCH Occurrence #4 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE IMPROPER ROUTING OF ENGINE FUEL LINES RESULTING IN OVER TEMPERATURE OF THE LINES WHICH RESULTED IN THE FUEL FLOW TO CARBURETOR TO FLUCTUATE AND CAUSE OVER RICH CONDITION AND LOSS OF ENGINE POWER.

Basic Information Type Operating Certificate-NONE (GENER	ΔΙ ΔΥΤΔΤΤΩΝΊ	Aircraft Damage		Injur	ries	
Type operating out threate none (dent	AL AVIATION)	DESTROYED		al Serious		None
Type of Operation -PERSONAL		Fire	Crew		0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		ON GROUND	Pass	1 0	0	0
ircraft Information						
Make/Model - RUSCHKE STARDUSTER TOO		del - LYCOMING 0-3	320-A2B	ELT Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - UNK/NR	Number Engi Engine Type	nes - - RECIPROCATI	NG-CARBURETOR	Stall Warnir	ig system	- UNK/N
No. of Seats - 2		- 150 HP	•			
invironment/Operations Information						
Meather Data	Itinerary	n - D - t - t		ort Proximity		
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	G Last Departu MCHENRY,IL		UN	AIRPORT		
Completeness - N/A	Destination		Airpor	rt Data		
Basic Weather - VMC	SAME AS AC	C/INC		ENWOOD/WONDER	LAKE	
Wind Dir/Speed- 100/005 KTS				nway Ident -		
Visibility - 10.0 SM	ATC/Airspace	In I. D.I NONE		nway Lth/Wid -		36
Lowest Sky/Clouds - 8000 FT SCA Lowest Ceiling - 15000 FT BRO				nway Surface - nway Status -		
Obstructions to Vision- NONE	Type Apch/Lr	ida - NONE	Kai	iway Status	DKI	
Precipitation - NONE	3, - 3, - 3	3				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 51	Medical (Certificate - V	ALID MEDICAL-NO) WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Age - 51 Biennial Flight Re	view	Flight Time	e (Hours)		
ATP, FLT ENG	Current	- UNK/NR Tota	1 - 10000	Last 24	∤ Hrs - UN	IK/NR
SE LAND, ME LAND, SE SEA	Months Since Aircraft Type	- UNK/NR Make,	/Model- UNK/NR	Last 30) Days- UN	IK/NR IIZ/ND
	Africiant Type	Mult	/Model- UNK/NR rument- UNK/NR i-Eng - UNK/NR	Rotorcr	raft -	0
Instrument Rating(s) - AIRPLANE						
larrative						
ACCIDENT AIRPLANE STRUCK TERRAIN WHILE I	N AN OUT OF CONTROL	DESCENT SHORTLY A	FTER TAKEOFF ON	A PERSONAL		
HT. WITNESSES REPORTED A NORMAL TAKEOFF						

File No. - 976 5/22/89 MC HENRY,IL A/C Reg. No. N32GR Time (Lc1) - 1715 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND
2. STALL - INADVERTENT - PILOT IN COMMAND
3. OSTENTATIOUS DISPLAY - PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FLYING PILOTS FAILURE TO MAINTAIN AIRSPEED DURING AN OSTENTATIOUS DISPLAY RESULTING IN AN INADVERTENT STALL AND SUBSEQUENT COLLISION WITH TERRAIN.

File No 897 5/29/89 WHEEL	ING,IL A/C Reg	A/C Reg. No. N4763P Ti			Time (Lc1) - 2100 CDT			
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraft	Damage		Inj	uries			
	SUBSTANT	IAL	Fatal	Serious		None		
Type of Operation -BUSINESS	Fire	Crew	-	0	0	1		
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0		
Accident Occurred During -LANDING								
Aircraft Information								
Make/Model - CESSNA P210N	Eng Make/Model - CONI	INENTAL TSI0-520			d/Activated			
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		S	tall Warr	ning System	- YES		
Max Gross Wt - 4000	Engine Type - RECI							
No. of Seats - 6	Rated Power - 3	310 HP				:		
Environment/Operations Information								
Weather Data	Itinerary	:	Airport	Proximity	/			
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIR	PORT				
Method - N/A	DIXON, IL							
Completeness - N/A	Destination		Airport D	ata				
Basic Weather - VMC	SAME AS ACC/INC		PALWAU	KEE				
Wind Dir/Speed- 200/012 KTS			Runway	Ident	- 16			
Visibility - 20.0 SM	ATC/Airspace		Runway	Lth/Wid	- 5137/	100		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	IFR	Runway	Surface	- ASPHALT			
Lowest Ceiling - NONE	Type of Clearance -	UNK/NR	Runway	Status	- DRY			
Obstructions to Vision- NONE	Type Apch/Lndg -	FULL STOP						
Precipitation - NONE								
Condition of Light - NIGHT(DARK)								
Personnel Information								
Pilot-In-Command	Age - 49	Medical Certifica	te - VALID	MEDICAL.	-WAIVERS/LI	MIT		
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (F					
PRIVATE	Current - YES	Total -	2166	Last	24 Hrs -	3		
SE LAND, ME LAND	Months Since - 6	Make/Model-	160	Last	30 Days-	15		
	Aircraft Type - UNK/NR	Instrument-	321	Ľast	90 Days-	26		
		Multi-Eng -	1471	ş				
Instrument Rating(s) - AIRPLANE								
Narrative	DING OF AD DETDAGTED THE DIL	T CTATED THAT HE	EATLED TO	EVTEND				
E AIRCRAFT WAS LANDED AT NIGHT WITH THE LAN	DING GEAR RETRACTED. THE PILL	JI STATED THAT HE	FAILED IO	EXTEND	HE			
AR BEFORE LANDING.								

A/C Reg. No. N4763P File No. - 897 5/29/89 WHEELING, IL Time (Lc1) - 2100 CDT

Occurrence #1 GEAR NOT EXTENDED Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. LIGHT CONDITION - DARK NIGHT

2. GEAR EXTENSION - NOT PERFORMED - PILOT IN COMMAND

3. WHEELS UP LANDING - INADVERTENT - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO EXTEND THE LANDING GEAR, WHICH RESULTED IN A WHEELS-UP LANDING.

	_AKE,IL A/C F	eg. No. N8301F	T 	ime (Lcl) - 1	201 CDT	
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	_ AVIATION) Aircraf SUBSTA Fire NONE	t Damage NTIAL Crew Pass	Fatal O O	Injurie Serious O O	s Minor O O	None 1 0
-Aircraft Information Make/Model - PIPER PA-32-301 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3600 No. of Seats - 6				Installed/Act tall Warning		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance	- NONE	ON AIR Airport D CAMPBE Runway Runway Runway		3250/ SPHALT	40
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 46 Biennial Flight Review Current - YES Months Since - 20 Aircraft Type - C-172	Total -	nt Time (H 412 74	ours) Last 24 H	rs -	O 9 47
Instrument Rating(s) - AIRPLANE						
E PLT WAS ON A FLT TO PRACTICE TAKEOFFS & L. COUNTRY FLT. AS HE WAS LANDING, THE ACFT BOUTEVE SUFFICIENT FLARE TO AVOID TOUCHING DOTHE TO REST, NOSE DOWN, ON THE RWY. DRG THE FIT; HOWEVER, SINCE 5/20/89, ALL OF HIS FLT RACTERISTICS.	JNCED 3 TIMES. HE RPRTD THA WN NOSE WHEEL FIRST." SUBS PREVIOUS 90 DAYS, THE PLT H	AT ON THE 3RD TOUCH SEQUENTLY, THE NOSE HAD ACCRUED 3.5 HRS	DOWN, HE W GEAR COLL IN THIS M	AS "NOT ABLE APSED & THE A AKE & MODEL O	CFT	

File No. - 850 7/15/89 GRAYSLAKE, IL A/C Reg. No. N8301F Time (Lcl) - 1201 CDT ______

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. FLARE IMPROPER PILOT IN COMMAND
- 2. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND
- 3. GO-AROUND NOT PERFORMED PILOT IN COMMAND
- 4. LACK OF RECENT EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

Occurrence #2 NOSE GEAR COLLAPSED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

5. LANDING GEAR, NOSE GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER FLARE AND RECOVERY FROM A BOUNCED LANDING. AND HIS FAILURE TO GO AROUND (WHEN THERE WAS SUFFICIENT SPEED AND RUNWAY REMAINING). A CONTRIBUTING FACTOR WAS HIS LACK OF RECENT EXPERIENCE IN TYPE OF AIRCRAFT.

File No 855 8/04/89 PUTNAM	,IL A/G	C Reg. No. N60263	Т	ime (Lcl) -	1430 CD	Γ
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF			Fatal rew O ass O	Injur Serious O O		None O O
Aircraft Information Make/Model - CESSNA 150J Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2	Number Engines - Engine Type -	CONTINENTAL 0-200 1 RECIPROCATING-CAR 100 HP	S	Installed/Æ tall Warnir		- YES-UNK/NR - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 3000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po SAME AS ACC/INC Destination LOCAL ATC/Airspace ERED Type of Flight Pla Type of Clearance Type Apch/Lndg	an - NONE	OFF AI Airport D Runway Runway Runway	Ident - Lth/Wid - Surface -	- 27 - 1700/	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 39 Biennial Flight Review Current - UNK, Months Since - UNK, Aircraft Type - UNK,	/NR Total /NR Make/Model	light Time (H - 148		Hrs - Days-	/LIMIT 3 36 49
Instrument Rating(s) - NONE						
THE PLT RPRTD THAT WHEN HE TAXIED TO TAKEOFF, HUMIDITY. WHILE TAKING OFF, HE NOTED THE ACFT OBSTACLES. HE TURNED TO AVOID A HANGAR, BUT TH REVEALED THE CARBURETOR HEAT WAS IN THE FULL "ENG WAS EVIDENT. THE PLT RPRTD THE TEMP WAS 95	WOULD NOT GAIN AIRSPEED E ACFT SUBSEQUENTLY HIT ON" POSITION. NO PREIMP	AFTER LIFT-OFF OR TREES & CRASHED.	CLIMB SUFFIC A POST-ACDNT	IENTLY TO C	CLEAR E ACFT	

File No. - 855 8/04/89 PUTNAM,IL A/C Reg. No. N60263 Time (Lc1) - 1430 CDT

CCCUrrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND
2. WEATHER CONDITION - TEMPERATURE EXTREMES
3. WEATHER CONDITION - HIGH DENSITY ALTITUDE

CCCUrrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)
4. TERRAIN CONDITION - HIGH OBSTRUCTION(S)
5. OBJECT - TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF CARBURETOR HEAT BY THE PILOT WHICH RESULTED IN REDUCED POWER FOR TAKEOFF. THE OBSTRUCTIONS (HANGAR & TREES) AND WEATHER CONDITIONS WERE CONTRIBUTING FACTORS.

File No 921 8/13/89 BLOOM	INGTON, IL A/C Re	eg. No. N915Q	Т	ime (Lcl)	- 1843 CD	Γ
-Basic Information						
Type Operating Certificate-NONE (GENERAL				Inju		
	SUBSTAN	NTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - BEECHCRAFT A33	Eng Make/Model - COM	NTINENTAL IO-470-K	ELT	Installed/	Activated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1			tall Warni		
Max Gross Wt - 3150		CIP-FUEL INJECTED	· ·		ng dyd com	123
No. of Seats - 4	Rated Power -	225 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIR	•		
Method - N/A	BLOOMINGTON, IL		ON AIR	FUNI		
the state of the s	· · · · · · · · · · · · · · · · · · ·			- •		
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	ST. LOUIS,MO		BLOOMI	NGTON		
Wind Dir/Speed- 220/005 KTS			Runway	Ident	- 21	
Visibility - 3.000 SM	ATC/Airspace		Runway	Lth/Wid	- 3723/	100
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan -	- NONE	Runway	Surface	- ASPHALT	
Lowest Ceiling - 10000 FT BROK	EN Type of Clearance -	- VFR	Runway	Status	- DRY	
Obstructions to Vision- HAZE		- FORCED LANDING		0.0		
Precipitation - NONE	Type Aperly Eriag	TOROLD LANDING				
Condition of Light - DAYLIGHT						
						-
-Personnel Information						
Pilot-In-Command		Medical Certifica			AIVER2/ LI	NII
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (H			
COMMERCIAL	Current - YES	Total -		Last 2		2
SE LAND	Months Since - 4	Make/Model-	671	Last 3	Days-	12
	Months Since - 4 Aircraft Type - BE-33	Instrument-	354	Last 9	O Days-	35
Instrument Rating(s) - AIRPLANE						
DRTLY AFTER TAKEOFF, AS THE AIRCRAFT CLIMBE	TURNICH ARNIT 100 FEET AR	NE THE COULDE TH	E ENGINE !	OCT DOWED	AND	
PILOT MADE A FORCED LANDING. THE AIRCRAFT						
ROSS A GRASSY AREA AND INTO A FIELD OF MATUR			DAM LID MOD	MALIV WITTH		
ITAMINATION (WATER, DEBRIS, AND A RUST-LIKE	PARTICULATE) IN THE FUEL SY	SIEM. THE ENGINE	KAN UP NUK	MACCI MIIII		
	PARTICULATE) IN THE FUEL SY	SIEM. THE ENGINE	KAN UP NUK	MALLI WIIII		

21 8/13/89	BLOOMINGTON,IL	A/C Reg. No. N915Q	Time (Lcl) - 1843 CDT
		NICAL	
OURE - PERFORMED -	PILOT IN COMMAND		
FORCED LANDING DESCENT - EMERGE	NCY		
ON GROUND COLLIS LANDING - ROLL	ION WITH TERRAIN/WATER		
ON - CROP			
	LOSS OF ENGINE POTAKEOFF - INITIANTAMINATION IGHT - INADEQUATE UURE - PERFORMED - FORCED LANDING DESCENT - EMERGEN	LOSS OF ENGINE POWER(TOTAL) - NON-MECHA TAKEOFF - INITIAL CLIMB NTAMINATION .IGHT - INADEQUATE - PILOT IN COMMAND .URE - PERFORMED - PILOT IN COMMAND FORCED LANDING DESCENT - EMERGENCY ON GROUND COLLISION WITH TERRAIN/WATER LANDING - ROLL	LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL TAKEOFF - INITIAL CLIMB NTAMINATION .IGHT - INADEQUATE - PILOT IN COMMAND .DURE - PERFORMED - PILOT IN COMMAND FORCED LANDING DESCENT - EMERGENCY ON GROUND COLLISION WITH TERRAIN/WATER LANDING - ROLL

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A LOSS OF ENGINE POWER DUE TO CONTAMINATION (WATER, DEBRIS, AND RUST-LIKE PARTICLES) IN THE FUEL AND THE PILOT'S FAILURE TO DETECT THE CONTAMINATION DURING THE PRE-FLIGHT INSPECTION.

File No 881 9/28/89 PRING	CETON, IL	A/C Reg. No. N	N7818R	Т	ime (Lcl) -	0945 CD1	Г
Type OperationBusiness Type of Operation -Business Flight Conducted Under -14 CFR 91	·	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal O O	Injur Serious O O	ries Minor O O	None 1 1
Accident Occurred During -LANDING						·	
Aircraft Information Make/Model - BEECH 36 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3600 No. of Seats - 6	Eng Make/Mod Number Engin Engine Type Rated Power				Installed/ <i>L</i> tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 230/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departur BLOOMINGTON Destination SAME AS ACC ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnd	,IL /INC t Plan - NONE ance - NONE	C PATTERN	ON AIR Airport D PIPER Runway Runway Runway	ata	GRASS/TU	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE	Age - 58 Biennial Flight Rev Current -	iew YES Tota	Fligh al -	nt Time (H 2042	Last 24	Hrs - UN	NK/NR
SE LAND	Months Since - Aircraft Type -	BE-36 Inst	e/Model- trument- ti-Eng -	293	Last 30 Last 90) Days- UN) Days-	
Instrument Rating(s) - AIRPLANE							
Narrative HE PILOT REPORTED THERE WERE TREES AT THE NO PPROACH TO LAND. AFTER TOUCHING DOWN ON THE UFFICIENTLY TO STOP ON THE REMAINING RUNWAY ROSSED A ROAD, AND STOPPED NOSE DOWN IN A D	DRTH END OF THE RUNWA DAMP GRASS RUNWAY, H SUBSEQUENTLY, IT CO	Y & HE WAS A LITE APPLIED BRAKES	TTLE HIGH A	AND FAST O UNABLE TO	N THE FINAL	NIRCRAFT	

File No. - 881 9/28/89 PRINCETON, IL A/C Reg. No. N7818R Time (Lcl) - 0945 CDT Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) TERRAIN CONDITION - HIGH OBSTRUCTION(S) 2. AIRSPEED - EXCESSIVE - PILOT IN COMMAND 3. DISTANCE - MISJUDGED - PILOT IN COMMAND 4. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - GRASS 6. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - WET Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s)

7. TERRAIN CONDITION - DITCH

8. TERRAIN CONDITION - ROADWAY/HIGHWAY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT HAD EXCESSIVE AIRSPEED, MISJUDGED THE LANDING DISTANCE, AND DID NOT GO AROUND. THE HIGH OBSTRUCTIONS (TREES), WET RUNWAY, DITCH, AND UNEVEN TERRAIN (ROADWAY) WERE CONTRIBUTING FACTORS.

Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91			amage			ıries	
		SUBSTANTI		Fatal	Serious		None
		ire NONE	Cr		0	0	1
Accident Occurred During -TAXI		NUNE	Ра	SS 0	O	O	O
ircraft Information				05 51 7		· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Make/Model - CESSNA 140A Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Mode Number Engine		NENTAL C-90-1			Activated ing System i	
Max Gross Wt - 1500	Engine Type		ROCATING-CARB		stall warm	ing system	- 1E2
No. of Seats - 2	Rated Power		O HP	OKLIOK			
nvironment/Operations Information							
eather Data	Itinerary	D - 1			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure SAME AS ACC			ON AIF	RPORT		
Method - N/A Completeness - N/A	Destination	TNC		Airport [12+2		
Basic Weather - VMC	LOCAL			, ,	ER PEORIA		
Wind Dir/Speed- 280/009 KTS	EGOVE				/ Ident	- UNK/NR	
Visibility - 20.0 SM	ATC/Airspace				/ Lth/Wid	•	
Lowest Sky/Clouds - CLEAR	Type of Flight	t Plan - N	IONE	Runway	Surface	- ASPHALT	
Lowest Ceiling - NONE	Type of Cleara	ance - U	INK/NR	Runway	/ Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	g - N	IONE				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
ersonnel Information Pilot-In-Command	Age - 52	Me	dical Certifi	cate - VALII) MEDICAL -N	NO WAIVERS/	ITMIT
	Biennial Flight Rev			ight Time (H			
PRIVATE					•	24 Hrs - UNI	K/NR
SE LAND	Current - Months Since -	14	Make/Model-	1000		30 Days-	7
	Aircraft Type -	C-172	Instrument-	213	Last 9	00 Days-	16
Instrument Rating(s) - AIRPLANE							
arrative	AD DAME HE DESTE THE	NT AC LIE '	IAC TAVITAIC III	T T. T	1D 11E 11.7.4.5	יייי אייייי	
LANDING, THE PILOT TAXIED TO THE T-HANGA RAKES & THE TAIL STARTED COMING UP. HE WA							
NAKES & THE TAIL STARTED COMING OP. HE WA D HE WAS TAXIING WITH "A SLIGHT TAIL UP A							

File No. - 875 10/10/89 PEORIA, IL A/C Reg. No. N9658A Time (Lcl) - 1145 CDT

Occurrence #1 NOSE OVER

Phase of Operation TAXI - FROM LANDING

Finding(s)

1. WEATHER CONDITION - TAILWIND

- 2. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 3. BRAKES(NORMAL) IMPROPER USE OF PILOT IN COMMAND
- 4. LACK OF RECENT EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT. THE TAILWIND, THE PILOT'S IMPROPER USE OF BRAKES, AND HIS LACK OF RECENT EXPERIENCE IN THE TYPE OF AIRCRAFT WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 917 10/22/89 LANSIN	NG,IL A/C R	eg. No. N6736L	Т	ime (Lcl) -	1845 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION) Aircraf SUBSTA	t Damage	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI	Fire NONE	Crew Pass	0	0	0	1 0
Aircraft Information Make/Model - BEECH A36 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3600 No. of Seats - 6	Eng Make/Model - CO Number Engines - 1 Engine Type - RE Rated Power -	CIP-FUEL INJECTED 285 HP	S	Installed/A tall Warnir	g System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- Visibility - UNK/NR Lowest Sky/Clouds - N/A Lowest Ceiling - UNK/NR Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point KOKOMO,IN Destination LANSING,IL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Airport ON AIR Airport D LANSIN Runway Runway Runway	ata G MUNICIPAL	UNK/NR UNK/NR UNK/NR	
<pre>Personnel Information Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 49 Biennial Flight Review	Medical Certificate	e - VALID t Time (H		IVERS/LIM	ΙΤ
PRIVATE SE LAND	Current - YES Months Since - 5 Aircraft Type - B-35	Total - :	2200 355 K/NR	Last 24 Last 30 Last 90 Rotorcr	Days- Days-	1 18 50 0
Instrument Rating(s) - AIRPLANE						
Narrative HILE ATTEMPTING TO TAXI FROM THE RUNWAY TO TI REA TO GET TO THE MARKED TEMPORARY GRASS TAX ANDING GEAR DROPPED INTO AN UNMARKED HOLE WH CFT OUT OF THE HOLE BY USING POWER; HOWEVER: NGOING CONSTRUCTION, AND THE HOLE WAS ONE OF O RUNWAY EXPANSION. THE AIRPORT MANAGEMENT S' ERE REMOVED; THEY WERE "RESTORED" AGAIN THE DARK NIGHT" AT THE TIME OF THE ACCIDENT.	IWAY. AS HE TAXIED THROUGH ICH THE PLT ESTIMATED TO BE SUBSTANTIAL DAMAGE RESULTED SEVERAL CAUSED BY THE RELO TATED THAT THE HOLES HAD BE	THE GRASSY AREA, THI 23" DEEP. THE PLT V TO THE ACFT. THE AR CATION OF THE VASI OF EN "RESTORED" AFTER	E ACFT'S WAS ABLE RPT WAS I LIGHT INS THE VASI	LEFT MAIN TO TAXI THE N THE MIDST TALLATION D STRUCTURES	OF OUE	

g. No. N6736L Time (Lc1) - 1845 CDT File No. - 917 10/22/89 LANSING, IL A/C Reg. No. N6736L

Occurrence #1

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation TAXI - FROM LANDING

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- 2. OTHER AIRPORT/RUNWAY MAINTENANCE POOR AIRPORT PERSONNEL
- 3. NOTAMS NOT UNDERSTOOD PILOT IN COMMAND
- 4. LIGHT CONDITION DARK NIGHT
- 5. VISUAL LOOKOUT REDUCED PILOT IN COMMAND
- 6. TERRAIN CONDITION DITCH
- 7. UNSUITABLE TERRAIN ENCOUNTERED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S POOR JUDGEMENT IN ELECTING TO TAXI ACROSS AN UNMARKED AREA IN DARK NIGHT CONDITIONS, AT AN AIRPORT WITH KNOWN CONSTRUCTION IN PROGRESS AND THE AIRPORT MANAGEMENT'S FAILURE TO ASSURE THE INITIAL REPAIRS WERE SUFFICIENT TO CORRECT THE HOLES MADE DURING CONSTRUCTION.

File No 943 1/02/89 CARM	EL, IN	A/C Reg. No. N2CL		Τ.	ime (Lcl) -	1344 EST	
Basic Information Type Operating Certificate-NONE (GENER		rcraft Damage			Injur		
		STROYED			Serious		
Type of Operation -PERSONAL	Fi		Crew	1	0	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT)NE 	Pass	2	0	0	0
Aircraft Information						-	
Make/Model - PIPER PA-28-200		- LYCOMING IO-36	O-C1C		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines		E0755	St	tall Warnir	ng System -	YES
Max Gross Wt - 2650	Engine Type Rated Power	- RECIP-FUEL INJ - 200 HP	ECTED				
No. of Seats - 4	Rated Power	- 200 HP					
Environment/Operations Information Weather Data	Itinerary		٨	inpont [Proximity		
Wx Briefing - FSS	Last Departure	Point	A		RPORT/STRIF)	
Method - TELEPHONE	ZIONSVILLE, IN			J ,,,2,	5, 5		
Completeness - UNK/NR	Destination		Αi	irport Da	ata		
Basic Weather - IMC	ATHENS, GA						
Wind Dir/Speed- 280/008 KTS						· N/A	
Visibility - 1.000 SM Lowest Sky/Clouds - UNK/NR	ATC/Airspace Type of Flight A	Nion - TED			Lth/Wid - Surface -		
Lowest Ceiling - 300 FT OBS					Status -		
Obstructions to Vision- FOG	Type Apch/Lndg			Kariway	Status	N/ A	
Precipitation - SNOW	. , p = ,						
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 48 Biennial Flight Review	Medical Cer				VIVERS/LIM	T
Certificate(s)/Rating(s)	Biennial Flight Review	/ 	Flight	Time (Ho	ours)	Liling	1
PRIVATE SE LAND	Months Since - 2	:5 TOLAT Make/Mo	- 2 del-	10	Last 24) Dave-	2
SE LAND	Current - YI Months Since - 2 Aircraft Type - PA	128181 Instrum	ent-	69	Last 90	Days Days-	3
	•					•	
Instrument Rating(s) - AIRPLANE							
Narrative							
THE AIRCRAFT DEPARTED FOR THE X-COUNTRY FLT OF AIRCRAFT CONTROL FOLLOWED BY AN INFLIGHT	SEPARATION OF BOTH WING	AND THE EMPENNA	GE. SUBSE	QUENT IN	NVESTIGATIO	N	
REVEALED ICE BLOCKING THE PITOT/STATIC TUBE.							
AND THE PLT HAD RECEIVED A BRIEFING REGARDIN CHECKED DURING A POST ACCIDENT EXAM, THE PIT						IEN	
CHECKED DUKING A PUST ACCIDENT EXAM, THE PIT	OI HEAT SWITCH WAS FUUNI	IN THE UFF PUST	I TON AFTE	K ITE A	CIDENI.		

File No. - 943 1/02/89 CARMEL, IN A/C Reg. No. N2CL Time (Lc1) - 1344 EST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation CLIMB - TO CRUISE Finding(s) 1. ANTI-ICE/DE-ICE SYSTEM.PITOT ANTI-ICE - NOT ENGAGED 2. ICE/FROST REMOVAL FROM AIRCRAFT - NOT PERFORMED - PILOT IN COMMAND 3. WEATHER CONDITION - ICING CONDITIONS 4. HAZARDOUS WEATHER ADVISORY - NOT UNDERSTOOD - PILOT IN COMMAND Occurrence #2 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation UNKNOWN Finding(s) 5. DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S POOR UNDERSTANDING OF THE WEATHER FORECAST, HIS FAILURE TO UTILIZE THE PITOT HEAT IN ICING CONDITIONS AND
THE EXCEEDING OF THE STRESS LIMITS OF THE AIRCRAFT.

File No 953 3/26/89 CROT	HERSVILLE, IN	A/C Reg	. No. N27WF	Т	ime (Lcl) -	1530 CST	
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	AL AVIATION)	Aircraft [SUBSTANT: Fire NONE			Injur Serious O O	ries Minor 1 1	None O O
Accident Occurred During -LANDING							
Aircraft Information Make/Model - BEECH 95-B-55 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5125 No. of Seats - 6	_	Engines - 2 Type - RECIA	INENTAL IO-470- P-FUEL INJECTED GO HP	S	Installed/A tall Warnir	ng System -	YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR	Itinerary Last Depa LOUISVI Destinatio	•			Proximity RPORT/STRIP	,	
Basic Weather - VMC Wind Dir/Speed- 160/010 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 25000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAWN	, ,	ce Flight Plan - M Clearance - M		Runway Runway	/ Ident - / Lth/Wid - / Surface - / Status -	N/A	
Personnel Information Pilot-In-Command	Age - 52	` Ma	edical Certific	a+e - VALIC) MEDICAL-WA	TVFPS/LTM1	т
Certificate(s)/Rating(s)	Biennial Flight			ght Time (F		(IVENS/EIMI	
PRIVATE		- YES ce - UNK/NR	Total - Make/Model-		Last 24		1 2
SE LAND, ME LAND		pe - BE-95	Instrument- Multi-Eng -	79 207	Last 30 Last 90	Days-	10
Instrument Rating(s) - NONE							
Narrative DURING A LOCAL PLEASURE FLIGHT, WHILE IN NOR POWER ON THE LEFT (OPERATING) ENGINE TO "CUR LANDING IN AN OPEN FIELD. AS THE AIRCRAFT WA GEAR BOGGED DOWN, THEN COLLAPSED, AND THE AI REVEALED THAT THE PIN RETAINING PLATE CUT TH REVEALED THAT THE COUNTERWEIGHTS HAD NOT BEE RETAINING PLATE FROM CUTTING/WEARING THROUGH SINCE 1968, AND ON REBUILT ENGINES SINCE 197 LOGBOOK/MAINTENANCE INFORMATION PROVIDED BY	TAIL THE VIOLENT S ROLLING OUT AFT RCRAFT NOSED OVER ROUGH THE CRANKSH N "TUFTRIDED", A THE COUNTERWEIGHT 3-74. THE ACCIDENTE	VIBRATION OF TER TOUCHDOWN, R. POST-ACCIDEN HAFT COUNTERWE SURFACE HARDEN HT. THIS PROCES	THE AIRCRAFT" A IT ENCOUNTERED NT EXAMINATION IGHT, RELEASING NING PROCESS WH SS HAS BEEN REQ	ND EXECUTED A MUDDY AR OF THE RIGH IT. FURTHE ICH PREVENT UIRED ON NE	O A FORCED REA. THE NOS REA THE NOS REA THE NOS REA THE PIN REA THE PIN REA THE PIN		

File No. - 953 3/26/89 CROTHERSVILLE.IN A/C Reg. No. N27WF Time (Lcl) - 1530 CST

LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. ENG ASSEMBLY, CRANKSHAFT COUNTERWEIGHTS/VIB DAMPER FAILURE, TOTAL
- 2. MAINTENANCE, RECORDKEEPING POOR PILOT IN COMMAND
- 3. POWERPLANT FAILURE, TOTAL
- 4. EMERGENCY PROCEDURE PERFORMED PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Occurrence #3

NOSE OVER

Phase of Operation LANDING - ROLL

Finding(s)

- 5. TERRAIN CONDITION OPEN FIELD
- 6. TERRAIN CONDITION WET
- 7. LANDING GEAR, NOSE GEAR OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A FAILURE OF THE ENGINE DUE TO A CRANKSHAFT COUNTERWEIGHT FAILURE. THE PILOT PERFORMED EMERGENCY PROCEDURES AND EXECUTED A FORCED LANDING IN AN OPEN FIELD, WHERE THE AIRCRAFT ENCOUNTERED A LARGE MUDDY AREA, BOGGED DOWN AND NOSED OVER.

Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Air	rcraft Damage			Injuri	es	
type operating our tri reate mone (agree)		JBSTANTIAL		Fatal	Serious		None
Type of Operation -BUSINESS	Fir	`e	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NC	INE	Pass	0	0	0	0
Accident Occurred During -LANDING							
Aircraft Information							1.15.11.4 (5)
Make/Model - MAULE MX-7-235	Eng Make/Model		IO-8485		installed/Ac		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2300	Number Engines Engine Type		CARRIDE		tall Warning	System	- YES
No. of Seats - 4	Rated Power	- 235 HP	-CARBORI	LIUK			
		200 111					
Environment/Operations Information Weather Data	Itinerary			Airport F	Provimity		
Wx Briefing - FSS	Last Departure F	Point		ON AIR			
Method - TELEPHONE	NORTH VERNON, I			OII AIKI	J.C.		
Completeness - UNK/NR	Destination			Airport Da	ata		
Basic Weather - VMC	SAME AS ACC/IN	IC		INDIANA	APOLIS METRO	1	
Wind Dir/Speed- 230/013 KTS						14	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		75
Lowest Sky/Clouds - CLEAR	Type of Flight F				Surface -		
Lowest Ceiling - NONE	Type of Clearance		ATTERN	Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	FULL STOP					
Condition of Light - DAYLIGHT		1022 3101					
Personnel Information							
Pilot-In-Command	Age - 35	Medical Ce	ertifica [.]	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review			nt Time (Ho	ours)		
PRIVATE			-		Last 24		1
SE LAND	Months Since - UN	NK/NR Make/N	lode1-	36	Last 30		5
	Aircraft Type - UN	NK/NR Instru	ıment-	10	Last 90	Days-	15
Instrument Rating(s) - NONE			. .				
Narrative							
PLT WAS LANDING ON RWY 14 WITH A X-WIND							
AKING THE FINAL APCH WITH THE RIGHT WING							
EQUENTLY. IT DRIFTED OFF THE LEFT SIDE (IF THE DWY THE DIT STATE	THAT WHILE AT	TEMPTIN	G TO AVOID	RWY & VAST		

File No. - 848 6/17/89 INDIANAPOLIS,IN A/C Reg. No. N12VR Time (Lcl) - 1115 EDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - CROSSWIND

2. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

3. PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND

4. OBJECT - RUNWAY LIGHT

5. MANEUVER - INITIATED - 6. TERRAIN CONDITION - GROUND

7. CLEARANCE - MISJUDGED - PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER COMPENSATION FOR WIND CONDITIONS BY THE PILOT, HIS FAILURE TO MAINTAIN RUNWAY ALIGNMENT, AND HIS MISJUDGEMENT OF WINGTIP CLEARANCE ABOVE THE GROUND AS HE WAS MANEUVERING TO AVOID THE RUNWAY & VASI LIGHTS. THE CROSSWIND AND RUNWAY/VASI LIGHTS WERE CONTRIBUTING FACTORS.

File No 890 6/18/89 MICHIG	AN CITY, IN	A/C Reg. No.	N8824D	Time (Lcl) -	1218 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL	·	Aircraft Damag	Fata	Injur al Serious	Minor	
Type of Operation -SIGHT-SEEING Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Fire NONE		0 1 0 4	0 1	0 0
Aircraft Information Make/Model - PIPER PA-22 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2000 No. of Seats - 4	Number Eng Engine Typ	odel - LYCOMING ines - 1 e - RECIPROCA r - 150 HP	TING-CARBURETOR	ELT Installed/A		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 170/009 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 5500 FT SCATT Lowest Ceiling - 10000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	TERED Type of Flig EN Type of Cle	CC/INC ght Plan - NONE	ON Airpo MI: Ru Ru Ru	ort Proximity AIRPORT rt Data CHIGAN CITY nway Ident - nway Lth/Wid - nway Surface - nway Status -	4100/ ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 39 Biennial Flight R Current Months Since Aircraft Type	eview - YFS To	l Certificate - V Flight Tim tal - 210 ke/Model- UNK/NR strument- UNK/NR lti-Eng - UNK/NR	e (Hours) Last 24	Hrs - UN	K/NR
Instrument Rating(s) - NONE						
THE 4 SEAT ACFT TOOK OFF ON A SIGHT-SEEING FLT THE ACFT HAD A "HIGH ANGLE OF ATTACK" DRG TAKE STATED THE ACFT MADE A LEFT 180 DEG TURN AFTER DESCEND TO THE GROUND. NO PREIMPACT MECHANICAL THE ACFT'S WEIGHT AT THE TIME OF THE ACDNT WAS MANUAL WAS 2000 LBS.	EOFF & NEVER CLIMB R TAKEOFF; SUBSEQU L MALFUNCTION OF T	ED ABOVE ABOUT 19 ENTLY, HE FELT T HE AIRFRAME OR E	OO FT AGL. A REAR HE ACFT DROP, ENT NG WAS FOUND DRG	SEAT PASSENGER ER A LEFT BANK THE INVESTIGATI	& ON .	

File No. - 890 6/18/89 MICHIGAN CITY, IN A/C Reg. No. N8824D Time (Lcl) - 1218 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND
2. AIRCRAFT WEIGHT AND BALANCE - EXCEEDED - PILOT IN COMMAND
3. AIRSPEED - INADEQUATE - PILOT IN COMMAND
4. STALL - INADVERTENT - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO OBTAIN AND/OR MAINTAIN ADEQUATE AIRSPEED DURING TAKEOFF, WHICH RESULTED IN AN INADVERTENT STALL & COLLISION WITH THE GROUND. RELATED FACTORS WERE: FAILURE OF THE PILOT TO FOLLOW PROCEDURES/DIRECTIVES AND HIS OPERATION OF THE AIRCRAFT WITH EXCESSIVE GROSS WEIGHT.

Brief of Accident

es Minor None 1 0 0 0 tivated - YES/Y System - YES
Minor None 1 0 0 0 tivated - YES/Y System - YES
1 0 0 0 0
O O tivated - YES/Y System - YES
tivated - YES/Y System - YES
tivated - YES/Y System - YES
System - YES
AI/A
N/A N/A
N/A N/A
N/A N/A
N/ A
Hrs - 3
Hrs - 3 Days- 6 Days- 10
Days- 10

PLT HAD A BLOOD/ALCOHOL LVL OF O.16%. HE WAS DENIED A MED CERT AFTER HEART SURGERY IN 1975.

File No. - 851 7/11/89 LOGANSPORT, IN A/C Reg. No. N64087 Time (Lcl) - 1833 EDT IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. JUDGEMENT - POOR - PILOT IN COMMAND PHYSICAL IMPAIRMENT(ALCOHOL) - PILOT IN COMMAND 3. WEATHER CONDITION - THUNDERSTORM 4. FLIGHT TO ALTERNATE DESTINATION - ATTEMPTED -5. WEATHER CONDITION - CLOUDS 6. WEATHER CONDITION - LOW CEILING 7. WEATHER CONDITION - RAIN 8. WEATHER CONDITION - TURBULENCE (THUNDERSTORMS) 9. FLIGHT INTO KNOWN ADVERSE WEATHER - INADVERTENT - PILOT IN COMMAND SPATIAL DISORIENTATION - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 11. PRECAUTIONARY LANDING - PERFORMED -

---Probable Cause----

12. AIRCRAFT CONTROL - INADEQUATE - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
POOR JUDGEMENT OF THE PILOT DUE TO PHYSICAL IMPAIRMENT FROM CONSUMPTION OF ALCOHOL, HIS INADVERTENT FLIGHT INTO KNOWN
ADVERSE WEATHER, AND HIS INADEQUATE CONTROL OF THE AIRCRAFT DURING A PRECAUTIONARY LANDING. CONTRIBUTING FACTORS WERE:
THE WEATHER CONDITIONS AND THE PILOT BECOMING SPATIALLY DISORIENTED.

File No 882 8/05/89 VIN	NCENNES,IN	A/C Reg	. No. N736JM	T	ime (Lc1) -	1000 CDT	
Basic Information Type Operating Certificate-NONE (GENE	ERAL AVIATION)	Aircraft [Fatal	Injur Serious	ries Minor	None
Type of Operation -PERSONAL		Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	Ō	Ō	Ô	Ó
Accident Occurred During -LANDING				•	•	·	· ·
-Aircraft Information							
Make/Model - CESSNA R172K	Eng Make/	Model - CONT	INENTAL IO-360	ELT	Installed/A	ctivated	- YES/YE
Landing Gear - TRICYCLE-RETRACTABLE	Number En	gines - 1		S	tall Warnir	ng System	- YES
Max Gross Wt - 2550	Engine Ty	pe - RECII	P-FUEL INJECTED			-	
No. of Seats - 4	Rated Pow	er - 19	95 HP				
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEF:	NG Last Depar	ture Point		ON AIR	•		
Method - N/A	WASHINGT						
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	SAME AS			O'NEAL			
Wind Dir/Speed- 250/007 KTS	57E 7.6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				. 09	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		100
Lowest Sky/Clouds - N/A		ight Plan - I	NONE			GRASS/TL	
Lowest Ceiling - 5500 FT BF		earance - I			Status -		· IX I
Obstructions to Vision- NONE	Type Apch/		FULL STOP	Kanway	Jiaias	** - 1	
Precipitation - NONE	Type Apeny	Ling	OLL STOP				
Condition of Light - DAYLIGHT							
-Personnel Information	_						
Pilot-In-Command	Age - 76		edical Certifica			IVERS/LIM	IIT
Certificate(s)/Rating(s)	Biennial Flight		_	ht Time (H			
PRIVATE	Current	- YES	Total -		Last 24		1
SE LAND	Months Since		Make/Model-	200	Last 30		28
	Aircraft Typ	e - C-172	Instrument-	3	Last 90	Days-	28
Instrument Rating(s) - NONE							
Name - 4 - 1 - 2							
-Narrative	. HE ENTERED THE TO		TO 1 110 CUDOE				
PLT RPRTD HE MISREAD THE WIND SOCK WHEN							
/SOD RWY WITH A SLIGHT TAILWIND. ALSO, F							
KES, BUT WAS UNABLE TO STOP ON THE RWY.							
ESTIGATION, MAINWHEEL TIRE MARKS WERE FO		INNING AT MI	OFIELD, WHICH CO	NITHUED TO	WHERE THE	ACFT	
T OFF THE DEPARTURE END OF THE RWY & NOS	SED OVER.						
	<u> </u>						

File No. - 882 8/05/89 VINCENNES, IN A/C Reg. No. N736JM Time (Lc1) - 1000 CDT Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 1. WIND INFORMATION - MISREAD - PILOT IN COMMAND 2. WEATHER CONDITION - TAILWIND 3. WRONG RUNWAY - SELECTED - PILOT IN COMMAND 4. AIRSPEED - EXCESSIVE - PILOT IN COMMAND 5. PROPER TOUCHDOWN POINT - NOT ATTAINED -6. DISTANCE - MISJUDGED - PILOT IN COMMAND 7. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 8. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - GRASS 9. TERRAIN CONDITION - DITCH Occurrence #3 NOSE OVER Phase of Operation LANDING ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT HAD EXCESSIVE AIRSPEED, MISJUDGED THE LANDING DISTANCE, AND DID NOT GO AROUND. CONTRIBUTING FACTORS WERE: THE PILOT MISREAD WIND INFORMATION AND SELECTED THE WRONG RUNWAY. ALSO, THE TAILWIND AND DITCH WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 853 8/15/89 LAKE N	/ILLAGE,IN	A/C Rec	. No. N2484L		Time (Lcl)	- 1800 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION)	Aircraft SUBSTANT		Fatal	Inj Serious	uries Minor	None
Type of Operation -TEST FLT Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crev Pass		0	0	0
Aircraft Information							
Make/Model - CESSNA 172H Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Eng	gines - 1 pe - RECI er - 1	INENTAL 0-300-D PROCATING-CARBU 45 HP			/Activated ·	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/010 KTS Visibility - 3.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart LAKE VILL Destination LOCAL ATC/Airspace Type of Fli	ture Point _AGE,IN ight Plan - earance -		OFF A Airport Runwa Runwa Runwa	Proximity IRPORT/STR Data y Ident y Lth/Wid y Surface y Status	- N/A - N/A - N/A	
Personnel Information Pilot-In-Command	Age - 50		ledical Certifica	ate - FXPI	RED		
Certificate(s)/Rating(s)	Biennial Flight R	Review	Flig	ght Time (
PRIVATE SE LAND	Current Months Since	- YES - 15	Total - Make/Model-			24 Hrs - 30 Days-	0 0
-	Aircraft Type	∍ - C-172	Instrument-	7	Last	90 Days-	0
Instrument Rating(s) - NONE							
Narrative FTER AN ANNUAL INSPN, THE ACFT WAS FLOWN ON A F FUEL ON CONCRETE." AFTER TAKEOFF, HE FLEW DSS OF ENG POWER OCCURRED. FEARING THE ENG WO EEN CULTIVATED. WHILE LNDG, THE NOSEWHEEL DUG F WATER WAS FOUND IN THE GASCOLATOR & AN UNSPORMALLY DRG AN OPERATIONAL CHECK AFTER THE AC	A TEST FLT. THE PL WEST OF THE ARPT DULD LOSE ALL POWE G INTO SOFT TERRAL PECIFIED AMOUNT OF	_T RPRTD THA & WAS CIRCL ER, HE ELECT IN & THE ACF = WATER WAS	T DRG THE PREFLING AT AN ALT DIED TO LAND IN ALT DIED TO SED OVER. DIED DRAINED FROM TH	T, HE "DRA F APRX 12C N OPEN FIE RG AN INVE E LEFT FUE	O FT, WHEN LD THAT HA STIGATION,	A PARTIAL D RECENTLY 28 OUNCES	

Time (Lcl) - 1800 CDT File No. - 853 8/15/89 LAKE VILLAGE, IN A/C Reg. No. N2484L

Occurrence #1

LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL

Phase of Operation MANEUVERING

Finding(s)

1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

2. FUEL SYSTEM - CONTAMINATION

3. FLUID, FUEL - WATER

Occurrence #2 Phase of Operation DESCENT - EMERGENCY

FORCED LANDING

Occurrence #3 Phase of Operation LANDING - ROLL

NOSE OVER

Finding(s)

4. TERRAIN CONDITION - OPEN FIELD

5. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: WATER CONTAMINATION IN THE FUEL/FUEL SYSTEM AND INADEQUATE PREFLIGHT BY THE PILOT. SOFT TERRAIN IN THE EMERGENCY LANDING AREA WAS A CONTRIBUTING FACTOR.

-Basic Information							
Type Operating Certificate-ON-DEM	AND AIR TAXI	Aircraft Damage		E-+-1		uries	Mana
Name of Carrier -AJAX LI Type of Operation -NON SCI	HED DOMESTIC CARCO	DESTROYED	Crew	Fatal 1			None 0
Flight Conducted Under -14 CFR	TED, DUMESTIC, CARGO	ON GROUND			0	_	0
Accident Occurred During -DESCEN		UN GROUND	Pa55	U	O	O	O
Aircraft Information							
Make/Model - BEECH BE-18	Eng Make/Mo	del - P&W PT6A-20)	ELT	Installed	/Activated	- YES/NO
Landing Gear - TAILWHEEL-RETRACT		nes - 2		S	itall Warr	ing System	- YES
Max Gross Wt - 9300	Engine Type	- TURBOPROP					
No. of Seats - 2	Rated Power	· - 550 HP					
-Environment/Operations Information-							
Weather Data	Itinerary	ъ			Proximity		
Wx Briefing - NO RECORD OF BR				ON AIR	PURI		
Method - N/A Completeness - N/A	COVINGTON, Destination	KT		Airport D	10+0		
Basic Weather - VMC	DETROIT ME	TDO MT		CINCIN			
Wind Dir/Speed- 010/005 KTS	DETROIT ME	TRO, MI			Ident	- 18	
Visibility - 3.000 SM	ATC/Airspace					- 9501/	150
Lowest Sky/Clouds - CLEAR		ht Plan - IFR				- CONCRETI	
Lowest Ceiling - NONE	Type of Clea				Status		-
Obstructions to Vision- FOG		ndg - NONE		Kariway	3 (4 (43	DICT	
Precipitation - NONE	Type Apolly El	149					
Condition of Light - DAYLIGH	Т						
-Personnel Information							
Pilot-In-Command				te - UNK/N			
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Re	eview	Flig	ht Time (F	lours)		_
COMMERCIAL	Current	- YES Tota	al -	10560	Last	24 Hrs -	2
	Months Since	- 11 Make - BE-18S Ins	e/Model-	15	Last	30 Days-	12
SE LAND, ME LAND			triimant-	2200	125+		
	Aircraft Type		ti-Eng -		Last	90 Days-	15

File No. - 970 3/09/89 COVINGTON,KY A/C Reg. No. N3281T Time (Lc1) - 0617 EST

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. AIRSPEED - NOT POSSIBLE - PILOT IN COMMAND
2. FLIGHT CONTROL SURFACES/ATTACHMENTS - ICE
3. ICE/FROST REMOVAL FROM AIRCRAFT - NOT PERFORMED - PILOT IN COMMAND
4. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

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

Finding(s)
5. TERRAIN CONDITION - GROUND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

PILOT ATTEMPTED A TAKEOFF WITH COATING OF FROST ON THE AIRFRAME WHICH RESULTED IN A LOSS OF LIFT DURING CLIMBOUT.

File No 948 3/12/89 NEW	ORLEANS,LA A/C R	eg. No. N8369K	T i	me (Lc1) -	1117 CST	
Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	DESTRO Fire	t Damage YED Crew Pass	Fatal 1 3	Injuri Serious O O		None O O
Aircraft Information Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2325 No. of Seats - 4	Eng Make/Model - LY Number Engines - 1 Engine Type - RE Rated Power -		St	nstalled/Ac		
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 320/008 KTS Visibility125 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - OBSCURED Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point NEW ORLEANS,LA Destination JENNINGS,LA ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- IFR - IFR	Airport Da LAKEFRO Runway Runway Runway	PORT/STRIP ta NT	ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 63 Biennial Flight Review Current - UNK/NR Months Since - 3 Aircraft Type - UNK/NR	Make/Model- UN	t Time (Ho	ours)		
Instrument Rating(s) - AIRPLANE						
Narrative ST AFTER TAKEOFF FROM RUNWAY 36 RIGHT, THE KNOWLEDGED. HE WAS THEN TOLD TO CONTACT DE NTROL WHEN THE AIRCRAFT COLLIDED WITH THE IE WEATHER AT THE TIME WAS INDEFINATE, SKY RE FOUND DURING THE INVESTIGATION.	PARTURE CONTROL, WHICH HE AC WATER APPROXIMATELY 4,000' F	KNOWLEDGED. HE WAS EET BEYOND THE DEP	CALLING DE ARTURE END	PARTURE OF THE RUN	IWAY.	

File No. - 948 3/12/89 NEW ORLEANS,LA A/C Reg. No. N8369K Time (Lc1) - 1117 CST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT

Finding(s)

- 1. TERRAIN CONDITION WATER
- 2. WEATHER CONDITION FOG
- 3. WEATHER CONDITION OBSCURATION
- 4. PROPER CLIMB RATE NOT OBTAINED PILOT IN COMMAND
- 5. DIVERTED ATTENTION PILOT IN COMMAND
- 6. IFR PROCEDURE POOR PILOT IN COMMAND
- 7. DESCENT INADVERTENT PILOT IN COMMAND
- 8. VISUAL/AURAL PERCEPTION PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DIVERTING HIS ATTENTION FROM FLYING THE AIRCRAFT WHILE COMPLYING WITH THE DEPARTURE CONTROL INSTRUCTIONS, AND ALLOWING THE AIRCRAFT TO DESCEND INTO THE WATER.

File No 996 5/03/89 NEW IE	BERIA,LA A/C Re	g. No. N90619	Т	ime (Lc1) -	1901 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	_ AVIATION) Aircraft DESTROY Fire NONE			Injur Serious O O	ies Minor O O	None O O
Aircraft Information Make/Model - SMITH AEROSTAR 601 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5700 No. of Seats - 6		OMING IO-54O-F1A5 IP-FUEL INJECTED 290 HP		Installed/Adatall Warning		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 160/010 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 15000 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT			ON AIR Airport D ACADIA Runway Runway Runway	ata NA REGIONAL	CONCRETE	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Age - 53 Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Medical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ht Time (H 5079 1956 490	ours) Last 24 Last 30 Last 90	Hrs - UN	K/NR 46 73
Narrative WITNESSES SAW THE AIRPLANE DEPART AND LAST SAV WHAT THEY CALLED NORMAL TAKEOFF POWER. EVIDENCE TO THE GROUND, LEFT WING FIRST. EVIDENCE INDIC ENGINE WAS DEVELOPING SOMEWHAT LESS THAN TAKEO TOP EDGES OF THE PISTONS WITH NO CORRESPONDINC OPERATION AND SOME WAS FROM VERY RECENT OPERA OF THE PISTONS, NOTHING WAS FOUND TO INDICATE	CE INDICATED THAT THE AIRPLA CATED THAT THE RIGHT ENGINE OFF POWER. TEARDOWN OF THE L G MARKS ON THE CYLINDER WALL TION. THERE WAS NO TEARDOWN	NE THEN MADE A SH WAS DEVELOPING HI EFT ENGINE REVEAL S. SOME OF THIS E OF THE RIGHT ENGI	ARP LEFT T GH POWER W ED METAL E ROSION WAS NE. OTHER	URN AND DES HILE THE LE ROSION ON T FROM PREVI THAN THE ER	CENDED FT HE DUS	

File No. - 996 5/03/89 NEW IBERIA, LA A/C Reg. No. N90619 Time (Lcl) - 1901 CDT ______

Phase of Operation TAKEOFF - INITIAL CLIMB

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Finding(s)

- 1. ENGINE ASSEMBLY, PISTON ERODED
- 2. ENGINE INSTRUMENTS, MANIFOLD PRESSURE GAGE -
- 3. REMEDIAL ACTION ATTEMPTED PILOT IN COMMAND
- 4. DIVERTED ATTENTION PILOT IN COMMAND
- 5. PROPER CLIMB RATE NOT MAINTAINED PILOT IN COMMAND

IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN A PROPER CLIMB IMMEDIATELY AFTER TAKEOFF. CONTRIBUTING TO THE ACCIDENT WAS EXCESSIVE MANIFOLD PRESSURE INDICATIONS FOR THE LEFT ENGINE. THE PILOT'S DIVERTED ATTENTION IN DEALING WITH THAT CONDITION MOST PROBABLY RESULTED IN THE LOSS OF CONTROL.

File No 833 6/1	5/89 MORSE,LA	A/C	Reg. No. N8916H	I	Time (Lcl)	- 1630 CDT	
Type Operating Certificate Type of Operation Flight Conducted Under Accident Occurred During	-AERIAL APPLICATION -14 CFR 137	SUBS		Fatal Crew O Pass O			None 1 0
Aircraft Information Make/Model - GRUMMAN-SCI Landing Gear - TAILWHEEL- Max Gross Wt - 6075 No. of Seats - 1	HWEIZER G-164A ALL FIXED	Eng Make/Model - Number Engines - Engine Type - Rated Power -	1		T Installed/ Stall Warni		
	I D OF BRIEFING A UNK/NR SCATTERED NONE NONE NONE	tinerary Last Departure Poi SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	ın - NONE - NONE	OFF Airport Runw Runw Runw Runw	yay Ident yay Lth/Wid yay Surface	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	C M	35 Mial Flight Review Current - YES Months Since - 16 Mircraft Type - PA-1	Total Make/Mode	Flight Time - 4133 :1- 1635	(Hours) Last 2 Last 3	4 Hrs - O Days-	LIMIT 1 168 410
Instrument Rating(s)	- AIRPLANE						
Narrative THE AG ACFT WAS DEPARTING A PVT TO REDUCE POWER, THEN THE ENG LO DURING THE LANDING ROLL, THE WHE MINOR CRACK ON THE #5 CYLINDER, I	ST ALL POWER. THE PELS ENCOUNTERED SOF	PLT DUMPED THE CHEMI FT TERRAIN & THE ACF	CAL LOAD & MADE TO NOSED OVER LAN	A FORCED LAN	IDING IN A BE ENG REVEALE	AN FIELD. D ONLY A	

File No 8	33 6/15/89 MORSE,LA	A/C Reg. No. N8916H	Time (Lcl) - 1630 CDT
	LOSS OF ENGINE POWER TAKEOFF - INITIAL CLIMB		
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation			
Finding(s) 2. TERRAIN CONDITI	ON - SOFT		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. THE SOFT TERRAIN WAS A CONTRIBUTING FACTOR.

Basic Information Type Operating Certifica	+o-NONE (/	SENEDAL AVIATION)	Aircraft	- Damago			Inju	nico	
Type operating certifica	te-NONE (SENERAL AVIATION)	SUBSTAN			Fatal			None
Type of Operation	-PUBLIC	USE	Fire		Crew		0	1	0
Flight Conducted Under	-14 CFR	91	NONE		Pass	0	0	1	0
Accident Occurred During		Г 							
Aircraft Information									
Make/Model - PIPER PA			Make/Model - LYC	COMING 0-32	O-A2B		Installed/		
Landing Gear - TAILWHEE	L-ALL FIXI		er Engines - 1	TDDOCATING	CADDUD		tall Warni	ng System	- NU
Max Gross Wt - 1750 No. of Seats - 2			ne Type	150 HP	-CARBURI	IUK			
No. or Seats - 2		кате 	a power -	150 HP					
Environment/Operations Inf	ormation-					A	D		
Weather Data Wx Briefing - NO REC	000 OF BD	Itinera	ry Departure Point				Proximity RPORT/STRI	3	
Method - N/A	טאט טר פא.		ND CHENIER,LA			UFF AI	KPUKI/SIKII		
Completeness - N/A		Destin				Airport D	ata		
Basic Weather - VMC		LOC				Amport B	ata		
Wind Dir/Speed- 120/00	8 KTS		,,,_			Runwa∨	Ident	- N/A	
Visibility - 12.0		ATC/Air	space				Lth/Wid		
Lowest Sky/Clouds -	3000 F						Surface		
Lowest Ceiling -			of Clearance			Runway	Status	- HIGH VE	GETATION
Obstructions to Vision		Туре	Apch/Lndg -	FORCED LA	NDING				
Precipitation		-							
Condition of Light	- DAYLIGH	 							
Personnel Information Pilot-In-Command		Age - 4	7 .	Medical Ce	rtificat	te - VALID	MEDICAL-N) WATVERS	/
Certificate(s)/Rating(s)					nt Time (H			
PRIVATE	•	Current	ight Review - YES	Total	-	960	Last 2		NK/NR
SE LAND		Months	Since - 11	Make/M	lode1-	760	Last 3	Days-	23
		Aircraf	t Type - C-172	Instru	ment-	72	Last 9 Rotorc	Days-	55
				Multi-	Eng -	1	Rotorc	raft -	0
<pre>Instrument Rating(s)</pre>	- AIRPL	ANE							
Narrative									
PUBLIC AIRCRAFT WAS FLYING									
ORED, THE PILOT MADE A FOR	CED LANDI	NG ALONGSIDE A CAN	AL AND THE AIRPL	ANE NOSED	OVER TO	THE INVER	TED POSITI	ON.	
WAS FOUND IN THE FUEL SYS									

File No 9	39 8/30/89 GRAND CHENIER,LA	A/C Reg. No. N4423Z	Time (Lcl) - 1225 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(TOTAL) - NON-MECHA CRUISE - NORMAL	NICAL	
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	DESCENT - EMERGENCY		·
	IN FLIGHT COLLISION WITH TERRAIN/WATER LANDING - FLARE/TOUCHDOWN		
Finding(s) 2. TERRAIN CONDITI			
Occurrence #4 Phase of Operation	NOSE OVER LANDING - FLARE/TOUCHDOWN		
Probable Cause			
The National Transpo	rtation Safety Board determines that the I	Probable Cause(s) of this accid	lent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR UNDETERMINED REASONS.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircra	ft Damage		Injur	ies	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ANTIAL	Fatal	-	Minor	None
Type of Operation -INSTRUCTIONA		Crev		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	0
Aircraft Information	First Males (Marie)	ONT THE NEW TALL A CE O		F 4 - 1 2 1 / A		VEC /V
Make/Model - AERONCA 7AC Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - CO Number Engines -			Installed/A tall Warnin		
Max Gross Wt - 1220	3	ECIPROCATING-CARBUR		carr warmin	g System	140
No. of Seats - 2	Rated Power -	65 HP .				
Environment/Operations Information	T. t. inanany		A			
Veather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poin	-	Airport I ON AIR	Proximity		
Method - N/A	SAME AS ACC/INC	_	ON AIN	OKT		
Completeness - N/A	Destination		Airport Da			
Basic Weather - VMC Wind Dir/Speed- 150/004 KTS	SAME AS ACC/INC		MARYLAI		47	
Visibility - 5.0 SM	ATC/Airspace		•	Ident - Lth/Wid -	17 3000/	50
Lowest Sky/Clouds - 25000 FT SCAT	TERED Type of Flight Plan			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Condition of Light - DAYLIGHT						
Personnel Information						/
Pilot-In-Command Certificate(s)/Rating(s)	Age - 22 Biennial Flight Review	Medical Certifica	ite - VALID ght Time (H		WAIVERS/	LTMII
STUDENT	Current - N/A	Total -	18	Last 24	Hrs - UN	IK/NR
	Months Since - N/A	Total - Make/Model- Instrument-	18	Last 30	Days- UN	IK/NR
	Aircraft Type - N/A	Instrument-	0	Last 90	Days-	18
		Multi-Eng -	O	Rotorcr	art -	0
Instrument Rating(s) - NONE						
Narrative						
STUDENT PLT WAS ON HIS FOURTH SOLO FLIGHT					G AND	
HE PLT TRIED TO RECOVER, HE LOST DIRECTIO	NAL CONTROL. THE ACFT WENT	OFF THE RIGHT SIDE	OF THE RUI	DNA YAWN		

File No 9	5/19/89	INDIAN HEAD, MD	A/C Reg. No. N85715	Time (Lcl) - 1000 EDT	-
Occurrence #1 Phase of Operation		LONCHDOMN .			
Finding(s) 1. FLARE - IMPROPER	R - PILOT IN COMMAI				
Occurrence #2 Phase of Operation		- ON GROUND			
3. LACK OF TOTA	AL EXPERIENCE - PI	NADEQUATE - PILOT IN CO LOT IN COMMAND NED - PILOT IN COMMAND	MMAND		
Occurrence #3 Phase of Operation		ON WITH OBJECT			
Finding(s) 5. OBJECT - AIRCRAF	T PARKED				
Probable Cause					
		rd determines that the	Probable Cause(s) of this accide	ent was:	

PILOT FAILED TO MAINTAINED DIRECTIONAL CONTROL DURING RECOVERY FROM A HARD LANDING.

 -Basic Information Type Operating Certificate-NONE (GENERAL 	_ AVIATION) Aircra	ft Damage		Injur	ries	
Type approximg our trivial to mante (defice)	DESTR		Fatal			None
Type of Operation -PERSONAL	Fire	Cr	ew O	1	0	0
Flight Conducted Under -14 CFR 91	NONE	Pa	iss 0	0	0	0
Accident Occurred During -DESCENT						
-Aircraft Information	4	,		4		
Make/Model - SCHWEIZER I-26E	Eng Make/Model - N			Installed/		
Landing Gear - SKID	Number Engines - N		S	tall Warnir	ng Syste	m - UNK/NE
Max Gross Wt - 575	Engine Type - N	· .				
No. of Seats - 1	Rated Power - N	/ A 				
-Environment/Operations Information	Ttipopopy		Ainnon+	Proximity		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poin	+		Proximity RPORT/STRIA		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	CHURCHVILLE, MD		OFF AI	KPUKI/ SIKII	-	
Completeness - N/A	Destination		Airport Da	ata		
Basic Weather - VMC	LOCAL		х рол с в			
Wind Dir/Speed- 315/015 KTS	2007/2		Runwa∨	Ident -	- N/A	
Visibility - 15.0 SM	ATC/Airspace		Runway	Lth/Wid	- N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	Surface ·	- N/A	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status ·	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information		Madiaal Cambici	+-	MEDICAL W	ATVERS /	TAATT
Pilot-In-Command Certificate(s)/Rating(s)	Age - 62 Biennial Flight Review	Medical Certifi	ight Time (H		AIVERS/L	TIMITI
PRIVATE	Current - VES			Last 24	1 Hrs -	LINK /ND
SE LAND	Current - YES Months Since - 12	Make/Model-	7			
SE EAND	Aircraft Type - 225	Instrument-	. 0			
	ATTOTAL TYPE 225	1110 11 4011	Ü		5 54,5	-14.7.1
	· · · · · · · · · · · · · · · · · · ·					
Instrument Rating(s) - NONE						
	GLIDER PLT REALIZED THAT	HE COULD NOT OBTA	IN ENOUGH LI	FT TO RETU		. D
TACLES PRIOR TO REACHING THE FIELD. HE STA PPED SLIGHTLY. THE GLIDER THEN FLIPPED SHA	TED THAT THE GLIDER WAS DE	SCENDING TOWARD T	HE FIELD AND			us.

File No. - 938 5/28/89 CHURCHVILLE.MD A/C Reg. No. N1124S Time (Lc1) - 1930 EDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL

Finding(s)

- 1. WEATHER EVALUATION INADEQUATE PILOT IN COMMAND
- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 3. AIRSPEED INADEQUATE PILOT IN COMMAND
- 4. AIRCRAFT HANDLING NOT MAINTAINED PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO MAINTAIN ADEQUATE AIRSPEED DURING THE TURN FROM BASE TO FINAL APPROACH WHICH RESULTED IN THE WING CONTACTING THE GROUND AND THE GLIDER CARTWHEELING.

File No 856 6/19/89 OCEAN	CITY,MD A/C Re	eg. No. N9520X	Tin	ne (Lcl) -	1335 EDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL	SUBSTAN Fire	Crew	-	Injur Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	0
Aircraft Information Make/Model - CESSNA 210A Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2900 No. of Seats - 4	Eng Make/Model - COM Number Engines - 1 Engine Type - REG Rated Power -	NTINENTAL IO-470-E CIP-FUEL INJECTED 260 HP		nstalled/Ad all Warning		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed 100/005 KTS Visibility - 5.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC ATC/Airspace TERED Type of Flight Plan Type of Clearance		Airport Pr ON AIRPO Airport Dat OCEAN CI Runway I Runway I Runway S Runway S	DRT ta ITY Identth/Wid - Surface -	14 4070/ CONCRETE WET	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 73 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-210A	Total - Make/Model-	ht Time (Hou 4000 475 159	urs) Last 24 Last 30 Last 90	Hrs - Days-	6 14 35
Instrument Rating(s) - AIRPLANE						
TNarrative HE PLT RPRTD THAT DRG AN APCH TO LAND, HIS S HED FULL FLAPS ON THE APCH & LANDED ABOUT 1/ HED POWER TO RECOVER. HE CONTINUED THE LANDI HE END & WENT DOWN A SLOPE WHERE IT STRUCK A	3 OF THE WAY DOWN THE RWY. (NG, BUT WAS UNABLE TO STOP (ORG TOUCHDOWN, THE ON THE REMAINING R	ACFT BOUNCE WY. THE ACF	ED & THE PI	LT D OFF	·

File No. - 856 6/19/89 OCEAN CITY,MD A/C Reg. No. N9520X Time (Lc1) - 1335 EDT

Occurrence #1 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

1. AIRSPEED - EXCESSIVE - PILOT IN COMMAND

2. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND

ON GROUND COLLISION WITH OBJECT

- 3. FLARE IMPROPER PILOT IN COMMAND
- 4. RECOVERY FROM BOUNCED LANDING
- 5. GO-AROUND NOT PERFORMED PILOT IN COMMAND

Phase of Operation LANDING - ROLL

Finding(s)

Occurrence #2

6. OBJECT - AIRPORT FACILITY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO GO AROUND AFTER LANDING LONG & RECOVERING FROM A BOUNCED LANDING. CONTRIBUTING FACTORS WERE: THE PILOT'S EXCESSIVE AIRSPEED ON THE APCH, HIS IMPROPER FLARE FOR THE LANDING, HIS FAILURE TO ATTAIN THE PROPER TOUCHDOWN POINT, AND THE AIRPORT FACILITY (LOCALIZER TRANSMITTER) BEYOND THE END OF THE RUNWAY.

File No 926 7/01/89 FRUIT	LAND, MD A/C Reg	. No. N6760D	Time (Lcl)	- 2310 EDT	
Basic Information Type Operating Certificate-NONE (GENERA				ıries	
	SUBSTANT		Fatal Serious		None
Type of Operation -PERSONAL	Fire	Crew	0 0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0 0	0	0
Accident Occurred During -LANDING					
Aircraft Information					
Make/Model - BELL 47J	Eng Make/Model - LYCO	MING VO-435-A1D	ELT Installed,	'Activated	- NO -N/A
Landing Gear - SKID	Number Engines - 1		Stall Warn	ing System	- NO
Max Gross Wt - 2850	Engine Type - RECI	PROCATING-CARBURETO	R	_	
No. of Seats - 4	Rated Power - 2	60 HP			
Environment/Operations Information					
Weather Data	Itinerary	Α	irport Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AIRPORT/STR	P	
Method - N/A	SALISBURY, MD		,	•	
Completeness - N/A	Destination	Αi	rport Data		
Basic Weather - VMC	SAME AS ACC/INC		•		
Wind Dir/Speed- CALM	·		Runway Ident	- N/A	
Visibility - 10.0 SM	ATC/Airspace		Runway Lth/Wid	- N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE	Runway Surface	- N/A	
Lowest Ceiling - NONE	Type of Clearance -		Runway Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	FULL STOP	•	·	
Precipitation - NONE	,, , , , <u>, , , , , , , , , , , , , , ,</u>				
Condition of Light - NIGHT(DARK)					
Personnel Information					
Pilot-In-Command	Age - 38 M	edical Certificate	- VALID MEDICAL-N	O WAIVERS	'I IMIT
Certificate(s)/Rating(s)	Biennial Flight Review		Time (Hours)	,	
COMMERCIAL	Current - YES	Total - 40	00 Last 2	24 Hrs -	2
SE LAND	Months Since - 24	Make/Model- 25 Instrument- UNK/	00 Last 3	30 Davs-	13
HELICOPTER	Aircraft Type - BELL 47	Instrument- UNK/	NR Last 9	0 Days-	15
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Multi-Eng - UNK/	NR Rotord	craft - UN	IK/NR
Instrument Rating(s) - NONE					
Narrative THE PLT INITIALLY LANDED AT AN ARPT TO OBTAIN WAS NOT AVAILABLE. HE DEPARTED THE ARPT & ELE AT NIGHT, THE HELICOPTER CONTACTED THE WOODEN THE PLT LOST CONTROL OF THE HELICOPTER & IT DEPOLICE ADMINISTERED A BREATHALYZER TEST, WHICE	ECTED TO LAND AT A CONVENIENCE N FRAMED CANOPY STRUCTURE WHIC DESCENDED & IMPACTED THE PAVEM	STORE WHICH HAD FU H COVERED THE FUEL ENT. ABOUT 1 HR AFT	EL PUMPS. DRG A L PUMPS. SUBSEQUENT ER THE ACDNT, THE	ANDING TLY,	

File No. - 926 7/01/89 FRUITLAND, MD A/C Reg. No. N6760D Time (Lc1) - 2310 EDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- PHYSICAL IMPAIRMENT(ALCOHOL) PILOT IN COMMAND
- 3. LIGHT CONDITION DARK NIGHT
- 4. OBJECT OTHER
- 5. CLEARANCE MISJUDGED PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT OF THE PILOT BY FLYING, WHILE PHYSICALLY IMPAIRED BY ALCOHOL, AND HIS MISJUDGEMENT OF CLEARANCE BETWEEN THE HELICOPTER AND THE STRUCTURE. THE DARK NIGHT AND OBJECT (STRUCTURE) WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 952 2/01/89 KENNE	BUNK, ME A	/C Reg. No. N	N67561	Т	ime (Lc1) -	1125 EST	
Basic Information Type Operating Certificate-NONE (GENERA		craft Damage			Injur		
T		BSTANTIAL	_	Fatal	Serious		None
Type of Operation -BUSINESS	Fir	_	Crew	0	1	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	NC	INE	Pass	0	0	1	0
Aircraft Information							
Make/Model - BEECH A-36	Eng Make/Model	- CONTINENTAL	_ IO-520-BB	15 ELT	Installed/A	ctivated -	YES-UNK/NR
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines				tall Warnir		
Max Gross Wt - 3600		- RECIP-FUEL	INJECTED	_			0
No. of Seats - 6	Rated Power	- 285 HP	5.10=5.1=5				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	•	oint			RPORT/STRIF	•	
Method - N/A	PORTLAND, ME	OTITE		OII AI	KFOKI/ SIKII		
Completeness - N/A	Destination			Airport D	2+2		
Basic Weather - VMC	BOSTON, MA			Amport	ata		
Wind Dir/Speed- UNK/NR	BOSTON, MA			Pupway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight F	Dian - NONE			•	N/A N/A	
Lowest Ceiling - NONE	Type of Clearand					N/A	
Obstructions to Vision- NONE	Type of Creatailo	- FORCED	LANDING	Runway	Status -	IN/ A	
Precipitation - NONE	Type Apcn/ Lndg	- FURCED	LANDING				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 45				MEDICAL-WA	IVERS/LIM:	ſΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review			it Time (H			
PRIVATE	Current - YE	S Tota	al -			Hrs - UN	K/NR
SE LAND, ME LAND	Current - YE Months Since - 7 Aircraft Type - BE	Make	•	2010	Last 30		17
	Aircraft Type - BE	:-90 Inst	trument-		Last 90	Days-	62
		Mult	ti-Eng -	525			
Instrument Rating(s) - AIRPLANE							
Narrative							
SHORTLY AFTER TAKEOFF WHILE IN CRUISE AT 3,00							
WAS ATTEMPTED DURING WHICH THE ACFT CONTACTED							
THE FUEL SELECTOR WAS FOUND BETWEEN THE TWO T						T PUMP	
WAS OFF AND FUEL WAS PRESENT IN BOTH TANKS. I	N ADDITION, A WITNESS I	NDICATED THAT	THE PILOT	DID NOT	CONDUCT A		
PREFLIGHT EXAM OF THE ACFT PRIOR TO TAKEOFF.							

File No 9	52 2/01/89	KENNEBUNK, ME	A/C Reg. No. N67561	Time (Lcl) - 1125 EST
Occurrence #1 Phase of Operation		OWER(TOTAL) - NON-ME	CHANICAL	
FUEL BOOST PUMP	ECTOR POSITION - I SELECTOR POSITION	MPROPER USE OF - PILO I - NOT USED - PILOT NOT PERFORMED - PILOT	IN COMMAND	
Occurrence #2	EUDCED LANDING		·	
Phase of Operation	DESCENT - EMERGE	NCY		
Occurrence #3 Phase of Operation				
Finding(s) 5. OBJECT - TREE(S)			
Probable Cause				
The National Transpo	ntation Safety Roa	rd determines that the	ne Probable Cause(s) of this accide	ant was

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S FAILURE TO ASSURE THE FUEL SELECTOR WAS PROPERLY POSITIONED WHICH RESULTED IN FUEL STARVATION AND THE SUBSEQUENT FORCED LANDING.

File No 891 5/14/89 BIG RA Basic Information	PIDS,MI A/C	C Reg. No. N163MH		lime (Lc)	I) - 1300 CD	I
Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL		raft Damage STANTIAL	Fa [.] Crew	Ir tal Seriou O O		None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE		ass	0 0	ŏ	4
Aircraft Information Make/Model - AVIONS MAX HOLSTE MH 152 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 5952 No. of Seats - 6	Number Engines - Engine Type -	P&W R-985-AN1 1 RECIPROCATING-CAF 450 HP		ELT Installe Stall War	ed/Activated rning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Po	int		port Proximit N AIRPORT	ty	
Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- VARIABLE/008 KTS Visibility - 10.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 2600 FT BROKE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ZEELAND,MI Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla	an - NONE - NONE	Airpo Ri Ri Ri Ri	ort Data OBEN-HOOD unway Ident unway Lth/Wid unway Surface unway Status	d - 3500/ e - ASPHALT	
	Age - 47 Biennial Flight Review	Medical Certi		VALID MEDICAL me (Hours)	WAIVERS/LI	міт
PRIVATE SE LAND	Current - YES Months Since - 12 Aircraft Type - M208	Total Make/Mode	- 497 1- 39			1 14 20
Instrument Rating(s) - NONE						
-Narrative PILOT REPORTED THAT DURING THE LANDING ROL LEFT. HE TRIED TO CORRECT THE SITUATION BY R & LEFT WING WERE DAMAGED. THE PILOT REPOR KEGON, MICHIGAN, THE 1250 EDT WIND WAS FROM	APPLYING LEFT BRAKE, BUTTED THE WIND DIRECTION N	JT THE AIRCRAFT GI	ROUND LOO	PED AND THE I	_EFT MAIN	

File No. - 891 5/14/89 BIG RAPIDS,MI A/C Reg. No. N163MH Time (Lcl) - 1300 CDT

Occurrence #1
Phase of Operation

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. WEATHER CONDITION UNFAVORABLE WIND
- 2. WEATHER CONDITION CROSSWIND
- 3. WEATHER CONDITION GUSTS
- 4. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 6. GROUND LOOP/SWERVE UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT AND HIS FAILURE TO MAINTAIN DIRECTIONAL CONTROL. THE THE VARIABLE/GUSTY/CROSSWIND CONDITION WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 919 6/11/89	NEW ERA, MI A/C Re	eg. No. N35561		ime (Lcl)	- 2115 EDT	•
-Basic Information Type Operating Certificate-NONE (G		t Damage		Inju		
	SUBSTAI		Fatal	Serious	Minor	None
Type of Operation -PERSONA		Crew	0	1	0	0
Flight Conducted Under -14 CFR	91 NONE	Pass	0	2	0	0
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 172I	Eng Make/Model - LY			Installed/		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		9	itall Warni	ng System	- YES
Max Gross Wt - 2300	Engine Type - REG		TOR			
No. of Seats - 4	Rated Power -	150 HP				
-Environment/Operations Information	-					
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRI	•		ON AIF	STRIP		
Method - N/A	FREMONT, MI					
Completeness - N/A	Destination		Airport [
Basic Weather - VMC	LOCAL		LANKF			
Wind Dir/Speed- CALM					- 27	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - 15000 FT				Surface		IRF
	OVERCAST Type of Clearance		Runway	Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg					
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
-Personnel Information		** 1: 1 0 1:01				
Pilot-In-Command	Age - 59 Biennial Flight Review	Medical Certifica			AIAFK2\ LIM	11 1
Certificate(s)/Rating(s)	Biennial Flight Review	Filgi	nt Time (H		4 11	_
PRIVATE	Current - YES Months Since - 5	Total -		Last 2 Last 3	4 Hrs -	0
SE LAND	Months Since - 5 Aircraft Type - C-172I	Make/Model- Instrument-	114	Last 30	Days-	3
	Aircraft Type - C-1/21	Instrument-	O	Last 90	J Days-	6
Instrument Rating(s) - NONE						
-Narrative						
PLT WAS ATTEMPTING TO LAND ON THE VE						
TP A DIRT ROAD WITH 12 INCH RERM ARIL	TS APPROACH END OF RWY USED. THE	PLT TOUCHED DOWN	N OPEN F	ELD SHORT)F	
II. A DIKT KOAD WITH TE THON BEKM ABO						
O AND RWY, HIT BERM ON ROLLOUT, SHEAR	ED NOSE GEAR AND FLIPPED INVERTE	O.				

File No 9	19 6/11/89	NEW ERA,MI	A/C Reg. No. N35561	Time (Lcl) - 2115 EDT
Occurrence #1 Phase of Operation		TOUCHDOWN		
		D - PILOT IN COMMAND - PILOT IN COMMAND		
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WATER		
Finding(s) 3. TERRAIN CONDITI				
Occurrence #3 Phase of Operation				
Probable Cause				
The National Transpo	rtation Safety Boa	rd determines that the	Probable Cause(s) of this accide	ent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was THE PILOT'S MISJUDGEMENT OF THE PROPER TOUCHDOWN POINT.

File No 846 6/18/89 PORT	HURON,MI	A/C Reg. No. N8	3752S	7	ime (Lc1)	- 1530 ED	T
Basic Information Type Operating Certificate-NONE (GENER		rcraft Damage ESTROYED		Fatal	Inj Serious	uries Minor	None
Type of Operation -INSTRUCTION		re	Crew	0	1	0	0
Flight Conducted Under -14 CFR 91		ONE	Pass	ő	Ó	ő	ŏ
Accident Occurred During -APPROACH		0142	, 455	Ü	Ŭ	Ū	v
Aircraft Information							
Make/Model - CESSNA 150		- CONTINENTAL	0-200-A			/Activated	
Landing Gear - TRICYCLE-FIXED	Number Engines				itall Warr	ing System	- YES
Max Gross Wt - 1600	Engine Type	- RECIPROCATIN	IG-CARBURE	TOR			
No. of Seats - 2	Rated Power	- 100 HP					
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Departure	Point		ON AIF	PORT		
Method - TELEPHONE	PONTIAC, MI						
Completeness - FULL	Destination			Airport [
Basic Weather - VMC	SAME AS ACC/I	NC			IR COUNTY		
Wind Dir/Speed- 260/006 KTS					/ Ident	- 22	
Visibility - 15.0 SM	ATC/Airspace					- 5105/	
	TTERED Type of Flight					- ASPHALT	•
Lowest Ceiling - NONE	Type of Clearan			Runway	/ Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STO)P				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 60					WAIVERS/LI	MII
Certificate(s)/Rating(s)	Biennial Flight Revie		_	t Time (H	•		_
STUDENT	Current - N		-	102		24 Hrs -	2
	Months Since - N		Model-		Last		11
	Aircraft Type - N	/A Instr	`ument-	1	Last	90 Days-	13
Instrument Rating(s) - NONE							
Narrative							
CCORDING TO A WITNESS, THE STUDENT PLT WAS							
RI-MOTOR, TRANSPORT PLANE). THE WITNESS EST							
HE JU-52 TOUCHED DOWN ON THE FIRST 1/3 OF T							
HEN IT BANKED RAPIDLY FROM SIDE TO SIDE, TH			HED. THE S	TUDENT'S	INSTRUCTO	R & SOME	
ITNESSES SUSPECTED THE CESSNA HAD ENCOUNTER	PED WAKE TURBUUENCE EROM	THE .111~52					
TIMESSES SUSPECIED THE CESSIVA HAD ENCOUNTER	LD WARE TORBOLLINGE TROP	THE 00 32.					

File No 8	46 6/18/89	PORT HURON,MI	A/C Reg. No. N8752S	Time (Lcl) - 1530 EDT	
Occurrence #1 Phase of Operation	VORTEX TURBULENC APPROACH - VFR P	E ENCOUNTERED ATTERN - FINAL APPROACH			
WAKE TURBULENCE			·		
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS	ION WITH TERRAIN/WATER			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE STUDENT PILOT AND HIS INADVERTENT ENCOUNTER WITH WAKE TURBULENCE FROM THE TRANSPORT AIRCRAFT. THE STUDENT'S LACK OF TOTAL EXPERIENCE WAS CONSIDERED A CONTRIBUTING FACTOR.

File No 852 7/02/89 TECUM	SEH, M I	A/C Reg.	No. N3939D	Т	ime (Lcl)	- 1349 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	_ AVIATION)	Aircraft Da SUBSTANTIA Fire NONE		-	Injur Serious O O	ries Minor 1 O	None O 4
Aircraft Information Make/Model - CESSNA 182A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 4	Eng Make/M Number Eng Engine Typ Rated Powe	gines - 1 pe - RECIPR	ENTAL 0-470-L OCATING-CARBUR HP	S ETOR	Installed// tall Warnir	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/008 KTS Visibility - 4.000 SM Lowest Sky/Clouds - 25000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart SAME AS A Destination LOCAL ATC/Airspace FERED Type of Fith Type of Cle Type Apch/I	ACC/INC ight Plan - NO earance - NO		OFF AI Airport D AL MEY Runway Runway Runway	ERS	- 18 - 2680/ - ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 27 Biennial Flight F Current Months Since Aircraft Type	Review - YES - 5	ical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ate - VALID ght Time (H 351 86 45 27		4 Hrs - O Days-	7 64 87
Instrument Rating(s) - AIRPLANE							
THE PLT RPRTD THE ENG SUDDENLY LOST POWER AS THE FOLLOWED THE EMERGENCY CHECKLIST (INCLUDING AND	G THE USE OF CARB VER. FERROUS & NOM EVEAL ANY MECHANIO CHARTS, CARB ICINO T BEFORE THE FLT,	HEAT), BUT TH N-FERROUS META CAL PROBLEM. T G WAS POSSIBLE HE DRAINED FU	E ENG WOULD NO LLIC MATERIAL HE TEMP & DEW AT GLIDE POWE EL FROM EACH O	OT RESTART. WAS FOUND POINT WERE ER, BUT ICI OF THE SUMP	DRG AN EMI IN THE ENG 83 & 69 DI NG WOULD NO S, USING A	ERGENCY OIL EG, DT HAVE	

File No 8	52 7/02/89 T	ECUMSEH,MI	A/C Reg. No. N3939D	Time (Lcl) - 1349 EDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWE TAKEOFF - INITIAL C			
Finding(s) 1. UNDETERMINED				
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY			
Occurrence #3 Phase of Operation		WITH TERRAIN/WATER		
Finding(s) 2. TERRAIN CONDITION	ON - DIRT BANK			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. THE EMBANKMENT (DIRT BANK) WAS A CONTRIBUTING FACTOR.

N & - nal Transportation Safety Board Washington, D.C. 20594

Type of Operation	File No 923 7/03/89 GL	_ADWIN,MI	A/C Reg	. No. N7093K	-	Time (Lcl)) - 1020 EI	ТС
Accident Occurred During -LANDING Aircraft Information Make/Model - PIPER PA-20	Type Operating Certificate-NONE (GEN Type of Operation -INSTRUCT)	·	SUBSTANT	[AL	rew O	Serious O	Minor O	1
Make/Model - PIPER PA-20		1	NONE	Р	ass 0	0	1	0
Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 230/008 KTS Wisibility - 6.0 SM Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Lowest Sky/Clouds - 3000 FT SCATTERED Type of Clearance - NONE Ubstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND Method - N/A GLADWIN,MI Destination Airport Proximity ON AIRPORT Airport Droximity ON AIRPORT ON AIRPORT Airport Proximity ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT Airport Proximity ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT Airport Proximity ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT Airport Proximity ON AIRPORT ON AIRPORT ON AIRPORT ON AIRPORT Airport Proximity ON AIRPORT Airport Data SUGAR SPRINGS Runway Ident - 09 Runway Lth/Wid - 3000/ 90 Runway Lth/Wid - 3000/ 90 Runway Status - DRY OBA OBA FULL STOP Full STOP Full STOP Flight Time (Hours) Total - 3800 Last 24 Hrs - 1 Make/Model - 50 Last 30 Days - 38 Aircraft Type - C-150 Make/Model - 50 Last 90 Days - 103 Multi-Eng - 70	Make/Model - PIPER PA-20 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1800	Number Er Engine Ty	ngines - 1 /pe - RECIA	PROCATING-CAR	9			
Basic Weather - VMC GLADWN,MI SUGAR SPRINGS Wind Dir/Speed- 230/008 KTS Wind Dir/Speed- 230/008 KTS Visibility - 6.0 SM ATC/Airspace Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- HAZE Type Apch/Lndg - FULL STOP Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command	Weather Data Wx Briefing - NO RECORD OF BRIEF	Itinerary FING Last Depar					/	
Pilot-In-Command Age - 61 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3800 Last 24 Hrs - 1 SE LAND,ME LAND Months Since - 12 Make/Model - 50 Last 30 Days - 38 Aircraft Type - C-150 Instrument - 0 Last 90 Days - 103 Multi-Eng - 70	Basic Weather - VMC Wind Dir/Speed- 230/008 KTS Visibility - 6.0 SM Lowest Sky/Clouds - 3000 FT S Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE	GLADWN,M ATC/Airspace SCATTERED Type of F Type of C	MI e light Plan - I learance - N	NONE	SUGAR Runwa Runwa Runwa	SPRINGS / Ident / Lth/Wid / Surface	- 3000/ - GRASS/	
Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3800 Last 24 Hrs - 1 SE LAND,ME LAND Months Since - 12 Make/Model - 50 Last 30 Days - 38 Aircraft Type - C-150 Instrument - 0 Last 90 Days - 103 Multi-Eng - 70		Aae - 61	Me	edical Certif	icate - VALII	O MEDICAL-	-WAIVERS/L	IMIT
SE LAND, ME LAND Months Since - 12 Make/Model- 50 Last 30 Days- 38 Aircraft Type - C-150 Instrument- 0 Last 90 Days- 103 Multi-Eng - 70								
Aircraft Type - C-150 Instrument- O Last 90 Days- 103 Multi-Eng - 70								
	SE LAND, ME LAND			Instrument	- O		•	
Instrument Rating(s) - AIRPLANE	Instrument Rating(s) - AIRPLAN	E _.						

File No 9	23 7/03/89 GLADWIN,MI	A/C Reg. No. N7093K	Time (Lcl) - 1020 EDT
Occurrence #1 Phase of Operation	LOSS OF CONTROL - ON GROUND LANDING - ROLL		
 LANDING GEAR, TA BRAKES (NORMAL 	ILWHEEL - BENT ONTROL - NOT POSSIBLE - PILOT IN COMMAND ILWHEEL ASSEMBLY - WORN) - UNAVAILABLE - PILOT IN COMMAND(CFI) NOT USED - DUAL STUDENT	(CFI)	
Occurrence #2 Phase of Operation	ON GROUND COLLISION WITH TERRAIN/WATER LANDING - ROLL		
Finding(s) 6. TERRAIN CONDITI	ON - DITCH		
Occurrence #3 Phase of Operation			
Probable Cause			
The National Transpo	rtation Safety Board determines that the	Probable Cause(s) of this accid	ent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
FAILURE OF THE PILOT SEATED IN THE LEFT SEAT OF THE AIRPLANE TO USE BRAKES TO CORRECT FOR A LEFT TURN CAUSED BY A
BENT TAIL WHEEL.

Type Operating Certificate-NONE (GENERAL AVIATION) Type of Operation -PERSONAL Fire Crew O O O O O O O O O O O O O O O O O O O	
Make/Model - CESSNA T-337D	1.
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/009 KTS Visibility - 5.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 4000 FT BROKEN Obstructions to Vision- HAZE Precipitation Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) Wx Briefing - NO RECORD OF BRIEFING Last Departure Point FREMONT,MI Last Departure Point FREMONT,MI Destination PRESEMONT,MI Destination Airport Data Airport Data Airport Data Airport Data Airport Data Airport Data Airport Proximity OFF AIRPORT/STRIP FREMONT,MI Airport Proximity OFF AIRPORT/STRIP OFF AIRPO	
Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/ Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours)	
SE LAND, ME LAND Months Since - 12 Make/Model- 51 Last 30 Days- Aircraft Type - C-172 Instrument- UNK/NR Last 90 Days- Multi-Eng - 750 Rotorcraft - Instrument Rating(s) - AIRPLANE	1 4 8

File No. - 920 8/19/89 HOWELL,MI A/C Reg. No. N33N Time (Lcl) - 1820 EDT LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. FLUID, FUEL - EXHAUSTION 2. PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND 3. FUEL CONSUMPTION CALCULATIONS - INACCURATE - PILOT IN COMMAND 4. ENGINE INSTRUMENTS, FUEL QUANTITY GAGE - INCORRECT 5. MAINTENANCE, CALIBRATION - NOT PERFORMED - OTHER MAINTENANCE PSNL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 6. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S POOR PREFLIGHT PLANNING AND INACCURATE FUEL CONSUMPTION CALCULATIONS. CONTRIBUTING FACTOR WAS MAINTENANCE PERSONNEL'S NOT PERFORMING CORRECT CALIBRATION OF FUEL GAGES.

-Basic Information							
Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	_ AVIATION)	Aircraft Damage DESTROYED Fire NONE	Crew Pass	Fatal 1 O	Injur Serious 1 O		None O O
-Aircraft Information Make/Model - CHAMPION 7EC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1450 No. of Seats - 2	Number Engi	- RECIPROCATI		S.	Installed/A tall Warnin		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/009 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	BKN Type of Flig Type of Clea			OFF AIR Tirport Da Runway Runway Runway	Proximity RPORT/STRIP ata Ident - Lth/Wid - Surface - Status -	N/A N/A SNOW	CRUSTED
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,SE SEA	Biennial Flight Re	view - YES Tota - 4 Make	al - 1	: Time (Ho 444 :/NR	ours) Last 24 Last 30	Hrs - UN Days- UN	IK/NR IK/NR
Instrument Rating(s) - NONE	· 						
-Narrative NESSES REPORTED SEEING THE AIRCRAFT CIRCLI H THE TERRAIN. INVESTIGATION REVEALED THE OVER THE ALLOWABLE TAKEOFF WEIGHT AND EXC	PILOT HAD EXCEEDED	WEIGHT AND BALANC	CE PARAMETER				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN ADEQUATE AIRSPEED WHICH RESULTED IN A STALL AND LOSS OF AIRCRAFT CONTROL. THE PILOT'S FAILURE TO OBSERVE WEIGHT AND BALANCE LIMITATIONS OF THE AIRCRAFT WAS A CONTRIBUTING FACTOR.

----Probable Cause----

File No 969 5/10/89 COTTA	GE GROVE,MN A/C Reg	y. No. N5357Q	T i	ime (Lc1) -	2050 CDT	
Basic Information Type Operating Certificate-ON-DEMAND AI	TAXI Aircraft Damage SUBSTANTIAL		Injuries Fatal Serious Minor None			
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	Fire NONE	Crew Pass	0	1	0	0
-Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	9 71	DMING 0-235-L2C PROCATING-CARBURE 10 HP	St	installed/A all Warnir		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 120/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary	NONE NONE	Airport Da Runway Runway Runway	RPORT/STŔIF ata Ident - Lth/Wid - Surface -	N/A N/A	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s) - AIRPLANE	Age - 26 ! Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR		t Time (Ho 750 K/NR K/NR	ours) Last 24 Last 30 Last 90	Hrs - UNI Days- UNI	K/NR K/NR K/NR
Narrative FER THE PLT & AN ACQUAINTANCE TOOK OFF ON A FER. ACCORDING TO A WITNESS, THE ACFT'S WHE GIN CIRCLING A CHEMICAL PLANT, NEAR THE RIV SK. SUBSEQUENTLY, THE ACFT ENTERED A NOSE LO ME AFTER THE ACDNT, MEDICAL PERSONNEL ARRIV DBLEM OF THE ACFT OR ENG WAS FOUND. AS THE SONOTED. TOXICOLOGY CHECKS SHOWED THE PLT H. DOD/ALCOHOL OF O.186% (186 MG/DL).	ELS TOUCHED THE WATER AT ONE ER, WHERE PRODUCTION LIGHTING OW ATTITUDE & CRASHED IN A NI ED & PROVIDED ASSISTANCE. DRO OCCUPANTS WERE BEING REMOVED	POINT. THE ACFT WAS BEING USED TO EARBY WOODED AREA AN INVESTIGATION FROM THE ACDNT SI	AS THEN OE O FILM A C ON THE RIV , NO PREIM TE, THE OC	BSERVED TO DOCUMENTARY /ER BLUFF. MPACT MECHA DOR OF ALCO	CLIMB & 'AT A SHORT NICAL DHOL	

File No. - 969 5/10/89 COTTAGE GROVE,MN A/C Reg. No. N5357Q Time (Lcl) - 2050 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- 2. PHYSICAL IMPAIRMENT(ALCOHOL) PILOT IN COMMAND
- 3. MANEUVER INITIATED PILOT IN COMMAND
- 4. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 5. STALL INADVERTENT PILOT IN COMMAND

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

Finding(s)

6. OBJECT - TREE(S)

7. TERRAIN CONDITION - MOUNTAINOUS/HILLY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT OF THE PILOT BY FLYING WHILE PHYSICALLY IMPAIRED FROM CONSUMPTION OF ALCOHOL; AND HIS FAILURE TO MAINTAIN ADEQUATE AIRSPEED, WHILE MANEUVERING, WHICH RESULTED IN AN INADVERTENT STALL AND COLLISION WITH WOODED/HILLY TERRAIN.

Type Operating Certificate-NONE (GENERA		ft Damage	Injuries				
		ANTIAL	Fatal			None	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire	Crev Pass		0	0	1	
Accident Occurred During -TAKEOFF	NONE		. 0	O	U		
Aircraft Information				T		VEC /N	
Make/Model - STINSON L-5 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - L' Number Engines -			Installed/A tall Warnir			
Max Gross Wt - 2250	Engine Type - R			tali wariii	ig system	NO	
No. of Seats - 2	Rated Power -						
Environment/Operations Information							
Weather Data	Itinerary			Proximity			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poin SAME AS ACC/INC	t	ON AIR	PORT			
Method - N/A Completeness - N/A	Destination		Airport D	ata			
Basic Weather - VMC	ST PAUL, MN			CLOUD			
Wind Dir/Speed- 360/014 KTS	- · · · · · · · · · · · · · · · · · · ·		Runway	Ident -	09		
Visibility - UNK/NR	ATC/Airspace			Lth/Wid -		75	
Lowest Sky/Clouds - 6000 FT SCAT					ASPHALT		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY		
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- NUNE					
Condition of Light - DAYLIGHT	·						
Personnel Information							
Pilot-In-Command	Age - 43 Biennial Flight Review	Medical Certifica	cal Certificate - VALID MEDICAL-NO WAIVERS/LIMIT				
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ght Time (F			_	
PRIVATE	Current - YES	Total -	433	Last 24	Hrs -	6 15	
SE LAND	Months Since - 13 Aircraft Type - PA-28	Make/Model- Instrument-	65	Last 30	Days-	24	
	All Clart Type TA 20	This is differen	00	Lust st	Days	27	
Instrument Rating(s) - AIRPLANE	•						
Narrative						-	
PILOT SAID THAT WHILE ATTEMPTING A TAKEOF	F WITH A 90 DEGREE CROSSWI	ND FROM THE LEFT A	ABOUT 14	KNOTS, HE L	_OST		
	THE LEFT SIDE OF THE RUNWA						

File No. - 867 8/06/89 MINNEAPOLIS,MN A/C Reg. No. N68591 Time (Lc1) - 1830 CDT

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. WRONG RUNWAY - SELECTED - PILOT IN COMMAND
2. WEATHER CONDITION - CROSSWIND
3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
4. GROUND LOOP/SWERVE - UNCONTROLLED
Occurrence #2 NOSE OVER Phase of Operation TAKEOFF

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT SELECTED THE WRONG RUNWAY AND FAILED TO MAINTAIN DIRECTIONAL CONTROL. THE CROSSWIND WAS A CONTRIBUTING FACTOR.

File No 873 8/15/89	WASECA, MN	A/C Reg. No	o. N8471E	Т	ime (Lc1) -	1245 CD1	-
Basic Information Type Operating Certificate-AGRICU	LTURAL AIRCRAFT	Aircraft Dama			Injur		
		SUBSTANTIAL		Fatal	Serious		None
	APPLICATION	Fire	Crev		0	1	0
Flight Conducted Under -14 CFR Accident Occurred During -LANDIN	G	NONE	Pass		0	0	0
Aircraft Information							NO N/A
Make/Model - BELL 47G-B3	Eng Make/M Number End	lodel - LYCOMING	i VU-435-A1F		Installed/A tall Warnin		
Landing Gear - SKID Max Gross Wt - 2850	Engine Typ		CATING-CARBUR		tali wariin	g system	- 100
No. of Seats - 1	Rated Powe			KETUK			
No. or seats - r	Rateu Fowe						
Environment/Operations Information- Weather Data				Ainmont	Proximity		
Wx Briefing - NO RECORD OF BR	Itinerary IEFING Last Depart	ure Point		•	RPORT/STRIP		
Method - N/A	WASECA, MN			OII AI	KFUKI/ SIKIF		
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 360/010 KTS				Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - N/A		ght Plan - NONI			Surface -	• .	
		arance - NONI		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/L	.ndg - FOR(CED LANDING				
Precipitation - NONE	-						
Condition of Light - DAYLIGH							
Personnel Information							/.
Pilot-In-Command	Age - 43 Biennial Flight R		cal Certifica	ate - VALIL ght Time (F		WAIVERS	LIMII
<pre>Certificate(s)/Rating(s)</pre>	Current	YES	riig Total -		Last 24	Hns -	4
SE LAND, ME LAND	Months Since		Make/Model-		Last 30		95
HELICOPTER	Aircraft Type		Instrument-		Last 90	•	208
TILLICOT TEX	Arrorare Type		Multi-Eng -			aft -	2500
			3				
Instrument Rating(s) - AIRPL	ANE 						
Narrative G A RETURN FLT TO THE NURSE TRUCK AFT S AT ABOUT 100 FT AGL WITH A TAILWIND ND, SO HE MADE AN AUTOROTATION WITH A NDING, THE HELICOPTER ROCKED FORWARD POST-ACDNT INVESTIGATION REVEALED THE	WHEN THE POWER LOSS OCC TAILWIND IN A BEAN FIEL & THE MAIN ROTOR BLADES	CURRED. HE HAD D, MANEUVERING	INSUFFICIENT ONLY TO AVO	ALTITUDE T ID A POWER	O TURN INTO LINE. DRG T	THE HE	

File No. - 873 8/15/89 WASECA, MN A/C Reg. No. N8471E Time (Lc1) - 1245 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. AUTOROTATION 5. RUN ON LANDING Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. WEATHER CONDITION - TAILWIND 7. TERRAIN CONDITION - HIGH OBSTRUCTION(S) 8. TERRAIN CONDITION - CROP

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. THE TAILWIND, HIGH OBSTRUCTION (POWER LINE), AND CROP (BEANS) WERE CONTRIBUTING FACTORS.

----Probable Cause----

File No 874 8/20/89 CARLIS	SLE, MN A/C	Reg. No. N812SS	12SS Time (Lc1) - 2000 CDT)T	
Basic Information Type Operating Certificate-NONE (GENERAL	•	aft Damage	Fatal	Injur Serious	ies Minor	None	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew	0	0	1 0	0	
Aircraft Information Make/Model - DORMOY TKD BATHTUB Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - UNK/NR No. of Seats - 1	Number Engines - Engine Type -	FRANKLIN 2A-12O-B 1 RECIPROCATING-CARBUR 60 HP	S ETOR	Installed/A tall Warnin	g System	- NO	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 020/007 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 25000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi FARGO,ND Destination FERGUS FALLS,MN ATC/Airspace TERED Type of Flight Pla Type of Clearance Type Apch/Lndg	ın - NONE	Airport OFF AI Airport D Runway Runway Runway	Proximity RPORT/STRIP ata Ident - Lth/Wid - Surface -	N/A N/A		
	Age - 46 Biennial Flight Review Current - YES Months Since - 21 Aircraft Type - C-18		ht Time (H 2400 122	ours) Last 24 Last 30	WAIVERS/ Hrs - UN Days- UN Days- UN aft -	IK/NR IK/NR IK/NR	
Instrument Rating(s) - AIRPLANENarrative THE PLT SAID THAT DURING FLT, THE ENG OF THE F ANDING, THE ACFT ENCOUNTERED TALL GRASS, ROCK NVESTIGATION REVEALED THE MIXTURE CONTROL CAE CONTROL LEVER. THIS WAS THE 2ND FAILURE DURING BOUT 15 TO 20 MIN INTO THE FLT. THE PLT MADE TOOLS & REPAIRED THE CABLE. THE 2ND FAILURE OF	S, GOPHER MOUNDS & DOWNW BLE (PIANO WIRE) HAD FAIL G THE FLT FROM FARGO, ND A SUCCESSFUL FORCED LAND	R OVER ROUGH TERRAIN, ARD SLOPING TERRAIN, ED AT A BOLT WHERE I TO FERGUS FALLS, MN. DING AFTER THE 1ST FA	. DURING A AND WAS D T ATTACHED THE 1ST F ILURE, THE	N EMERGENCY AMAGED. AN TO THE MIX AILURE OCCU N BORROWED	TURE RRED		

File No. - 874 8/20/89 CARLISLE.MN A/C Reg. No. N812SS Time (Lc1) - 2000 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. MIXTURE CONTROL.CABLE - FAILURE.TOTAL 2. MAINTENANCE - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 3. TERRAIN CONDITION - NONE SUITABLE 4. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE MIXTURE CONTROL CABLE AND INADEQUATE MAINTENANCE (REPAIR) BY THE PILOT. THE TERRAIN CONDITIONS WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

-Basic Information			2168S	T ·			
Type Operating Certificate-ON-DEMAND	AIR TAXI	Aircraft Damage			Injur [.]		
		SUBSTANTIAL		Fatal			None
Type of Operation -POSITIONIN		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	0	0	0	0
-Aircraft Information	5 W . /W		0005	E. 7			V50 (V50
Make/Model - BELL 206B		el - ALLISON 250	-C20B		[nstalled/Ad		
Landing Gear - SKID	Number Engir Engine Type			51	tall Warning	j System	- NU
Max Gross Wt - 3200 No. of Seats - 5	Rated Power						
-Environment/Operations Information							
Weather Data	Itinerary				Proximity	-	
Wx Briefing - NO RECORD OF BRIEFI				OFF AIR	RPORT/STRIP	* II	e de la companya de l
Method - N/A	SAME AS ACC	/INC					
Completeness - N/A	Destination LOCAL			Airport Da	ata		
Basic Weather - VMC Wind Dir/Speed- 300/008 KTS	LUCAL			Dunyay	Ident -	N/A	
Visibility - 12.0 SM	ATC/Airspace				Lth/Wid -	•	
Lowest Sky/Clouds - N/A	Type of Fligh	t Plan - NONE			Surface -		
Lowest Ceiling - 2500 FT BR	· · · · · · · · · · · · · · · · · · ·					N/A	
Obstructions to Vision- NONE	Type Apch/Lnc				0 101 1010	,	
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Condition of Light - DAYLIGHT							
-Personnel Information			0		MEDICAL NO	LIA TVEDO A	(L. TART T
Pilot-In-Command Certificate(s)/Rating(s)	Age - 38 Biennial Flight Rev	iew	Fligh	nt Time (Ho			
COMMERCIAL, CFI	Current -	YES Tota			Last 24		9
SE LAND, ME LAND	Months Since - Aircraft Type -	2 Make	/Model-	150	Last 30 Last 90	Days-	67
HELICOPTER	Aircraft Type -	206B Inst	rument-	128 750	Last 90		188
		Mult	1-Eng -	750	Rotorcra	art -	867
Instrument Rating(s) - AIRPLANE							

File No. - 870 8/26/89 PARK RAPIDS,MN A/C Reg. No. N2168S Time (Lc1) - 1545 CDT

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF

Finding(s)

1. OBJECT - WIRE,TRANSMISSION

2. CLEARANCE - MISJUDGED - PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT MISJUDGED THE CLEARANCE BETWEEN THE HELICOPTER AND THE POWER LINE. THE POWER LINE (TRANSMISSION WIRE) WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

-Basic Information Type Operating Certificate-ON-DEMAND AI		g. No. N95KS	Т	ime (Lcl) -	0650 CD	Γ
		•		Injuri		
	SUBSTAN	TIAL	Fatal	Serious	Minor	None
Type of Operation -AERIAL OBSER		Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - HUGHES 269C	Eng Make/Model - LYC	OMING HIO-360-D14	FIT	Installed/Ac	hatevi t	- NO -N/A
Landing Gear - SKID	Number Engines - 1	OMING THO SOUND TA		tall Warning		
Max Gross Wt - 2050	Engine Type - REC		3	tall warning	, system	NO
No. of Seats - 3	Rated Power -					
No. or Seats - 3	Rated Power -	190 HP				
-Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - COMMERCIAL WX SERVICE	Last Departure Point		OFF AI	RPORT/STRIP		
Method - IN PERSON	ST PAUL,MN					
Completeness - WEATHER NOT PERTINENT	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		·			
Wind Dir/Speed- 200/012 KTS			Runway	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance				N/A	
Obstructions to Vision- NONE	Type Apch/Lndg -	FORCED LANDING		0 10 100	,	
Precipitation - NONE	Type Apaly Enag	. O. O. D. L. M. D. M. G.				
Condition of Light - DAWN						
-Personnel Information						
Pilot-In-Command	Aae - 34	Medical Certifica	te - VALID	MEDICAL-WAI	VERS/LT	мтт
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F		VEN3/ E1	
COMMERCIAL	Current - YES	Total -	1857	last 24	Hrs - II	NK /NR
SE LAND	Months Since - 15	Make/Model-	1161	1ast 24	Dave- II	NK/ND
HELICOPTER	Months Since - 15 Aircraft Type - 300C	Instrument-	3	Last 90	Days U	NK/ND
HELICOFIER	Afficiant Type 3000	Make/Model- Instrument- Multi-Eng -	0	Potorora	ft -	1703
		Marti Liig	O	ROTOLCIE		1703

36 9/28/89 BLOOMINGTON,	, MN A/	C Reg. No. N95KS	T i	me (Lc1) - 0650	CDT
	MECH FAILURE/MALF				
CRANKSHAFT - FAILURE, TOTAL	· 	· ·	·		
					·
-	LOSS OF ENGINE POWER(TOTAL) - CRUISE CRANKSHAFT - FAILURE, TOTAL FORCED LANDING DESCENT - EMERGENCY HARD LANDING LANDING - FLARE/TOUCHDOWN - DAWN	LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF CRUISE CRANKSHAFT - FAILURE, TOTAL FORCED LANDING DESCENT - EMERGENCY HARD LANDING LANDING - FLARE/TOUCHDOWN - DAWN	LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF CRUISE CRANKSHAFT - FAILURE, TOTAL FORCED LANDING DESCENT - EMERGENCY HARD LANDING LANDING - FLARE/TOUCHDOWN - DAWN	LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF CRUISE CRANKSHAFT - FAILURE, TOTAL FORCED LANDING DESCENT - EMERGENCY HARD LANDING LANDING - FLARE/TOUCHDOWN - DAWN	LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF CRUISE CRANKSHAFT - FAILURE, TOTAL FORCED LANDING DESCENT - EMERGENCY HARD LANDING LANDING - FLARE/TOUCHDOWN - DAWN

FAILURE OF THE ENGINE CRANKSHAFT. THE LIGHT CONDITIONS AT DAWN AND THE VEHICLES WERE CONSIDERED TO BE CONTRIBUTION FACTORS.

File No 830 1/05/89 MA	CON, MO	A/C Reg. No. N	166WR	Time (Lcl) - 1200 CST				
Basic Information								
Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Damage			Injur			
		DESTROYED		Fatal	Serious	Minor	None	
Type of Operation -FERRY		Fire	Crew	1		Ο	Ο	
Flight Conducted Under -14 CFR 91		ON GROUND	Pass	0	0	О	0	
Accident Occurred During -CRUISE								
Aircraft Information								
Make/Model - WELLS VARIEZE	Eng Make/	Model - CONTINENTAL	0-200-A	ELT]	[nstalled/#	ctivated	- NO -N/A	
Landing Gear - UNK/NR	Number En	gines - 1		St	tall Warnir	ng System	- NO	
Max Gross Wt - 1200	Engine Ty	oe - RECIPROCATI	NG-CARBURE	TOR		•		
No. of Seats - 2	Rated Pow	er - 100 HP						
·-Environment/Operations Information								
Weather Data	Itinerary			Airport A	Proximity			
Wx Briefing - NO RECORD OF BRIEF	_	ture Point		•	RPORT/STRIF)		
Method - N/A	PEORIA, I				, -			
Completeness - N/A	Destination			Airport Da	ata			
Basic Weather - UNK/NR	KANSAS C	ITY, M O		•				
Wind Dir/Speed- 150/010 KTS				Runway	Ident -	· N/A		
Visibility - 2.000 SM	ATC/Airspace			Runway	Lth/Wid -	N/A		
Lowest Sky/Clouds - UNK/NR	Type of F1	ight Plan - NONE		Runway	Surface -	· N/A		
Lowest Ceiling - 500 FT 0	/ERCAST Type of Cl	earance - NONE		Runway	Status -	· N/A		
Obstructions to Vision- FOG		Lndg - NONE		_				
Precipitation - RAIN								
Condition of Light - DAYLIGHT								
Pilot-In-Command	Age - 61	Medical	Centificat	o - VALTD	MEDICAL -WA	TVEDS/LIM	тт	
Certificate(s)/Rating(s)	Richnial Flight	Poviou	Fliab	t Time (He	MEDICAL-WA	TVERS/LIM	11	
PRIVATE	Cuppent	Review - YES Tota	1 1 -	1400	Last 24	l Hnc -	1	
SE LAND, ME LAND	Months Since	- 19 Make	. /Modol-	1409	Last 30		1	
SE LAND, ME LAND	Ainchaft Tun	- 18 Make e - C-210 Inst	e/Model-	226	Last 90	,	1	
	All Chart Typ	e C ZIO INS	ti-Eng -	301	Last 90	Days-	, 1	
		Мат	LI-Eng -	301				
Instrument Rating(s) - AIRPLANE								
Narrative								
E PLT HAD JUST PURCHASED THE ACFT & WAS	FERRYING IT FROM ALL	EGAN, MI, TO HIS HO	ME ARPT AT	KANSAS CI	ITY, MO. AN	I EN ROUTE		
OP WAS MADE AT PEORIA, IL, WHERE HE REFU	ELED & CHECKED THE W.	X. AT PEORIA, FBO F	SNL NOTED I	HE HAD FUE	EL ON THE S	SEAT OF		
S PANTS. HE SAID FUEL HAD GOTTEN ON HIS	SEAT CUSHION FROM A	LEAK AT THE TOP OF	A FUEL SIGN	HT GAUGE (NEAR THE A	AFT SEAT).		
HAD THE ACFT REFUELED IN A LVL ATTITUDE	(RATHER THAN THE US	JAL NOSE LOW ATTITU	JDE) TO KEEI	P FUEL FRO	M LEAKING	FROM THE		
UGE. BFR DEPG ON THE 2ND LEG OF THE FLT,	THE PLT COMMENTED H	E WOULD LIKE TO BEA	AT THE WX TO	O HIS HOME	. DRG FLT,	THE ACFT		
T A TREE, WHILE ON A NNW HDG NR MACON, M	D, THEN CRASHED & BU	RNED. IT WAS FND ON	√ 5/5/89. II	NV REVEALE	D THERE WA	S A LOW		
ILING IN THE AREA. APRX 24 MI NORTH AT K	IRKSVILLE, MO, THE W	X WAS IN PART: 500	OVC, 2 MI	VIS WITH	LIGHT RAIN	∖ & FOG.		
	- WAC THE OF A MECHA		O	DEFORE TI	IC OLT LEET			
CEPT FOR THE RPRTD FUEL LEAK, NO EVIDENC	WAS FIND UP A MECHA	NICAL MALFUNCTION (JR FAILURE.	BEFURE IF	HE PLI LEFI	ALLEGAN,		

File No. - 830 1/05/89 MACON, MO A/C Reg. No. N66WR Time (Lcl) - 1200 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - LOW CEILING 2. WEATHER CONDITION - FOG 3. WEATHER CONDITION - RAIN 4. FLIGHT INTO KNOWN ADVERSE WEATHER - CONTINUED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation CRUISE Finding(s) 5. FUEL SYSTEM - LEAK 6. FLIGHT TO ALTERNATE DESTINATION - DELAYED - PILOT IN COMMAND 7. OBJECT - TREE(S) 8. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CONTINUED FLIGHT BY THE PILOT INTO KNOWN ADVERSE WEATHER AND HIS FAILURE TO MAINTAIN SUFFICIENT ALTITUDE/CLEARANCE ABOVE OBSTACLES. CONTRIBUTING FACTORS WERE: LOW CEILING, FOG, RAIN, PILOT DELAYING FLIGHT TO AN ALTERNATE DESTINATION, HIS LACK OF RECENT FLIGHT EXPERIENCE, HIS LACK OF FAMILIARITY WITH THE TYPE OF AIRCRAFT, AND TREES.

----Probable Cause----

File No 927 3/25/89	ADVANCE, MO	A/C Reg.	No. N48385	Т	ime (Lcl) -	0815 CS	Т
	TURAL AIRCRAFT	Aircraft Da	ımage		Injur	ies	
		SUBSTANTIA	.L	Fatal	Serious	Minor	None
Type of Operation -AERIAL	APPLICATION	Fire	Cre		0	0	1
Flight Conducted Under -14 CFR		NONE	Pas	s 0	0	0	0
Accident Occurred During -DESCENT							
-Aircraft Information							
Make/Model - GRUMMAN G-164A			1340-AN1		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXE					tall Warnin	g System	- YES
Max Gross Wt - 4500			OCATING-CARBU	RETOR			
No. of Seats - 1	Rated Powe	r - 600) HP 				
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRI				OFF AI	RPORT/STRIP		
Method - N/A	PAINTON, M	D					
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - IMC Wind Dir/Speed- 200/009 KTS	LOCAL			Dunium	Talont	N/A	
Visibility - 3.000 SM	ATC/Airspace				Ident - Lth/Wid -		
	Type of Fli	nht Plan - NO	INF		Surface -		
Lowest Ceiling - 500 FT	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					N/A	
Obstructions to Vision- FOG		ndg - NC		Kariway	5 (4 (45	14/ A	
Precipitation - NONE	Type Apolly 2	140	7112				
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 33	Mec	dical Certific	ate - VALID	MEDICAL-NO	WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	eview	Fli	aht Time (F	ours)		,
COMMERCIAL	Biennial Flight R Current Months Since	- YES	Total -	2416	Last 24	Hrs -	5
SE LAND	Months Since	- 1	Make/Model-	2085	Last 30		
	Aircraft Type	- C-172XP	Instrument-	13	Last 90	Days-	31
			Multi-Eng -	3	Rotorcr	aft - U	NK/NR
Instrument Rating(s) - NONE							
Instrument Rating(s) - NONE 			Multi-Eng -	3	Rotorcr	aft - U	NK/NR

File No. - 927 3/25/89 ADVANCE,MO A/C Reg. No. N48385 Time (Lcl) - 0815 CST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT
Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. WEATHER CONDITION - FOG
2. OBJECT - WIRE,STATIC
3. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND
4. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADEQUATE VISUAL LOOKOUT RESULTING IN HIS FAILURE TO SEE POWER LINES IN TIME TO AVOID THEM. CONTRIBUTING TO THE ACCIDENT WAS THE REDUCED VISIBILITY DUE TO FOG.

File No 975 5/07/89 HAM	[LTON,MO	A/C Reg. No. N	3581G	T	ime (Lc1) -	1755 CDT	
-Basic Information Type Operating Certificate-NONE (GENE		rcraft Damage		- -	Injur	ies	_
	D	ESTROYED		Fatal	Serious		None
Type of Operation -PERSONAL	Fi		Crew	1	Ο	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING		N GROUND	Pass	0	0	0	0
Aircraft Information							
Make/Model - CALLAIR A-9	Eng Make/Model				Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines				tall Warnir	ng System	- YES
Max Gross Wt - 1900	Engine Type		NG-CARBURET	DR .			
No. of Seats - 1	Rated Power	- 235 HP					
Environment/Operations Information	_						
Weather Data	Itinerary		,	Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Departure	Point		OFF AI	RPORT/STRIP)	
Method - N/A	MARCELINE, MO						
Completeness - N/A	Destination		Α	irport D	ata		
Basic Weather - VMC	MARCELINE, MO			•			
Wind Dir/Speed- 150/009 KTS				Runway	Ident -	N/A	
Visibility - 20.0 SM	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 30000 FT SC	ATTERED Type of Flight	Plan - NONE		Runway	Surface -	GRASS/TL	IRF
Lowest Ceiling - NONE	Type of Clearan	ce - NONE		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED I	LANDING	•			
Precipitation - NONE	31 1 7						
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 27	Medical (Certificate	- VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Revie	W	Flight	Time (H	ours)		
PRIVATE	Current - U	NK/NR Tota	1 -				
SE LAND	Months Since - U	NK/NR Make	/Model- UNK	/NR	Last 30	Days- UN	IK/NR
	Aircraft Type - U	NK/NR Insti	/Model- UNK, rument- UNK, i-Eng - UNK,	/NR	Last 90	Days- UN	IK/NR
	,	Mult	i-Eng - UNK,	/NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - NONE							
Narrative	NIC LUIEN THE ACCEPTANT OF						
E PLT WAS PRACTICING AGRICULTURAL SPRAY RI							
TH THE FIELD, THE ACFT DESCENDED AND IMPA							
DDER CABLE REVEALED THAT ALL WIRES ON FOUN							
VE HAD LESS THAN 100 HOURS TOTAL FLIGHT E	MERIENCE. A TEARDOWN OF	THE ENGINE FA	TED IN KEA	EAL ANY	ANUMALIES V	HICH	
JLD HAVE SUGGESTED A FAILURE/MALFUNCTION.							

File No. - 975 5/07/89 A/C Reg. No. N3581G HAMILTON, MO Time (Lcl) - 1755 CDT AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. MAINTENANCE, INSPECTION OF AIRCRAFT - INADEQUATE - COMPANY MAINTENANCE PSNL 2. FLT CONTROL SYST, RUDDER CONTROL CABLE/ROD - FAILURE, TOTAL 3. AIRCRAFT CONTROL - NOT POSSIBLE - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 4. TERRAIN CONDITION - OPEN FIELD ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOTS FAILURE TO MAINTAIN CONTROL AND PREVENT THE AIRPLANE FROM DESCENDING WHILE IN A TURN.

File No 903 5/13/89	ELDON, MO A/C	Reg. No. N37511	No. N37511 Time (Lcl) - 1715 CST			=
Basic Information Type Operating Certificate-NONE (G Type of Operation -PERSONA Flight Conducted Under -14 CFR	SUBS L Fire 91 NONE	aft Damage TANTIAL Crew Pass	Fatal 0 0	Injur Serious 1 O		None 0 0
Accident Occurred During -TAKEOFF						
-Aircraft Information Make/Model - BENSEN B-8KSB Landing Gear - TRICYCLE-FIXED Max Gross Wt - 500 No. of Seats - 1	Number Engines - Engine Type -	MCCULLOCH 4318E 1 RECIPROCATING-CARBURE 72 HP	S TOR		g System	- NO
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A Completeness - N/A Basic Weather - VMC	Itinerary	nt		Proximity RPORT/STRIP ata		
Wind Dir/Speed- 320/005 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 2000 FT Lowest Ceiling - 25000 FT Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	BROKEN Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	Ident - Lth/Wid - Surface - Status -	N/A	
-Personnel Information Pilot-In-Command	Age - 44	Medical Certificat	- NO ME	DICAL		
Certificate(s)/Rating(s) NONE	Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A	Fligh Total - Make/Model-	t Time (H	ours)	Hrs - UN Days- UN Days- UN	NK/NR NK/NR NK/NR
Instrument Rating(s) - NONE						
Instrument Rating(s) - NONENarrative E PILOT LOST CONTROL OF THE GYROCOPTER DPELLER MADE CONTACT WITH THE TERRAIN. LAHOMA CITY, OKLAHOMA, REFLECT THAT TH	DURING THE ATTEMPTED TAKEOFF. THE PILOT HELD NO AIRMEN OF M		JDDER ASSE	MBLY, AND		NK/N

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO MAINTAIN AIRCRAFT CONTROL WHICH RESULTED IN COLLISION WITH THE TERRAIN DURING TAKE OFF.

File No 868 7/29/89 L	IBERTY, MO A/C	Reg. No. N4278E	Т	ime (Lcl) -	1200 CDT	-
Basic Information						
Type Operating Certificate-NONE (GE		aft Damage		Injuri		
		STANTIAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCT		Crew	-	0	0	2
Flight Conducted Under -14 CFR 9	1 NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - PIPER PA-38-112	Eng Make/Model -	LYCOMING 0-235-L2C	ELT	Installed/Ad	ctivated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	S	tall Warning	y System	- YES
Max Gross Wt - 1670	Engine Type -	RECIPROCATING-CARBUR		_	,	
No. of Seats - 2	Rated Power -	112 HP				
Environment/Operations Information	_					
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIE		nt	ON AIR	•		
Method - N/A	LIBERTY, MO	TIC	ON AIN	TOKI		
	•		1 - mm - m + C	\a_+a		
Completeness - N/A	Destination		Airport C			
Basic Weather - VMC	SAME AS ACC/INC			Y LANDING		
Wind Dir/Speed- 190/012 KTS	/				22	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		36
	SCATTERED Type of Flight Pla			-	GRAVEL	
Lowest Ceiling - 30000 FT			Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 30	Medical Certifica	te - VALIC	MEDICAL-NO	WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (F			
COMMERCIAL, CFI	Current - YES			Last 24	Hrs -	11
SE LAND, ME LAND	Months Since - 16	Make/Model-	200	Last 30		134
JE ENID, NE ENID	Aircraft Type - PA-4		218	Last 90		344
	ATT CTATE TYPE FA	Multi-Eng -	73	Last 30	Days	044
Instrument Rating(s) - AIRPLAN	E					
This i dilett kattig(s) AIRFLAN						
Narrative						
E STUDENT & INSTRUCTOR (CFI) ELECTED TO	VISIT AN ARPT WITH A NARROW	RWY WHERE SMALL ACFT	WERE BUIL	T & FLOWN. 1	THE	
T APCH WAS NOT TO THE CFI'S SATISFACTIO	N, SO A GO-AROUND WAS MADE. 1	THE 2ND APCH WAS GOOD	, BUT DRG	THE LNDG, TH	łΕ	
JDENT "FROZE" AT THE CONTROLS & THE CFI	WAS UNABLE TO RELEASE THE ST	TUDENT'S GRASP. SUBSE	QUENTLY, T	HE ACFT BOUN	NCED,	
EN IT WENT INTO A BORDERING CORN FIELD						
T THE STUDENT CONTINUED TO STAY ON THE				,		
5. 12 2 55, T. 1. 50 5. A. 57 11 E.						

File No. - 868 7/29/89 LIBERTY, MO A/C Reg. No. N4278E Time (Lcl) - 1200 CDT Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. FLARE - IMPROPER - DUAL STUDENT Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 2. RECOVERY FROM BOUNCED LANDING - ATTEMPTED - PILOT IN COMMAND(CFI) 3. CONTROL INTERFERENCE - PERFORMED - DUAL STUDENT ANXIETY/APPREHENSION - DUAL STUDENT 5. WEATHER CONDITION - CROSSWIND 6. TERRAIN CONDITION - CROP 7. PROPER ALIGNMENT - NOT MAINTAINED -

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
CONTROL INTERFERENCE BY THE DUAL STUDENT AS THE INSTRUCTOR TRIED TO RECOVER FROM THE STUDENT'S BOUNCED LANDING, AND
FAILURE TO MAINTAIN PROPER RUNWAY ALIGNMENT. CONTRIBUTING FACTORS WERE: IMPROPER FLARE BY THE STUDENT, THE CROSSWIND,

THE STUDENT'S APPREHENSION DURING THE BOUNCED LANDING, AND THE CROP BESIDE THE RUNWAY.

----Probable Cause----

File No 871 8/27/89 KANSAS	CITY,MO	A/C Reg.	No. N63884	1	ime (Lc1)	- 1328 CD	T
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	AVIATION)	Aircraft D SUBSTANTI Fire NONE	AL Cr	Fatal ew O ss O	-	ries Minor O	None 1 1
Accident Occurred During -TAXI							
-Aircraft Information Make/Model - CONSOLIDATED VULTEE BT-1 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4350 No. of Seats - 2	3A Eng Make/M Number Eng Engine Typ Rated Powe	e - RECIP	-985-AN3 ROCATING-CARE O HP	SURETOR	Installed/ Stall Warni	ng System	- NO
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/003 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 4500 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depart SAME AS A Destination LOCAL ATC/Airspace ERED Type of Fli Type of Cle Type Apch/L	CC/INC ght Plan - N arance - V ndg - N	FR	Airport ON AII Airport I RICHAI Runway Runway Runway Runway	Proximity RPORT Data RDS GEBAUR / Ident / Lth/Wid / Surface / Status	- 18 - 9000/ - MACADAM	150
-Personnel Information	A CF	84 -	dia-1 Cambici	+- \/ALT	MEDICAL	.A.T.V.E.D.C. / L.T.I	M T T
	Age - 65 Biennial Flight R		dical Certifi F1	ight Time (IAIVERS/LII	MII
COMMERCIAL, CFI	Current	- YES	Total -	14205	Last 2	!4 Hrs -	2
SE LAND,ME LAND,SE SEA	Months Since Aircraft Type		Make/Model- Instrument- Multi-Eng -	970	Last 3 Last 9	00 Days-	2 14
Instrument Rating(s) - AIRPLANE				*			
-Narrative PLT WAS GIVING "RIDES" TO THE OWNER'S FAMI NGE PASSENGERS (PAX). AFTER THE PAX CHANGE, HITED FWD VISIBILITY IN THE TAILWHEEL EQUIPP IN TURN RGT TO S-TURN & CLR HIMSELF DWN THE IN THE TWY FM THE OPPOSITE DRCTN. AS THE ACF OF THE ACFT & THE PLT DID NOT SEE THEM. T CE EVASIVE ACTN, BUT WAS UNSUCCESSFUL. SUBSE LILER. THE ACDNT OCCURRED ON A JOINT-USE MIL OF CTL & IN VIEW OF THE CTL TWR. THE OPERG PR	LY. HE STOPPED IN HE CONTACTED GND ED ACFT. TO TAXI, TWY. AS HE BGN TA T ANGLED ONTO THE HE 1ST VEHICLE DR QUENTLY, THE ACFT ITARY/CIVILIAN AR	A NORTHERLY CTL & OBTAI HE ELECTED XIING, 2 CAM TWY, THE RE IVER STOPPED 'S LEFT WING PT. THE PLT	DRCTN AT/NEANED CLNC TO TO ANGLE THE OUFLAGED TUGS LATIVE PSN OF TRIED TO COME HIT THE 1ST & VEHICLE DRI	AXI FOR AND ACFT TO THE WITH AMMO THE VEHICLE CONTACT GND VEHICLE & TH VERS WERE U	THER TAKEOF LEFT ONTO TRAILERS WE ES REMAINED CTL. HE THE HE PROP HIT NDER JURISC	F. HE HAD THE TWY, TRE COMING OFF THE OFF THE THE AMMO	0

File No. - 871 8/27/89

KANSAS CITY, MO

A/C Reg. No. N63884

Time (Lcl) - 1328 CDT

Occurrence #1 Phase of Operation

ON GROUND COLLISION WITH OBJECT

TAXI

Finding(s)

- 1. CONTROL TOWER SERVICE INADEQUATE ATC PSNL(LCL/GND/CLNC)
- 2. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 3. OBJECT VEHICLE
- 4. REMEDIAL ACTION INADEQUATE DRIVER OF VEHICLE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE CONTROL TOWER SERVICE PROVIDED BY TOWER PERSONNEL, AND INADEQUATE REMEDIAL ACTION BY THE VEHICLE DRIVER. THE PILOT'S LACK OF VISUAL LOOKOUT WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

File No 930 9/02/89 OZAF	RK,MO A	A/C Reg. No. N182JR Time (Lc1) - 1215 CDT			-	
Basic Information Type Operating Certificate-NONE (GENER		craft Damage BSTANTIAL	Fatal	Injuri Serious		None
Type of Operation -INSTRUCTION Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NAL Fir		w O	0	0	2
Aircraft Information Make/Model - BELL 47G Landing Gear - SKID Max Gross Wt - 2350 No. of Seats - 2	Number Engines Engine Type	- FRANKLIN 6V-335-53 - 1 - RECIPROCATING-CARBU	Ç	Installed/Ac Stall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 060/005 KTS Visibility - 7.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1200 FT OVE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	OZARK,MO Destination LOCAL ATC/Airspace Type of Flight P ERCAST Type of Clearance	lan - NONE	ON AIR Airport [AIR PA Runway Runway Runway Runway		800/ GRASS/TU	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI	Age - 47 Biennial Flight Review Current - YE	Medical Certifica Fli	aht Time (F	Hours)		
SE LAND HELICOPTER	Months Since - 2 Aircraft Type - 47	Make/Model-	160 62 3	Last 24 Last 30 Last 90 Rotorcra	Days- Days- aft -	33 74 160
Instrument Rating(s) - AIRPLANE						
Narrative HILE PRACTICING AUTOROTATION LANDINGS, THE DLLING TO THE RIGHT AND THE MAIN ROTOR BLAC CCIDENT INVESTIGATION REVEALED THAT THE RIC THE SKID HAD CUT A GROOVE IN THE GRASS A TOP. THE FORWARD INERTIA BOUGHT THE TAIL BO	DES STRIKING THE TERRAIN. GHT SKID, FORWARD OF THE DISTANCE OF ABOUT 2 FEET	THE HELICOPTER CAME FRONT UPRIGHT HAD FRA BEFORE IMBEDDING ITS	TO REST ON CTURED. THE ELF, CAUSIN	IT'S RIGHT S BROKEN PORT	SIDE. TION	

File No 9	30 9/02/89	OZARK,MO	A/C Reg.	No. N182JR	Time (Lc1) - 1215 CDT
Occurrence #1 Phase of Operation		TOUCHDOWN			
LANDING GEAR, SK	MISJUDGED - DUAL S ID ASSEMBLY - FAIL INADEQUATE - PILO	JRE, PARTIAL			
Occurrence #2 Phase of Operation		TOUCHDOWN			·
Occurrence #3 Phase of Operation		TOUCHDOWN			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE FAILURE OF THE DUAL STUDENT TO PROPERLY FLARE DURING AN AUTOROTATIVE LANDING RESULTING IN A HARD LANDING AND
PARTIAL FAILURE OF THE RIGHT SKID. THE CFI ALSO FAILED TO PROPERLY MONITOR THE STUDENT'S ACTIONS ON THE FLIGHT CONTROLS.

File No 929 9/24/89 CALIFBasic Information	JRN1A, MU ,	A/C Reg. No. N63			ime (Lcl)	- 1330		
Type Operating Certificate-NONE (GENERA		craft Damage			Inj	uries		
		JBSTANTIAL		Fatal	Serious			None
Type of Operation -INSTRUCTIONA			Crew	0	0	-)	1
Flight Conducted Under -14 CFR 91	NO	DNE	Pass	0	0	()	0
Accident Occurred During -LANDING								- <i></i>
Aircraft Information								
Make/Model - CESSNA 150		- CONTINENTAL C	-200-A		Installed			
Landing Gear - TRICYCLE-FIXED	Number Engines				tall Warr	ning Syst	tem -	YES
Max Gross Wt - 1600		- RECIPROCATING	-CARBURE	OR				
No. of Seats - 2	Rated Power	- 100 HP						
Environment/Operations Information								
Weather Data	Itinerary			Airport				
Wx Briefing - NO RECORD OF BRIEFING		Point		OFF AI	RPORT/ST	PIP		
Method - N/A	QUINCY, IL							
Completeness - N/A Basic Weather - VMC	Destination		Д	irport D	ата			
Wind Dir/Speed- 090/011 KTS	CALIFORNIA, MO			Dunairo	Ident	- N/A		
Visibility - 20.0 SM	ATC/Airspace				Lth/Wid			
Lowest Sky/Clouds - CLEAR	Type of Flight F	Plan - NONE			Surface		s/TIIDE	=
Lowest Ceiling - NONE	Type of Clearand				Status		3/ 10KI	
Obstructions to Vision- NONE	Type Apch/Lndg		NDING	Kariway	5 (4 (45	DICT		
Precipitation - NONE	, , po , , po, , , _ , , ag	1011025 27						
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 38	Medical Ce	rtificate	- VALID	MEDICAL-	NO WAIVE	ERS/LI	IMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review			: Time (H			-,	
STUDENT	Current - N	'A Total	-	24	Ĺast	24 Hrs -	-	4
	Months Since - N	'A Make/M	lode1 -	24	Last	30 Days	-	5
	Aircraft Type - N	'A Instru	ment-	Ο	Last	90 Days	-	10
Instrument Rating(s) - NONE								
Narrative								
PILOT STATED THAT DURING A NORMAL DESCENT						DING		
MADE RESULTING IN SUBSTANTIAL DAMAGE TO T								
UNCTIONS, OR EVIDENCE OF FUEL EXHAUSTION.			WERE CON	DUCIVE F	OR THE			
ABILITY OF CARBURETOR ICING ACCORDING TO	THE HICKNA BBODEDITEN							

File No. - 929 9/24/89 CALIFORNIA, MO A/C Reg. No. N63091 Time (Lc1) - 1330 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation DESCENT - NORMAL Finding(s) 1. WEATHER CONDITION - CARBURETOR ICING CONDITIONS 2. FUEL SYSTEM, CARBURETOR - ICE 3. CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE CARBURETOR HEAT BY THE PILOT RESULTING IN THE FORMATION OF CARBURETOR ICE AND SUBSEQUENT LOSS OF POWER.

File No 836 5/26/89 ARCOL	A,MS A/C Reg	. No. N73089	Т.	ime (Lc1) -	1330 CDT	
Basic Information Type Operating Certificate-AGRICULTURAL	AIRCRAFT Aircraft	Damage		Injur	ies	_
<i>7</i> 1 1 3	SUBSTANT	IAL	Fatal	Serious	Minor	None
Type of Operation -AERIAL APPLI		Crew	0	0	0	1
Flight Conducted Under -14 CFR 137	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - AIR TRACTOR AT-301	Eng Make/Model - P&W	R-1340-AN1				
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1	DDOOATTNO OADDUDET		tall Warning	g System	- YES
Max Gross Wt - 5000	Engine Type - RECI		UR			
No. of Seats - 1	Rated Power - 6	OO HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING			OFF AIR	RPORT/STRIP		
Method - N/A	SAME AS ACC/INC		income D			
Completeness - N/A Basic Weather - VMC	Destination LOCAL	7	irport Da	ата		
Wind Dir/Speed- 210/015 KTS	LUCAL		Punway	Ident -	NI / A	
Visibility - 12.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - N/A	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - 3500 FT BROK	· · · · · · · · · · · · · · · · · · ·			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg -		•		·	
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		ledical Certificate			IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Review	Flight	Time (Ho	ours)		(
COMMERCIAL	Current - YES	Total - Make/Model- UNN Thistrument- UNN	500	Last 24	Hrs - UN	IK/NR
SE LAND	Months Since - 22	Make/Model- UN	(/NR	Last 30	Days- UN	IK/NR
	Aircraft Type - UNK/NR	Multi-Eng - UNK	/NK /ND	Potonon	Days- UN	IK/NK Ik∕ND
		Multi-Eng - UN	() INK	KO LONGIN	ait - UN	IN/ INK
Instrument Rating(s) - NONE						
Nonetica						
Narrative E RETURNING TO A FIELD FOR AERIAL APPLICA	TION THE ENGLISH DOWER THE	DIT DUMBED THE CL	AEMICAL LO	1AD & LANDE	n	
. MUDDY FIELD. DURING THE LANDING, THE ACF						
ALED A CIRCUMFERENTIAL CRACK ON THE #2 CY		TER THE ACCIDENT	AN EXAM	S. THE LING		
ALLO A CINCOMIENTAL CRACK ON THE ME OF						

5/26/89 A/C Reg. No. N73089 File No. - 836 ARCOLA, MS Time (Lcl) - 1330 CDT LOSS OF ENGINE POWER Occurrence #1 Phase of Operation CRUISE Finding(s) 1. ENGINE ASSEMBLY, CYLINDER - CRACKED Occurrence #2 FORCED LANDING Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 2. LOAD JETTISON Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 3. TERRAIN CONDITION - SOFT 4. TERRAIN CONDITION - WET ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CIRCUMFERENTIAL ON THE NUMBER 2 CYLINDER WHICH RESULTED IN A LOSS OF ENGINE POWER.

File No 986 6/01/89 BIG T	MBER, MT A/C	Reg. No. N76KM	Т	ime (Lc1) -	2335 MD	Т
Basic Information Type Operating Certificate-ON-DEMAND AIF Name of Carrier -HELP FLIGHT Type of Operation -NON SCHED,DOM Flight Conducted Under -14 CFR 135 Accident Occurred During -TAKEOFF		oft Damage OYED Crev Pass			ies Minor O O	None O O
Aircraft Information Make/Model - BELL 206L-3 Landing Gear - SKID Max Gross Wt - 4150 No. of Seats - 4	Eng Make/Model - A Number Engines - Engine Type - T Rated Power -	1 TURBOSHAFT 650 HP	S	Installed/A tall Warnin	g System	n - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 5000 FT SCAT	Itinerary Last Departure Poir SAME AS ACC/INC Destination BILLINGS,MT ATC/Airspace TERED Type of Flight Plar	t n - NONE	Airport D OFF AI Airport D Runway Runway Runway	Proximity RPORT/STRIP ata	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND,ME SEA HELICOPTER	Age - 47 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - 206L-	Flic	ght Time (H 9036 915 662	ours) Last 24 Last 30 Last 90	Hrs - Days- L Days-	1 JNK/NR 51
Instrument Rating(s) - AIRPLANE						
AT ABT 2158 MDT, THE EMERG MED SVC (EMS/MEDEVA TO SAINT VINCENTS HOSP FOR (NGT) CURRENCY. API EMS FLT. THE EMS FLT WAS TO A RANCH (WNW OF B 2238 MDT. THE PATIENT WAS LOADED & THE PLT WAS ARND QUICKLY (TOWARD EAST) & TOOK OFF W/O HES IN A SLGT NOSE LOW, RGT BANK ATTITUDE, HDG 330 THE OPERATOR; PREV EMPLOYMENT INVOLVED FLYING THE PLT'S LAST RECORDED NGT FLT WAS ON 6/16/80 FAMILIARIZATION TRAINING FOR THE GEOGRAPHICAL	RX 9 MIN LATER, HE CTCD THE LLINGS). THE PLT HAD DIFF SEADZD OF TRRN CONDS. A WINTERING THE HEAD DEFEN THE HEAD DEFEN THE HEAD DEG. NO PREIMPACT MECH FOR DISSIMILAR HEL (BK-105)7; HIS LAST RECORDED INST	HE TWR AGAIN & ADZD TICULTY FINDING THE THESS SAID THE HEL HEL CROSSED A HILL & PRBLM WAS FND. THE F TIN THE GULF OF MEX FLT WAS PRIOR TO JU	HE WAS BEI RANCH AT N LIFTED OFF CRASHED A PLT HAD BEE (ICO AREA, JNE 1984. N	NG DISPATCH GT, BUT ARR FAST, THEN T HI SPD ON N RECENTLY LIMITED TO O RECORD WA	IED ON AN IVED AT I SWIVELE I LWR TRE HIRED BY DAY VER. S FND OF	N ED RN 7

File No 9	86 6/01/89	BIG TIMBER,MT	A/C Reg. No. N76KM	Time (Lc1) - 2335 MDT
Occurrence #1 Phase of Operation		- IN FLIGHT		
3. AIRCRAFT CONTRO 4. SPATIAL DIS 5. LACK OF REC 6. INADEQUATE 7. LACK OF FAM	L PERCEPTION - PIL L - NOT MAINTAINED ORIENTATION - PILO ENT INSTRUMENT TIM INITIAL TRAINING - ILIARITY WITH GEOG	- PILOT IN COMMAND	COMMAND	
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS TAKEOFF	ION WITH TERRAIN/WATER		
Finding(s) 9. TERRAIN CONDITI	ON - MOUNTAINOUS/H	ILLY		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN CONTROL OF THE AIRCRAFT DURING TAKEOFF, DUE TO SPATIAL DISORIENTATION, WHICH RESULTED IN A COLLISION WITH THE TERRAIN. CONTRIBUTING FACTORS WERE: DARK NIGHT, PILOT'S VISUAL PERCEPTION, INADEQUATE INITIAL TRAINING OF THE PILOT BY THE OPERATOR, THE PILOT'S LACK OF FAMILIARITY WITH THE GEOGRAPHICAL AREA, AND THE COMPANY'S INSUFFICIENT STANDARDS/REQUIREMENTS.

----Probable Cause----

File No 896 7/11/8	WH SULPHUR SPGS,MT	A/C Reg. No. 1	N6663Z	Time (Lc1) - 14	45 M DT
Type OperationA Type of Operation -AE Flight Conducted Under -14 Accident Occurred During -MA	ERIAL APPLICATION F CFR 137	Aircraft Damage SUBSTANTIAL Fire NONE	Fatal Crew O Pass O	Injuries Serious M O O	linor None O 1 O O
Aircraft Information Make/Model - PIPER PA-25 Landing Gear - TAILWHEEL-ALL Max Gross Wt - 2500 No. of Seats - 1	FIXED Number Engine	ke/Model - LYCOMING O Engines - 1 Type - RECIPROCAT Power - 235 HP		T Installed/Acti Stall Warning S	
Environment/Operations Informat Weather Data Wx Briefing - NO RECORD (Method - N/A . Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/015 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLE Lowest Ceiling - NON Obstructions to Vision- NON Precipitation - NON Condition of Light - DAN	Itinerary DF BRIEFING Last De WH SU Destinat LOCAL ATC/Airsp EAR Type of UE Type of UE Type Ap UE	parture Point LPHUR SPGS,MT ion	OFF Airport Runwa Runwa Runwa Runwa	t Proximity AIRPORT/STRIP Data ay Ident - N/ ay Lth/Wid - N/ ay Surface - N/ ay Status - N/	A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Months Si	ht Review - YES Tota	Certificate - VAL Flight Time al - 3674 e/Model- 2000 trument- UNK/NR ti-Eng - 0	(Hours) Last 24 Hr	· ·s - 5
Instrument Rating(s) - A	IRPLANE				
Narrative THE PLT WAS ON AN AERIAL APPLICATION TURN (LAST SPRAY RUN), THE ACFT ENC COLLIDED WITH THE GROUND.	ON FLT, SPRAYING WEEDS NE	XT TO HILLY TERRAIN. F			

File No. - 896 7/11/89 WH SULPHUR SPGS,MT A/C Reg. No. N6663Z Time (Lcl) - 1445 MDT

Occurrence #1

IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

- 1. WEATHER CONDITION UNFAVORABLE WIND
- 2. WEATHER CONDITION TURBULENCE
- 3. MANEUVER INITIATED -
- 4. AIRSPEED INADEQUATE PILOT IN COMMAND
- 5. STALL/MUSH INADVERTENT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN ADEQUATE AIRSPEED DURING AN AERIAL APPLICATION MANEUVER AND INADVERTENTLY ALLOWED THE AIRCRAFT TO MUSH INTO THE GROUND. UNFAVORABLE WIND AND TURBULENCE WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

File No 954 2/12/89 HUNTE	RSVILLE,NC A/C Re	g. No. N5112Y	T	ime (Lcl) -	1700 EST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	L AVIATION) Aircraft DESTROY Fire IN FLIG	ED Crew		Injur Serious O O		None 1 2
Aircraft Information Make/Model - PIPER PA-23-250 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4800 No. of Seats - 6	Eng Make/Model - LYC Number Engines - 2 Engine Type - REC Rated Power -	IPROCATING-CARBUR	S	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 070/004 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg -	NONE	ON AIR Airport D BRADFP Runway Runway Runway Runway	ata RD Ident - Lth/Wid - Surface -		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 59 Biennial Flight Review Current - YES Months Since - 23 Aircraft Type - PA23250	Total - Make/Model-	nt Time (H 7250	MEDICAL-WA ours) Last 24 Last 30 Last 90 Rotorcr	Hrs -	1
Instrument Rating(s) - AIRPLANENarrative HE PLT REPORTED THAT BLUE SMOKE AND OIL WERE HORTLY THEREAFTER, FLAMES WERE OBSERVED COMIN N EMERGENCY LDG WAS MADE. THE LEFT WING BROK FTER COMING TO STOP. AN FAA INSPECTOR EXAMIN RECLUDED DETERMINATION OF THE EXACT SOURCE O HE AIRPLANE FLIGHT PATH ABOUT 900 FT BEFORE	NG FROM THE LEFT ENGINE NACE E OFF DURING ROLLOUT. THE AI ED THE WRECKAGE; HE REPORTED F THE FIRE. HE NOTED THAT HE	LLE. THE CABIN FII RPLANE WAS CONSUM THAT THE EXTENT (LLED WITH ED BY THE OF THE FIR	SMOKE, AND FIRE SHORTL E DAMAGE	Υ	

File No 9	54 2/12/89	HUNTERSVILLE, NC	A/C Reg. No. N5112Y	Time (Lcl) - 1700 EST	
Occurrence #1 Phase of Operation	FIRE APPROACH				
Finding(s) 1. FLUID,OIL - LEAM 2. UNDETERMINED	<				
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FIRE RESULTING FROM AN OIL LEAK OF UNDETERMINED ORIGIN IN THE AREA OF THE LEFT ENGINE.

File No 958 2/26/89 LIBERT	Y, NC	A/C Reg. No.	N56600	Т	ime (Lcl) -	1115 ES	Г
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Ę.	ircraft Damag SUBSTANTIAL ire NONE	e Crew Pass	Fata1 0 0	Injur Serious O O	ries Minor O O	None 1 2
Aircraft Information Make/Model - PIPER PA-28-235 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3000 No. of Seats - 4	Eng Make/Mode Number Engines Engine Type Rated Power			TOR	Installed/ <i>E</i> tall Warnir	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 230/006 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4500 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure WINSTON-SALEM Destination LIBERTY,NC ATC/Airspace TERED Type of Flight Type of Clearar Type Apch/Lndg	M,NC Plan - NONE nce - NONE	IC PATTERN	Airport ON AIR Airport D LAKE o Runway Runway Runway	Data JUNO / Ident - / Lth/Wid - / Surface -	- 20 - 1000/	20
	Age - 34 Biennial Flight Revie Current - N Months Since - Aircraft Type - U	ew /ES To 1 Ma JNK/NR In	tal - ke/Model- strument-	e - VALIC t Time (H 304 161 48 O	lours) Last 24 Last 30 Last 90	AIVERS/LII 1 Hrs - UI) Days- UI) Days- UI raft -	NK/NR NK/NR NK/NR
Instrument Rating(s) - AIRPLANE							
THE AIRPLANE OVERRAN THE RWY DURING ROLLOUT. THE AIRPLANE OVERRAN THE RWY DURING ROLLOUT. THE INTENDED DESTINATION ARPT. WHICH HAD A 3,000 FAIRSTRIP LOCATED ABOUT 1 TO 2 MILES FROM THE THE DESTINATION ARPT, BUT WAS ONLY 1,000 FT LOCAREA BEFORE. INVESTIGATION REVEALED THAT THE FOR IN THE ARPT/FACILITY DIRECTORY. A REPRESENTANY REQUIREMENT TO NOTIFY THE FAA OF THE ARPT. THAT ANY PERSON INTENDING TO CONSTRUCT OR ESTA	T LONG BY 40 FT WIDE DESTINATION ARPT. THE DNG BY 20 FT WIDE. THI FAA HAD NO RECORD OF TATIVE OF THE ARPT OW THE AIRSTRIP WAS ABO	RWY. HE LAND AIRSTRIP RWY E PLT REPORTE THE AIRSTRIP, NER REPORTED DUT 7 YRS OLD	ED INSTEAD A WAS ORIENTE D THAT HE HA AND THAT IT THAT THE OWN . 14CFR157 (T A PRIVAD THE SAME DE NOT FLOWER WAS NOT FAR PART	ME DIRECTION DWN IN THE NOTED ON CH DT AWARE OF	HARTS	

File No. - 958 2/26/89 LIBERTY, NC A/C Reg. No. N56600 A/C Reg. No. N56600 Time (Lc1) - 1115 EST

Occurrence #1 Phase of Operation LANDING - ROLL

OVERRUN

Finding(s)

1. CHARTS - INADEQUATE

- 2. INFORMATION
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. LANDED AT WRONG AIRPORT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S INADVERTENT LANDING AT THE WRONG AIRPORT, CONTRIBUTING TO THE ACCIDENT WAS THE FAILURE OF THE AIRPORT PERSONNEL TO NOTIFY THE FAA OF THE EXISTANCE OF THE AIRPORT SO IT COULD BE PROPERLY DESIGNATED ON AVIATION CHARTS.

File No 981 5/29/89 JACKS	ONVILLE,NC A/C RO	eg. No. N5325N	Time (Lcl	- 2010 EDT	
Type Operation Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircraf DESTRO' Fire NONE	Crew	Ing Fatal Serious 1 O O O	0	None O O
Aircraft Information Make/Model - BOEING E-75 (PT-13D) Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2950 No. of Seats - 2	Eng Make/Model - COI Number Engines - 1 Engine Type - REG Rated Power -	CIPROCATING-CARBURE	Stall Warr	d/Activated ning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 130/005 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - 25000 FT BROK Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination LOCAL ATC/Airspace TERED Type of Flight Plan EN Type of Clearance	- NONE	Airport Proximity OFF AIRPORT/STF Airport Data WINGS ALOFT Runway Ident Runway Lth/Wid Runway Surface Runway Status	- 09 - 2300/ - GRASS/TU	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 41 Biennial Flight Review Current - YES Months Since - 9 Aircraft Type - C-150	Total - Make/Model- Instrument-	e - VALID MEDICAL t Time (Hours) 1225 Last 289 Last 13 Last K/NR Rotor	24 Hrs - UN 30 Days- UN 90 Days- UN	K/NR K/NR K/NR
Instrument Rating(s) - NONE					
Narrative THE PILOT WAS REPORTED TO HAVE MADE A LOW PAS FLYING. AFTER PASSING THE END OF THE RUNWAY, FAILURN 180 DEGREES AND FLY INTO THE GROUND. A F WENT INTO AN ACCELERATED STALL AND SPUN INTO FAILURE WAS FOUND DURING THE EXAMINATION OF T THE CRASH.	THE AIRPLANE WAS OBSERVED TO LIGHT INSTRUCTOR OBSERVING THE GROUND". NO EVIDENCE OF	O PULL UP STEEPLY A THE AIRPLANE STATED A MECHANICAL MALFU	S IF TO ENTER A LO THAT "THE AIRPLAN NCTION OR IN FLIGH	OOP, NE HT	

File No. - 981 5/29/89 JACKSONVILLE, NC A/C Reg. No. N5325N Time (Lcl) - 2010 EDT Occurrence #1 ABRUPT MANEUVER Phase of Operation MANEUVERING Finding(s) 1. LOW PASS - PERFORMED - PILOT IN COMMAND 2. OSTENTATIOUS DISPLAY - PILOT IN COMMAND 3. MANEUVER - ABRUPT - PILOT IN COMMAND 4. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 5. JUDGEMENT - POOR - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 6. STALL/SPIN - INADVERTENT - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 7. TERRAIN CONDITION - OPEN FIELD ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT ENCOUNTERED AN ACCELERATED STALL DURING AN ABRUPT MANEUVER, LOST CONTROL OF THE AIRPLANE AND DID NOT HAVE

SUFFICIENT ALTITUDE TO RECOVER FROM THE ENSUING SPIN PRIOR TO COLLIDING WITH THE GROUND.

File No 822 6/24/89 RALEIG	H, NC	A/C Reg. N	o. N8271F	Т	ime (Lcl)	- 1130 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL	·	vircraft Dam SUBSTANTIAL		Fatal O	-	ries Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	-	0	0	3 '
Aircraft Information Make/Model - CESSNA 401 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6300 No. of Seats - 6	Eng Make/Mode Number Engine Engine Type Rated Power	es - 2	JEL INJECTED	S	Installed/ tall Warni	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 020/010 KTS Visibility - 3.000 SM Lowest Sky/Clouds - UNK/NR SCATT Lowest Ceiling - 2300 FT BROKE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure SAME AS ACC/ Destination SAME AS ACC/ ATC/Airspace ERED Type of Flight Type Apch/Lndg	INC INC : Plan - NON ance - NON		Airport ON AIR Airport D TRIPLE Runway Runway Runway	Proximity PORT ata : "W" Ident Lth/Wid	- 34	40
	Age - 54 Biennial Flight Revi		cal Certifica Flia	te - VALID ht Time (H		O WAIVERS/	LIMIT
PRIVATE	Current -	YES	Total -	1479	Last 2	4 Hrs - UN	K/NR
SE LAND, ME LAND	Months Since - Aircraft Type -	UNK/NR	Make/Model- Instrument- Multi-Eng -	269 221 269	Last 3 Last 9	O Days- O Days-	26 53
Instrument Rating(s) - AIRPLANE							
Narrative HE PLT RPRTD THAT DRG TAKEOFF, THE RGT ENG LO OTH ENGS & ABORT THE TAKEOFF BY LANDING WITH F THE RGT ENG REVEALED HVY SOOTING OF THE SPA T INITIALLY RAN ROUGH, APPEARED TO HAVE A RIC RESSURE WAS NOTED. THE FUEL INJECTOR PUMP WAS OW PRESSURE ADJUSTMENT BOLT COULD BE ROTATED ORN & UNSERVICEABLE. MAINT RECORDS SHOWED THA NG) TURBOCONTROLLER & FUEL PUMP WERE ADJUSTED URBOCHARGED ENGS WERE NOT IAW TELEDYNE CONTIN	THE GEAR RETRACTED. RK PLUGS & EXHAUST S H MIXTURE & BLACK SM CHANGED, THEN THE E VITH FINGERS. DISASS T ENG PROBLEMS HAD E FOR BOTH HIGH & LOW	THE ACFT SK SYS. WHEN TH MOKE CAME FR ING RAN NORM, SEMBLY OF TH BEEN RPRTD OF J PRESSURES.	IDDED OFF THE E RGT ENG WAS DM THE EXHAUS ALLY. AN INSPI E PUMP DISCLO N PREVIOUS FL	RGT SIDE RESTARTED T. EVIDENC N OF THE P SED THE IN TS. ON 6/2	OF THE RWY AFTER THE E OF EXCES UMP REVEAL ITERNAL LOC 1/89, THE	. AN EXAM ACDNT, SIVE FUEL ED THE K NUT WAS (RIGHT	

File No. - 822 6/24/89 RALEIGH,NC A/C Reg. No. N8271F Time (Lcl) - 1130 EDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. 1 ENGINE -

- 2. FUEL SYSTEM, PUMP WORN
- 3. MAINTENANCE, ADJUSTMENT IMPROPER OTHER MAINTENANCE PSNL
- 4. FLUID, FUEL PRESSURE EXCESSIVE

Occurrence #2 GEAR NOT EXTENDED
Phase of Operation TAKEOFF - ABORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER MAINTENANCE BY OTHER MAINTENANCE PERSONNEL AND EXCESSIVE FUEL PRESSURE TO THE RIGHT ENGINE (RICH MIXTURE). A POSSIBLE CONTRIBUTING FACTOR WAS THE WORN/UNSERVICEABLE INTERNAL LOCK NUT IN THE FUEL PUMP.

File No 909 7/17/89 W	ASHINGTON,NC	A/C Reg.	No. N74849	Т	ime (Lcl) -	1656 EDT	
-Basic Information Type Operating Certificate-NONE (GEI	NERAL AVIATION)	Aircraft Da	mage		Injur	ies	
Type operating our tirreate none (all	TENAL AVIATION,	SUBSTANTIA	_	Fatal	-	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 9	1	NONE	Pass	0	0	0	0
Accident Occurred During -DESCENT							
-Aircraft Information							
Make/Model - WHITMAN TAILWIND W-		/Model - LYCOMI	NG 0-235				
Landing Gear - TRICYCLE-FIXED					tall Warnin	g System -	- NO
Max Gross Wt - 1500		ype - RECIPR		TOR			
No. of Seats - 1	Rated Po	wer - 115	HP				
-Environment/Operations Information	-						
Weather Data	Itinerary			•	Proximity		
Wx Briefing - NO RECORD OF BRIE	•	rture Point		ON AIF	PORT		
Method - N/A	SAME AS	•					
Completeness - N/A	Destinatio			Airport [
Basic Weather - VMC	SAME AS	ACC/INC			FIELD	LIBUA (NID	,
Wind Dir/Speed- 060/013 KTS	ATO / A : 12 - 12 - 1	_				UNK/NR	
Visibility - 5.0 SM	ATC/Airspac		NE		Lth/Wid -	UNK/NR UNK/NR	
Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 1500 FT (light Plan - NC				UNK/NR UNK/NR	
Obstructions to Vision- NONE		/Lndg - To		Runway	status -	UNK/ NK	
Precipitation - NONE	Туре Арсп	/ Lnug - Tu	OCH AND GO				
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 62	Mod	lical Certifica [.]	- FYDI	rED.		
Certificate(s)/Rating(s)	Biennial Flight			nt Time (F			
PRIVATE	Current	- UNK/NR				Hrs - UNK	(/NR
SE LAND		e - UNK/NR	Make/Model- UN				
SE LAND		pe - UNK/NR	Instrument- UN	JK/NR	Last 30 Last 90	Days - UNA	(/NR
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	po 0,,	Multi-Eng - U			aft - UNK	
Instrument Rating(s) - NONE							
-Narrative	uoo TN UTO DECENTIN	DUBOULOED EVEN		NIDTNO : :	AND THE LUCE	. –	
PLT WAS PRACTICING TOUCH AND GO LANDI					ANDING, WHI	LE	
15 FEET AGL, THE ACFT DROPPED TO THE R	JNWAY, BOUNCED, LAND	ED HARD AND NOS	FD OVER ONIO I	'S BACK.			

7/17/89 WASHINGTON, NC A/C Reg. No. N74849 Time (Lcl) - 1656 EDT File No. - 909 HARD LANDING Occurrence #1 Phase of Operation DESCENT - UNCONTROLLED Finding(s) 1. FLARE - IMPROPER - PILOT IN COMMAND 2. LACK OF FAMILIARITY WITH AIRCRAFT - PILOT IN COMMAND 3. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND 4. STALL - UNCONTROLLED - PILOT IN COMMAND Occurrence #2 NOSE OVER Phase of Operation LANDING - ROLL ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT INADVERTENTLY STALLED THE AIRPLANE.

File No 908 8/11/89 HEN	DERSONVILLE,NC A/C Re	g. No. N70406	Т	ime (Lc1) -	1230 EDT	
Basic Information Type Operating Certificate-NONE (GENE				Injur		
	DESTROY		Fatal	Serious		None
Type of Operation -DEMO	Fire	Crew	_	1	0	0
Flight Conducted Under -14 CFR 91	NONE	Pass	1	0	0	0
Accident Occurred During -APPROACH						
Aircraft Information						
Make/Model - DAMMANN N3-2	Eng Make/Model - MOS	LER MOTORS MMCB		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warnin	g System	- NO
Max Gross Wt - 800	Engine Type - REC		ETOR			
No. of Seats - 2	Rated Power -	55 LBS THRUST				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Departure Point		ON AIR	STRIP		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport D			
Basic Weather - VMC	LOCAL			N AIRFIELD		
Wind Dir/Speed- 340/011 KTS				Ident -		
Visibility - 12.0 SM	ATC/Airspace			Lth/Wid -		
	ATTERED Type of Flight Plan -			Surface -		IRF
Lowest Ceiling - NONE	Type of Clearance -		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		Medical Certifica			IVERS/LIM	IIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (F			
COMMERCIAL	Current - YES	Total -	860	Last 24	Hrs - UN	IK/NR
SE LAND	Months Since - 19			Last 30		
	Aircraft Type - C-140	Instrument- Multi-Eng -	O 7	Last 90	Days- UN	IK/NR
Instrument Rating(s) - NONE						
		LAND AFTED A LOSS	OF DOWED	THE TEMP/D	EW DOTAL	
Narrative	ED WHILE ON EINNE ADDDOACH ID		OF PUWER.	THE LEWIP/U	EM POINT	
E HOMEBUILT AIRCRAFT COLLIDED WITH A HANG						
E HOMEBUILT AIRCRAFT COLLIDED WITH A HANG FIO WAS 76/55. THIS WAS A DEMONSTRATION F	LT WHICH FOLLOWED A SOLO, CHEC	K OUT FLIGHT AROU	IND THE PAT	TERN AND TW	0	
E HOMEBUILT AIRCRAFT COLLIDED WITH A HANG FIO WAS 76/55. THIS WAS A DEMONSTRATION F HER DEMONSTRATION FLIGHTS. ON-SITE EXAMIN	LT WHICH FOLLOWED A SOLO, CHEC ATION REVEALED THE PRESENCE OF	K OUT FLIGHT AROU FUEL AND THAT TH	IND THE PAT IE PROPELLE	TERN AND TW R WAS TURNI	0	
E HOMEBUILT AIRCRAFT COLLIDED WITH A HANG FIO WAS 76/55. THIS WAS A DEMONSTRATION F	LT WHICH FOLLOWED A SOLO, CHEC ATION REVEALED THE PRESENCE OF R WERE REPLACED BECAUSE THE MO	K OUT FLIGHT AROU FUEL AND THAT TH UNT FOR THE CARBU	IND THE PAT IE PROPELLE IRETOR WAS	TERN AND TW R WAS TURNI BENT, THE	O NG AT	

File No 90	8/11/89	HENDERSONVILLE,NC	A/C Reg. No. N70406	Time (Lc1) - 1230 EDT
		POWER(TOTAL) – NON-MECHANICA PATTERN – FINAL APPROACH	NL .	
Finding(s) 1. FUEL SYSTEM,CARE 2. ANTI-ICE/DE-ICE		R DE-ICE - NOT INSTALLED		
Occurrence #2 Phase of Operation		NCY		
Occurrence #3 Phase of Operation		SION WITH OBJECT PATTERN - FINAL APPROACH		
Finding(s) 3. OBJECT - AIRPOR	FACILITY			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: ENGINE FAILURE DUE TO CARBURETOR ICE.

File No 825 7/04/89 MINOT	, ND	A/C Reg.	No. N5295H	Т	ime (Lcl)	- 2101 CDT	Г
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft D DESTROYED		Fatal	Inju Serious	ries Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		Fire NONE	Cre Pas	w O	1 0	0	0
Aircraft Information Make/Model - PIPER PA-16 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1525 No. of Seats - 4		ngines - 1 pe - RECIP	ING 0-235-C1 ROCATING-CARBU 8 HP	S	Installed/ Stall Warni	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/007 KTS Visibility - 30.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 9000 FT BROK Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	WATFORD Destination SAME AS ATC/Airspace Type of F1 EN Type of C1 Type Apch/	n ACC/INC e ight Plan - N earance - N 'Lndg - T	ONE	Airport OFF AI Airport D MINOT Runway Runway Runway	Proximity RPORT/STRI Data INTL / Ident / Lth/Wid / Surface / Status	P - 13 - 7493/ - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 53 Biennial Flight		dical Certific Fli	ate - VALIC ght Time (F		AIVERS/LIN	MIT
COMMERCIAL,CFI SE LAND,ME LAND GLIDER	Months Since	- YES e - 13 pe - SGS2-33	Total - Make/Model- Instrument- Multi-Eng -	10 74	Last 2 Last 3 Last 9		2 12 34
Instrument Rating(s) - AIRPLANE							
Narrative S THE PLT TURNED ON FINAL APCH TO LND, HE HE URNING ABOUT 360 DEG, IT IMPACTED THE GROUND F THE AIRFRAME TUBING AT THE LOWER FORWARD D UBING WAS PART OF THE DOOR FRAME, FIRE WALL/ UBING HAD SEPARATED PRIOR TO IMPACT. APRX 3/ AS FROM OVERLOAD, BUT NOT DUE TO IMPACT. WIT HE ENGINE (WITH POWER) WOULD MOVE UP & TO TH ORROSION, DATED 2/28/86, ADDRESSED THE HAZAR	IN A LEFT WING LOOR FRAME. THE FA ENGINE MOUNT, & FA 4 OF THE FRACTURE H THIS FAILURE, T E LEFT. PIPER SEF	OW, NOSE LOW ALLURE WAS IN RIGHT FORWARD WAS THE RESU THE LEADING ED RVICE BULLETIN	ATTITUDE. AN I THE AREA OF A LIFT STRUT SUP LT OF CORROSIO GE OF THE RIGH	NVESTIGATIC CONGLOMERAT PORT. AN EX N; THE REMA T WING WOUL	ON REVEALED TE WELD WHE (AM REVEALE AINING FRAC LD TWIST UP	A FAILURE RE THE D THE TURE WARD &	Ξ

7/04/89 File No. - 825 MINOT.ND A/C Reg. No. N5295H Time (Lc1) - 2101 CDT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. FUSELAGE, LONGERON - CORRODED 2. MAINTENANCE, SERVICE BULLETINS - NOT FOLLOWED - OTHER MAINTENANCE PSNL 3. FUSELAGE, LONGERON - FAILURE, TOTAL 4. AIRCRAFT CONTROL - NOT POSSIBLE -Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE AIRFRAME TUBING (LONGERON) AT THE LOWER FORWARD DOOR FRAME DUE TO CORROSION. A CONTRIBUTING FACTOR WAS FAILURE OF MAINTENANCE PERSONNEL TO COMPLY WITH SERVICE BULLETIN #819.

----Probable Cause----

File No 844 7/11/89 HATTO	N,ND A/C R	eg. No. N3269L	ד	fime (Lc1) - 20	030 CDT	
Basic Information Type Operating Certificate-NONE (GENERA	DESTRO		Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	Fire NONE	Crew Pass	-	0 0	1	0
Make/Model - CESSNA 172H Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4			5	Installed/Act Stall Warning		
Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point HATTON,ND		•	Proximity [RPORT/STRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 080/009 KTS	Destination LOCAL		Airport [)ata / Ident - N.	/ A	
Visibility - 15.0 SM	ATC/Airspace	NONE	Runway	Lth/Wid - N	/ A	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE		/ Surface - N, / Status - N,		
-Personnel Information Pilot-In-Command	Age - 25	Medical Certifica	to - EXDIE)FD		
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F			
PRIVATE	Current - YES	Total -	329	Last 24 H	rs -	0
SE LAND	Months Since - 5	Make/Model-		Last 30 D		3
	Aircraft Type - C-172		2 0	Last 90 D Rotorcraf	•	5 0
Instrument Rating(s) - NONE						
Narrative E ACFT HIT THE GROUND AS THE PLT WAS MAKING WAS APCHG THE FIELD FROM THE NORTH, THE AC E PLT STATED THAT AS THE ACFT WAS DESCENDING RPLANE." HE PULLED BACK ON THE YOKE & THE IL LOW ATTITUDE & WAS EXTENSIVELY DAMAGED.	FT CROSSED OVER A SHELTER B G OVER THE SHELTER BELT, "I' ACFT STARTED TO RESPOND, BU	ELT (TREES) WHICH F FELT AS IF THE B F IT HIT THE GROUN	WAS ABOUT OTTOM DROF	50 TO 60 FT T. PPED OUT OF TH	ALL. E	

File No. - 844 7/11/89 HATTON, ND A/C Reg. No. N3269L Time (Lcl) - 2030 CDT

Phase of Operation MANEUVERING

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. LOW PASS INITIATED -
- 3. WEATHER CONDITION TAILWIND
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. WEATHER CONDITION DOWNDRAFT
- 6. TERRAIN CONDITION GROUND
- 7. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE PILOT AND HIS FAILURE TO MAINTAIN SUFFICIENT CLEARANCE ABOVE THE GROUND. THE TAILWIND, HIGH OBSTRUCTION (SHELTER BELT), AND DOWNDRAFT WERE CONTRIBUTING FACTORS.

File No 967 4/21/89 ASHLA	ND, NE	A/C Reg	. No. N33066		Time (Lcl) -	2038 CDT	Γ
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL	L AVIATION)	Aircraft I SUBSTANT Fire	IAL	Fatal Crew 1	Injur Serious O	ies Minor O	None O
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		NONE		Pass 1	Ö	Ö	Ö
Aircraft Information Make/Model - PIPER J3C Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1220 No. of Seats - 2		gines - 1 pe - RECII	INENTAL C-85 PROCATING-CA 85 HP	RBURETOR	Installed/A Stall Warnir	g System	- NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC	Itinerary Last Depar WEEPING V Destination LOCAL	WATER, NE		•	Proximity IRPORT/STRIP Data		
Wind Dir/Speed- 130/007 KTS Visibility - 15.0 SM	ATC/Airspace TERED Type of Fl Type of Clo Type Apch/	ight Plan - 1 earance - 1	NONE NONE NONE	Runwa Runwa	y Lth/Wid - y Surface -		
Personnel Information Pilot-In-Command	Acc 29	M.	odical Canti	ficate - VALI	D MEDICAL NO	WATVEDS	/: TAATT
Certificate(s)/Rating(s)	Age - 38 Biennial Flight			Flight Time (WAIVERS/	LIMITI
COMMERCIAL	Current	- YES	Total		Last 24		1
SE LAND, ME LAND	Months Since		Make/Mode		Last 30	Days-	1
	Aircraft Typ	e - C-182	Instrumen Multi-Eng		Last 90 Rotorcr		4 0
Instrument Rating(s) - AIRPLANE							
Narrative							

File No. - 967 4/21/89 ASHLAND, NE A/C Reg. No. N33066 Time (Lc1) - 2038 CDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- 2. PHYSICAL IMPAIRMENT(ALCOHOL) PILOT IN COMMAND
- 3. MANEUVER PERFORMED PILOT IN COMMAND
- 4. AIRSPEED INADEQUATE PILOT IN COMMAND
- 5. STALL

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

6. LIGHT CONDITION - DUSK

- 7. ALTITUDE INADEQUATE PILOT IN COMMAND
- 8. TERRAIN CONDITION WATER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR JUDGEMENT OF THE PILOT BY FLYING WHILE PHYSICALLY IMPAIRED FROM ALCOHOL CONSUMPTION, AND HIS FAILURE TO MAINTAIN ADEQUATE AIRSPEED, WHILE FLYING OVER A MEANDERING RIVER, WHICH RESULTED IN A STALL. A CONTRIBUTING FACTOR WAS THE PILOT'S INADEQUATE ALTITUDE TO RECOVER FROM THE STALL.

File No 951 2/04/89 HAMMO	ONTON, NJ A/C	Reg. No. N6299K	Т	ime (Lc1) -	1330 EST	
Basic Information Type Operating Certificate-NONE (GENERA	AL AVIATION) Aircr	aft Damage		Injur	ies	
	MINO	R	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTIONA			ew O	1	0	1
Flight Conducted Under -14 CFR 91	NONE	Pa	ss 0	0	0	0
Accident Occurred During -TAKEOFF						
Aircraft Information						
Make/Model - CESSNA 150		CONTINENTAL 0-200-				
Landing Gear - TRICYCLE-FIXED	Number Engines -	1	S	tall Warnin	g System	- YES
Max Gross Wt - 1600	Engine Type -	RECIPROCATING-CARB	URETOR			
No. of Seats - 2	Rated Power -	100 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		nt		RPORT/STRIP		
Method - N/A	HAMMONTON, NJ			•		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		·			
Wind Dir/Speed- 010			Runway	Ident -	N/A	
Visibility - UNK/NR	ATC/Airspace		Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 4000 FT SCAT	TERED Type of Flight Pla	n - NONE	Runway	Surface -	N/A	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- STRAIGHT-IN				
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 51	Medical Certifi	cate - VALID	MEDICAL-WA	IVERS/LIM	ΙΤ
Certificate(s)/Rating(s)	Biennial Flight Review	Fl	ight Time (H	lours)		
ATP, CFI	Current - YES Months Since - 17	Total -	4069	Last 24	Hrs -	3
SE LAND, ME LAND	Months Since - 17	Make/Model-	UNK/NR	Last 30	Days- UN	
	Aircraft Type - UNK/	NR Instrument-	286	Last 90	Days-	14
		Multi-Eng -	918			
Instrument Rating(s) - AIRPLANE						
Narrative						
IE FLIGHT INSTRUCTOR AND WITH A STUDENT PILO						
POUND BIRD FLEW THROUGH THE LEFT SIDE WINDS						
IGHT INSTRUCTOR WAS NOT INJURED. THE FLIGHT	INSTRUCTOR TOOK CONTROL	OF THE AIRCRAFT, M	ADE A 180 DE	GREE TURN A	ND	
MEDIATELY LANDED.						

File No 951	2/04/89	HAMMONTON, NJ	A/C Reg. No. N6299K	Time (Lcl) - 1330 EST	
	IN FLIGHT COLLISI TAKEOFF - INITIAL			·	
Finding(s) 1. OBJECT - BIRD(S)					
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A BIRD STRIKE SHORTLY AFTER TAKEOFF.

Type Operating Certificate-NONE (GENERAL AVIATION)	File No 950 2/23/89 HAR	DING TWNP,NJ	A/C Reg. M	No. N5754J	Т	ime (Lcl) -	1830 ED	Т
Type of Operation	-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)			Fatal			None
Landing Gear - SKID	Flight Conducted Under -14 CFR 91	CORPORATE	Fire	Cre	w O	_	_	1 4
Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point	Make/Model - BELL 206B Landing Gear - SKID Max Gross Wt - 3200	Number Engine	Engines - 1 Type - TURBOSH	HAFT				
Pilot-In-Command Age - 41 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) ATP Current - YES Total - 6625 Last 24 Hrs - 3 SE LAND, ME LAND Months Since - 9 Make/Model - 3800 Last 30 Days - 40 HELICOPTER Aircraft Type - 206B Instrument - 173 Last 90 Days - 85	Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 030/018 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 20000 FT SC Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE	NG Last Dep YORK,P Destinati MORRIS ATC/Airspa ATTERED Type of Type of Type Apc	A on TOWN,NJ ce Flight Plan - COI Clearance - NOI	NE	OFF AI Airport D Runway Runway Runway	RPORT/STRIF ata Ident - Lth/Wid - Surface -	- N/A - N/A - N/A	
ATP Current - YES Total - 6625 Last 24 Hrs - 3 SE LAND, ME LAND Months Since - 9 Make/Model - 3800 Last 30 Days - 40 HELICOPTER Aircraft Type - 206B Instrument - 173 Last 90 Days - 85	Pilot-In-Command) WAIVERS	/LIMIT
SE LAND, ME LAND Months Since - 9 Make/Model- 3800 Last 30 Days- 40 HELICOPTER Aircraft Type - 206B Instrument- 173 Last 90 Days- 85					_		Hrs -	3
	SE LAND, ME LAND	Months Sin	ce - 9	Make/Model-	3800	Last 30	Days-	40
Multi-Eng - 134 Rotorcraft - 6350	HELICOPTER	Aircraft T	ype - 206B				-	85 6350
Instrument Rating(s) - AIRPLANE, HELICOPTER	Instrument Rating(s) - AIRPLANE,	HELICOPTER						

File No. - 950 2/23/89 HARDING TWNP, NJ A/C Reg. No. N5754J Time (Lc1) - 1830 EDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation DESCENT - NORMAL Finding(s) 1. FLUID, FUEL - STARVATION 2. PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND 3. FUEL CONSUMPTION CALCULATIONS - POOR - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. LIGHT CONDITION - NIGHT 5. LEVEL OFF - IMPROPER - PILOT IN COMMAND 6. TERRAIN CONDITION - DOWNHILL

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOTS ATTEMPT TO CONDUCT THE FLIGHT WITH LESS THAN REQUIRED FUEL RESULTING IN LOSS OF ENGINE POWER AND SUBSEQUENT
DAMAGE TO THE HELICOPTER WHILE PERFORMING AN AUTOROTATIVE LANDING.

----Probable Cause----

Basic Information Type Operating Certificate-NONE (GENER)	N AVIATION) Aircr	aft Damage			Injur	ies	
Type operating out this leate None (delien)	•	STANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire		Crew	0	. 0	0	1
Flight Conducted Under -14 CFR 91	NONE		Pass	0	0	0	3
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - BEECH A36	Eng Make/Model -		550-B		[nstalled/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			St	tall Warnin	g System	- YES
Max Gross Wt - 3600 No. of Seats - 6		RECIP-FUEL INJE	CTED				
No. or seats - 6	Rated Power -	300 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport F			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	G Last Departure Pot CIMARRON,NM	nt		OFF AIF	RPORT/STRIP		
Completeness - N/A	Destination		Δ	Airport Da	ata		
Basic Weather - VMC	SANTA FE,NM			PRIVATE	AIRSTRIP		
Wind Dir/Speed- CALM						23	
Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flight Pla	VED / TED			Lth/Wid -		40
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Pla Type of Clearance				Surface - Status -		
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE		Kanway	514145	DICT	
Precipitation - NONE	21 1 2						
Condition of Light - DAWN							
Personnel Information							
Pilot-In-Command	Age - 46	Medical Cert				IVERS/LIM	ΙT
Certificate(s)/Rating(s)	Biennial Flight Review			: Time (Ho		U	^
COMMERCIAL SE LAND	Current - YES Months Since - 11	Total Make/Mode	- -1-	953	Last 24	Hrs -	0 22
SE LAND	Aircraft Type - A36	Instrume	nt-	183	Last 90	Days Days-	39
		Multi-Eng	g -	11	Last 30 Last 90 Rotorcr	aft -	0
Instrument Rating(s) - AIRPLANE							
This trument Rating(s) - AIRPLANE							
Narrative							
RDING TO THE PLT AND WITNESSES, THE WINDS							
TUDE AT THE TIME OF TAKEOFF WAS APRX 8,00	OO FT. DURING THE TAKEOFF D A ROCKY AREA OFF THE SID			MB OUT OF	GROUND EF	FECT.	

File No. - 914 7/19/89 A/C Reg. No. N26208 CIMARRON.NM Time (Lcl) - 0730 MDT -----_____

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. PREFLIGHT PLANNING/PREPARATION IMPROPER PILOT IN COMMAND
- 4. PROPER CLIMB RATE NOT ATTAINED PILOT IN COMMAND
- 5. ABORT NOT PERFORMED PILOT IN COMMAND
- 6. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 7. STALL/MUSH INADVERTENT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO PROPERLY PLAN HIS FLIGHT. HE FAILED TO TAKE INTO ACCOUNT THE CHANGABLE WINDS AND THE HIGH DENSITY ALTITUDE THAT EXISTED AT THE AIRSTRIP WHEN HE ATTEMPTED TO TAKEOFF. A PROPER CLIMB RATE WAS NOT POSSIBLE AND THE AIRCRAFT STALLED/MUSHED INTO THE GROUND.

Basic Information	I AVIATION)	1:			T 4		
Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft Dam SUBSTANTIAL		Fatal	•	ries Minor	None
Type of Operation -PERSONAL		Fire	- Crew		5er 10us	M11101.	None O
Flight Conducted Under -14 CFR 91		NONE	Pass		0	2	0
Accident Occurred During -LANDING							
Aircraft Information	,						
Make/Model - BEECH A36		odel - CONTINE	NTAL 10-550-B		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng			5	Stall Warni	ng System	- YES
Max Gross Wt - 3600	Engine Type		TUEL INJECTED				
No. of Seats - 6	Rated Power	r - 300	HP				
Environment/Operations Information							
Weather Data	Itinerary				Proximity	_	
Wx Briefing - UNK/NR	Last Depart			OFF AI	RPORT/STRI	Р	
Method - ACFT RADIO	SAME AS A	CC/INC					
Completeness - WEATHER NOT PERTINENT		LIE NA		Airport [
Basic Weather - VMC Wind Dir/Speed- 020/010 KTS	ALBUQUERQI	JE, NM			FE MUNI / Ident	- 33	
the state of the s	ATC/Airspace				/ Ident / Lth/Wid		150
Visibility - 40.0 SM Lowest Sky/Clouds - 5000 FT SCAT	TERED Type of Fli	oht Dlan - NON			Surface		150
Lowest Ceiling - NONE		arance - NON				- DRY	
Obstructions to Vision- NONE	Type Apch/L		RCED LANDING	Kanway	Julia	DKI	
Precipitation - NONE	Type Apelly El	lag 101	COLD LANDING				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 60	Medi	ical Certifica			AIVERS/LI	TIM
Certificate(s)/Rating(s)	Biennial Flight R			jht Time (F			
PRIVATE	Current		Total -			4 Hrs - U	
SE LAND	Months Since		Make/Model-		Last 3		20
	Aircraft Type		Instrument- Multi-Eng -	66 1	Last 9	00 Days-	40
Instrument Rating(s) - AIRPLANE							
That differe kat hig(a)							
						KEOFF	
Narrative	DIOD TO TAKEOUS TO	IE DENCTTY ALT	ETTUDE WAS ADO	UIT 0000 FT			
Narrative PILOT STATED THAT HE LEANED THE MIXTURE F							
Narrative PILOT STATED THAT HE LEANED THE MIXTURE F ENGINE SPUTTERED AND THE PILOT INCREASED	THE MIXTURE TO FUL	L RICH. HOWEVE	ER, THE ENGINE	LOST POWE	ER AND A FO	RCED	
Narrative PILOT STATED THAT HE LEANED THE MIXTURE F	THE MIXTURE TO FUL HE OPERATOR'S MANUA	L RICH. HOWEVE L FOR THIS AIR	ER, THE ENGINE RCRAFT SPECIFI	LOST POWE	ER AND A FO AKEOFF SHOL	DRCED JLD BE	

8/13/89 A/C Reg. No. N3077X File No. - 860 SANTA FE,NM Time (Lcl) - 1330 MDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. FLUID, FUEL - STARVATION 2. MIXTURE - IMPROPER USE OF - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE MIXTURE CONTROL BY THE PILOT DURING TAKEOFF WHICH RESULTED IN FUEL STARVATION. ROUGH/UNEVEN TERRAIN CONTRIBUTED TO THE AIRCRAFT DAMAGE.

Basic Information Type Operating Certificate-NONE (GEI	NERAL AVIATION) Airo	raft Damage			Inju	ıries	
		TROYED		Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 9		e NE	Crew Pass	0	0	1: 1	0
Accident Occurred During -DESCENT	. NUN	VC.	Pass	U	U	'	0
Aircraft Information							
Make/Model - CESSNA 170A	Eng Make/Model -		300			Activated	
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2200	Number Engines - Engine Type -	· I · RECIPROCATING-	CADRUDETO		tali warn	ing System	- 152
No. of Seats - 3	Rated Power -	145 HP	CARBORLIO	N.			
Environment/Operations Information							
Weather Data	Itinerary		Α		Proximity		
Wx Briefing - NO RECORD OF BRIE	FING Last Departure Po TROY,NY	pint		OFF AI	RPORT/STRI	[P	
Completeness - N/A	Destination		Δi	rport D	ata .		
Basic Weather - IMC	TUPPER LAKE, NY		~ '	1 001 6 0			
Wind Dir/Speed-	·			Runway	Ident	- N/A	
Visibility - 50.0 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - UNK/NR	Type of Flight Pl				Surface		
Lowest Ceiling - 3000 FT (Runway	Status	- N/A	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- NONE					
Precipitation - NONE Condition of Light - NIGHT(DAR	()						
Personnel Information Pilot-In-Command	Age - 52	Medical Cer	tificate	- VALTD	MEDICAL -	NO WATVERS	'I TMTT
Certificate(s)/Rating(s)	Biennial Flight Review		Flight			TO WAITERS,	21.11
PRIVATE		Total Make/Mo		44	•	24 Hrs -	2
SE LAND	Months Since - 8	Make/Mo				30 Days-	10
	Aircraft Type - PA-	-24 Instrum	ent-	0	Last 9	90 Days-	32
Instrument Rating(s) - NONE							
Newschitz							
Narrative ACFT COLLIDED WITH TREES ABOUT 20 MIL	ES NODTH OF SPECIALATOR NEW	VODE AND MAS DE	MOI TSHED	WEATHE	D DEDODTE) AT	
TIME OF DEPARTURE WAS CLEAR SKIES. HO						7 41	
RIORATE AND THE PILOT DEVERTED TO GLE						TLI	

File No. - 942 1/01/89 SPECULATOR, NY A/C Reg. No. N1432D Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation DESCENT - EMERGENCY

Finding(s)

- OBJECT TREE(S)
- 2. LIGHT CONDITION DARK NIGHT
- 3. PREFLIGHT PLANNING/PREPARATION POOR PILOT IN COMMAND
- 4. ALTITUDE INADEQUATE PILOT IN COMMAND

5. CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

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

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INACCURATE INFLIGHT PLANNING AND DECISIONS BY THE PILOT WHO INADVERTENTLY FLEW HIS AIRCRAFT FROM VFR INTO INSTRUMENT METEOROLOGICAL CONDITIONS WHILE MAKING A DESCENT AT NIGHT.

	1/18/89 RONKO	DNKOMA, NY A/C	Reg. No. N9021M	Time (Lcl) - 1304 EST			
Basic Information Type Operating Certific	cate-NONE (GENER/	L AVIATION) Aircra	ft Damage		Injur	ies	
,, ,	·		ANTIAL	Fatal	Serious	Minor	None
Type of Operation	-BUSINESS	Fire	Crew	0	1	0	0
Flight Conducted Under		NONE	Pass	0	0	0	0
Accident Occurred Durin	ng -TAKEOFF						
-Aircraft Information							
	ON R-22HP	Eng Make/Model - L			[nstalled/Ad		
Landing Gear - SKID		Number Engines -			tall Warning	g System -	NO
Max Gross Wt - 1300			ECIPROCATING-CARBUR	RETOR			
No. of Seats - 2		Rated Power -	160 HP				
Environment/Operations In	nformation						
Weather Data		Itinerary			Proximity		
	ECORD OF BRIEFING		it	ON AIR	PORT		
Method - N/A		SAME AS ACC/INC					
Completeness - N/A		Destination		Airport Da			
Basic Weather - VMC		SHIRLEY, NY			SLAND MACART		
Wind Dir/Speed- 200/0		/				UNK/NR	
Visibility - 15		ATC/Airspace			Lth/Wid -		_
Lowest Sky/Clouds -		TERED Type of Flight Plan			Surface -		۲
Lowest Ceiling -		Type of Clearance		Runway	Status -	DRY	
Obstructions to Visio		Type Apch/Lndg	- NONE				
Precipitation	- NONE						
Condition of Light	- DAYLIGHI						
	_						_
-Personnel Information							
Pilot-In-Command		Age - 52	Medical Certifica			[VERS/LIMI	1
Pilot-In-Command Certificate(s)/Rating		Biennial Flight Review	Flic	ght Time (Ho	ours)	•	
Pilot-In-Command		Biennial Flight Review Current - YES	Flig Total -	ght Time (Ho 360	ours) Last 24	Hrs - UNK	/NR
Pilot-In-Command Certificate(s)/Rating PRIVATE		Biennial Flight Review Current - YES	Flig Total -	ght Time (Ho 360	ours) Last 24 Last 30	Hrs - UNK Days- UNK	/NR /NR
Pilot-In-Command Certificate(s)/Rating		Biennial Flight Review	Flig Total -	ght Time (Ho 360	Last 24 Last 30 Last 90	Hrs - UNK Days- UNK Days- UNK	/NR /NR

FLIGHT MB			
* * * * * * * * * * * * * * * * * * *			
USE OF - PILOT IN COM			
VITH TERRAIN/WATER			
/1	COMMAND ITH TERRAIN/WATER O	COMMAND ITH TERRAIN/WATER D	COMMAND TH TERRAIN/WATER O

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER OPERATION OF THE ROTORCRAFT FLIGHT CONTROLS AND A RESULTING LOW ROTOR RPM CONDITION.

File No 859 5/23/89 DAYTO	N, OH	A/C Reg. No. N	N5082S	Т	ime (Lcl) -	1330 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -TEST FLT Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	S Fi	rcraft Damage UBSTANTIAL re ONE		Fatal O O	Injur Serious O O	ies Minor O	None 1 0
Aircraft Information Make/Model - ROCKWELL 114 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3150 No. of Seats - 4	Eng Make/Model Number Engines Engine Type Rated Power		INJECTED	S	Installed/A tall Warnir	g System	- YES
	Itinerary Last Departure SAME AS ACC/I Destination LOCAL ATC/Airspace TERED Type of Flight CAST Type of Clearan Type Apch/Lndg	NC Plan - NONE		ON AIRI rport Da DAYTON Runway Runway Runway	ata -NEW LEBANO	04 4000/ ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND Instrument Rating(s) - NONE	Age - 67 Biennial Flight Revie Current - Y Months Since - 1 Aircraft Type - U	w ES Tota 6 M ake NK/NR Ins	Certificate Flight al - 9 e/Model- trument- UNK/ ti-Eng -	Time (He 77 5 NR	ours) Last 24 Last 30 Last 90	Days-	1 5 5 K/NR
THE PURPOSE OF THE FLT WAS TO CHECK THE AVION THAT AS HE WAS TAKING OFF WITH A LEFT X-WIND, THE STALL WARNING WAS ACTIVATED & THE PLT WAS GROUND ON THE LEFT SIDE OF THE RWY & CAME TO LANDING GEAR. THE PLT NOTED THAT THERE WAS A CERT ON 1/18/89.	THE ACFT ENCOUNTERED UNABLE TO MAINTAIN CO REST WITH DAMAGE TO BO	A GUST OR SHEA NTROL OF THE A TH WING TIPS,	AR AT ABOUT 4 ACFT. SUBSEQU THE PROP & T	O'AGL. ENTLY, HE NOSE	AT THAT TI IT CONTACTE & RIGHT MA	ME, D THE IN	

File No. - 859 5/23/89 DAYTON, OH A/C Reg. No. N5082S Time (Lc1) - 1330 EDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. WEATHER CONDITION - GUSTS 3. WEATHER CONDITION - WINDSHEAR 4. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 5. AIRSPEED - INADEQUATE - PILOT IN COMMAND 6. STALL - INADVERTENT - PILOT IN COMMAND 7. LACK OF FAMILIARITY WITH AIRCRAFT - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER COMPENSATION FOR WIND CONDITIONS AND INADEQUATE AIRSPEED WHICH RESULTED IN AN INADVERTENT STALL AFTER LIFT-OFF. THE WIND CONDITIONS AND THE PILOT'S LACK OF FAMILIARITY WITH THE ACFT WERE CONTRIBUTING FACTORS.

File No 893 6/08/89 ELYF	RIA,OH A/C R	eg. No. N2529D			- 2045 ED	
Type Operating Certificate-NONE (GENER	RAL AVIATION) Aircraf	t Damage		Inj	uries	
	SUBSTAI	NTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - PIPER PA-38-112	Eng Make/Model ~ LY				/Activated	
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			Stall Warn	ing System	- YES
Max Gross Wt - 1670	J , ,	CIPROCATING-CARBURI	TOR			
No. of Seats - 2	Rated Power -	112 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN			ON AIR	RPORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport [Data		
Basic Weather - VMC	LOCAL	~	LORAIN	N COUNTY		
Wind Dir/Speed- 020/010 KTS			Runway	/ Ident	- 07	
Visibility - 10.0 SM	ATC/Airspace		Runway	/ Lth/Wid	- 5000/	100
Lowest Sky/Clouds - 6000 FT SCA	ATTERED Type of Flight Plan	- NONE	Runway	/ Surface	- ASPHALT	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	/ Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONE		FULL STOP				
Condition of Light - DUSK						
Personnel Information						
Pilot-In-Command	Age - 44	Medical Certifica	te - VALI	MEDICAL-	WAIVERS/LII	TIM
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fligh	nt Time (H	Hours)		
PRIVATE	Current - YES	Total -			24 Hrs -	1
SE LAND	Months Since - 23 Aircraft Type - PA-28	Make/Model-	50	Last	30 Days-	1
	Aircraft Type - PA-28	Instrument-	0	Last	90 Days-	9
Instrument Rating(s) - NONE						
Narrative						
E ACFT WAS ON THE ROLL-OUT AFTER LANDING V	WHEN IT REGAN TO PULL TO THE	RIGHT SUBSEQUENTI	/ IT WFN	T OFF THE	RIGHT	
DE OF THE RWY & CAME TO REST WITH THE RIGH						
GHT MAIN GEAR HAD FAILED. THE BOLTS HAD BE						
FT HAD ACCUMULATED 2467 HRS OF FLT TIME. F						
IE ATTACHING BOLTS BE REPLACED WITH NEW HIG	SHER STRENGTH BOLTS - S/R #673	B HAD NOT REEN INCO	BRADRATEN	DN THIS M	CFT.	

File No. - 893 6/08/89 ELYRIA,OH A/C Reg. No. N2529D Time (Lc1) - 2045 EDT

Occurrence #1

MAIN GEAR COLLAPSED

Phase of Operation LANDING - ROLL

Finding(s)

1. LANDING GEAR, MAIN GEAR ATTACHMENT - SHEARED

2. MAINTENANCE, SERVICE BULLETINS - NOT FOLLOWED - COMPANY/OPERATOR MGMT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE (SHEARING) OF THE RIGHT MAIN GEAR ATTACHING BOLTS. A CONTRIBUTING FACTOR WAS: FAILURE OF THE OWNER/OPERATOR TO COMPLY WITH SERVICE BULLETIN #673B.

-Basic Information Type Operating Certificate-NONE (GENERAL				Injur	ies	
	DESTROYE		Fatal		Minor	None
Type of Operation -PERSONAL	Fire	Crew		1	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	NONE	Pass	0	0	1	0
-Aircraft Information				,		
Make/Model - TAYLORCRAFT BC12-D	Eng Make/Model - CONT	INENTAL A-65-8F		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1200	Number Engines – 1 Engine Type – RECI	PROCATING-CARBUR		tall Warnir	ng System	1 - NU
No. of Seats - 2		65 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS Method - TELEPHONE	Last Departure Point SAME AS ACC/INC		ON AIR	PURT		
Completeness - FULL	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		GATES	4.4		
Wind Dir/Speed- 250/008 KTS			Runway	Ident -	- 26	
Visibility - 7.0 SM	ATC/Airspace			Lth/Wid -	•	50
Lowest Sky/Clouds - N/A Lowest Ceiling - 2800 FT BROKE	Type of Flight Plan -				- DIRT	
Obstructions to Vision- NONE	N Type of Clearance - Type Apch/Lndg -		Runway	Status -	SOFT	
Precipitation - NONE		FULL STOP			301 1	
Condition of Light - DAYLIGHT						·
-Personnel Information Pilot-In-Command	Age - 22 N	ledical Certifica	to - VALID	MEDICAL -NO) WATVEDS	· /: TMTT
			nt Time (H		J WAIVERS	D/ FIMIII
COMMERCIAL	Current - YES	Total -			1 Hrs - L	JNK/NR
SE LAND	Months Since - 11	Make/Model-	25	Last 24 Last 30 Last 90	Days- L	JNK/NR
	Aircraft Type - C-172RG			Last 90	Days- L	JNK/NR
		Multi-Eng -	10			
Instrument Rating(s) - AIRPLANE						
ORDING TO WITNESSES, THE ACFT WAS IN A SLIG						
OLENTLY TURNED" AS IF A WING HAD STALLED. S	UBSEQUENTLY, IT CRASHED IN A			ATTITUDE. [S EVIDENT.	DUE TO	

File No. - 883 8/06/89 GARRETTSVILLE, OH A/C Reg. No. N5131M Time (Lc1) - 1300 EDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL

Finding(s)

1. AIRSPEED - INADEQUATE - PILOT IN COMMAND

2. STALL/SPIN - INADVERTENT - PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation APPROACH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT DID NOT MAINTAIN ADEQUATE AIRSPEED AND ALLOWED THE AIRCRAFT TO INADVERTENTLY ENTER A STALL/SPIN. TURBULENCE
WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Damage	<u> </u>		Injuri	es	
., per operation grant to the content of the conten		DESTROYED			Serious		None
Type of Operation -PERSONAL		Fire	Crew	0		0	1
Flight Conducted Under -14 CFR 91		ON GROUND	Pass	0	0	0	0
Accident Occurred During -CRUISE							
Aircraft Information							
Make/Model - KEENER ROTORWAY/EXEC		del - ROTORWAY/E	EXEC RW-152				
Landing Gear - TRICYCLE-FIXED	Number Engi		TAIC CARRIER		tall Warning	g System	- NO
Max Gross Wt - 1320 No. of Seats - 2		e - RECIPROCAT - 152 HP	ING-CARBURE	IUK			
No. or Seats - 2	Rated Power						
Environment/Operations Information	Thirms				No. 2011		
Weather Data Wx Briefing - NO RECORD OF BRIEF	· · · · · · · · · · · · · · · · · · ·			Airport F	Proximity RPORT/STRIP		
Method - N/A	.NG Last Departo CHILLICOTH			UFF AIR	KPURI/SIRIP		
Completeness - N/A	Destination	iL , 011		Airport Da	ata		
Basic Weather - VMC	CHILLICOTE	IE.OH		A II poi t be			
Wind Dir/Speed- UNK/NR		,		Runway Ident - N/A			
Visibility - 10.0 SM	ATC/Airspace			Runway Lth/Wid - N/A			
Lowest Sky/Clouds - CLEAR		ht Plan - NONE		Runway Surface - N/A			
Lowest Ceiling - NONE		rance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lr	idg - STRAIG					
Precipitation - NONE Condition of Light - DAYLIGHT		FORCEL	LANDING				
Condition of Light - DAYLIGHT							
Personnel Information				- VALTO	MEDICAL NO		
Pilot-In-Command Certificate(s)/Rating(s)	Age - 32 Biennial Flight Re	medical	Certificat	e - VALID t Time (Ho		WAIVERS/	LIMII
PRIVATE	Current	- VFS Tot	ringii -al -	156	last 24	Hrs -	2
SE LAND	Months Since	- 1 Mak	ke/Model-	53	Last 30	Davs-	22
HELICOPTER	Aircraft Type	- YES Tot - 1 Mak - H-300C Ins	strument-	0	Last 90	Days-	46
	,,,				Rotorcra	aft -	90
Instrument Rating(s) - NONE							
Narrative PILOT OF THE ACCIDENT HELICOPTER SMELL	ED AND SAW SMOKE IN TH	IE COCKDIT AND A	IOTED A LOW	OTI DDECCI	IDE INDICATI	ON	
ING CRUISE FLIGHT. THE PILOT PERFORMED							
THE EXHAUST MANIFOLD. TWO HANDHELD FIRE							
WERE UNSUCCESSFUL AND THE HELCIOPTER						-	

File No. - 934 8/06/89 CIRCLEVILLE,OH A/C Reg. No. N4JK Time (Lcl) - 1049 EDT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL Finding(s) 1. LUBRICATING SYSTEM, OIL LINE - RUPTURED Occurrence #2 FIRE/EXPLOSION Phase of Operation CRUISE - NORMAL Finding(s) 2. FLUID,OIL - LEAK 3. EXHAUST SYSTEM, MANIFOLD -4. FLUID OIL - FIRE Occurrence #3 FORCED LANDING Phase of Operation DESCENT - EMERGENCY ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: MATERIAL FAILURE OF AN OIL LINE ALLOWING OIL TO ESCAPE AND IGNITE AS IT TOUCHED HOT EXHAUST MANIFOLD SURFACES.

File No 854 8/13/89 WADSW	ORTH,OH A/C	A/C Reg. No. N16LL			Time (Lcl) - 2000 EDT				
Type Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBST. Fire NONE	ft Damage ANTIAL Crew Pass	0	0	Minor O O	None 2			
Aircraft Information Make/Model - PIPER PA-34-200 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4000 No. of Seats - 6	Eng Make/Model - L Number Engines - Engine Type - R	ECIP-FUEL INJECTED 200 HP	ELT S	Installed/A tall Warnir	activated ng System	- YES			
Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DUSK	CLEVELAND,OH Destination SAME AS ACC/INC ATC/Airspace TERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE - FULL STOP	ON AIR Airport D. WELTZI Runway Runway Runway Runway	ata EN SKYPARK Ident - Lth/Wid - Surface - Status -	ASPHALT	37			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 20 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - PA-34	Total - Make/Model-	te - VALID ht Time (H 870	MEDICAL-NO ours) Last 24	Hrs - Days-	'LIMIT 4 137 415			
Instrument Rating(s) - AIRPLANE									
Narrative HE INSTRUCTOR (CFI) & STUDENT PLT WERE ON A JT THE PARKING BRAKE WAS ACCESSIBLE TO BOTH DULD BE RESPONSIBLE FOR OPN OF THE NORMAL BR ERE ON THE STUDENT'S SIDE. THE CFI RPRTD "I N TOUCHDOWN SO THAT BRAKING WOULD BE LITTLE CFT STARTED PULLING TO THE LEFT AS IF SOMEON RAKE" & THE STUDENT INDCD HE DID NOT APPLY B ING HIT THE TIRE OF ANOTHER ACFT. AN EXAM OF JULTI-ENG RATING ON 7/23/89. HE HAD ONLY 40 H	PLTS. THE CFI ALLOWED THE AKES. DRG THE APCH TO LND, FLEW THE AIRPLANE AT THE NOR ALMOST NONE AT ALL." TE HAD LOCKED UP THE LEFT BRAKING. THE ACFT SLID SIDE THE BRAKES REVEALED NO SI	STUDENT TO OCCUPY T THE CFI REMINDED T DRMAL APPROACH SPEE HE APCH WAS NORMAL RAKE." THE CFI TOL WAYS, THE LEFT MAIN GN OF A MALFUNCTION	HE LEFT FRI HE STUDENT DS AND SLO UNTIL TOUC D THE STUD GEAR COLL . THE CFI	ONT SEAT WHE THAT THE EWED IT RIGHHOWN, "THE ENT TO "GETAPSED & THE HAD JUST RO	HERE HE BRAKES HT DOWN EN THE OFF THE E LEFT CVD HIS				

File No. - 854 8/13/89 WADSWORTH, OH A/C Reg. No. N16LL Time (Lc1) - 2000 EDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 2. BRAKES(NORMAL) - NOT POSSIBLE - PILOT IN COMMAND(CFI) 3. DIRECTIONAL CONTROL - NOT MAINTAINED -4. LACK OF RECENT EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND(CFI) LACK OF TOTAL EXPERIENCE - DUAL STUDENT 6. GROUND LOOP/SWERVE - UNCONTROLLED -Occurrence #2 GEAR COLLAPSED Phase of Operation LANDING Finding(s) 7. LANDING GEAR, MAIN GEAR - OVERLOAD Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING Finding(s) 8. OBJECT - AIRCRAFT PARKED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SUPERVISION OF THE FLIGHT BY THE PILOT-IN-COMMAND (CFI) WHICH RESULTED IN LOSS OF DIRECTIONAL CONTROL OF THE AIRCRAFT. CONTRIBUTING FACTORS WERE: LACK OF RECENT EXPERIENCE IN THE TYPE OF OPERATION BY THE CFI, LACK OF TOTAL EXPERIENCE BY THE STUDENT PILOT, AND THE PARKED AIRCRAFT.

File No 865 9/22/89 MEDINA	A,OH A/C Re	g. No. N9332L	Τ.	ime (Lcl) -	1745 ED	Γ
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION) Aircraft	Damage		Injur	ies	
**	SUBSTAN		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew	0	.0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	0
Aircraft Information						
Make/Model - AMERICAN AA-1A	Eng Make/Model - LYC			installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			all Warnin	g Syst em	- YES
Max Gross Wt - 1500	Engine Type - REC		FOR			
No. of Seats - 2	Rated Power -	108 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport F	•		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	NORWALK, OH		ON AIR	PORT		
Completeness - N/A	Destination	•	Airport Da			
Basic Weather - IMC	SAME AS ACC/INC			FREEDOM FI		
Wind Dir/Speed- 040/006 KTS	ATO / A :		•		09	400
Visibility - 2.000 SM Lowest Sky/Clouds - PART OBS	ATC/Airspace Type of Flight Plan -	NONE		Lth/Wid - Surface -		100
Lowest Sky/Crodds FART 0BS Lowest Ceiling - 500 FT BROKE	,,			Status -		
Obstructions to Vision- FOG	Type of Crearance		Kullway	Status	WEI	
Precipitation - RAIN	Type Apony Enag	1022 3101				
Condition of Light - DAYLIGHT						
Pilot-In-Command	Age - 36	Medical Certificate	- VALID	MEDICAL-NO	WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	t Time (Ho	ours)		
PRIVATE	Current - YES	Total -	321	Last 24		1
SE LAND	Months Since - 19					8
	Aircraft Type - PA-28	Instrument-	3	Last 90	Days-	23
Instrument Rating(s) - NONE						
Namativa						
Narrative	IN THE DIT ENCOUNTEDED WINE	THEREIL ENGE 9 LIEA	// DATAL CI	IOWEDC AND	LIAD	
TER ARRIVING AT MEDINA, ON A FLT FROM NORWAL FFICULTY FLYING THE ACFT. HE MADE GO-AROUNDS						
RPOISED AFTER TOUCHDOWN. THE PLT APPLIED PO						
Y DOWN THE RWY. THE PLT ELECTED TO CONTINUE						
	=:::, :::-	3				
E RWY, THE ACFT HIT SHRUBS & WAS DAMAGED.						

File No. - 865 9/22/89 MEDINA, OH A/C Reg. No. N9332L Time (Lcl) - 1745 EDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH Finding(s) 1. PREFLIGHT BRIEFING SERVICE - NOT USED - PILOT IN COMMAND 2. WEATHER CONDITION - LOW CEILING 3. WEATHER CONDITION - FOG 4. WEATHER CONDITION - RAIN 5. WEATHER CONDITION - TURBULENCE 6. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND Occurrence #2 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. FLARE - IMPROPER - PILOT IN COMMAND 8. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND 9. PORPOISE - INADVERTENT - PILOT IN COMMAND Occurrence #3 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 10. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND Occurrence #4 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 11. TERRAIN CONDITION - HIGH VEGETATION ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S IMPROPER FLARE AND RECOVERY FROM A BOUNCED LANDING AND HIS IMPROPER PLANNING/DECISION WHICH RESULTED IN A
SITUATION FROM WHICH AN OVERRUN OCCURRED. CONTRIBUTING FACTORS WERE: THE WEATHER CONDITIONS, FAILURE OF THE PILOT TO
OBTAIN A WEATHER BRIEFING, HIS CONTINUED FLIGHT INTO ADVERSE WEATHER (IMC), AND HIS INADVERTENT ENTRY INTO A PORPOISE
DURING THE LANDING.

File No 879 9/24/89 LEBAN	ON,OH A/C Re	g. No. N5 5 357		Fime (Lc1) -	1825 EDT	
-Basic Information Type Operating Certificate-NONE (GENERA		9	F-4-3	Injur		Ne
Town of Open tion	SUBSTAN		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew	0	0	0	1 3
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	3
-Aircraft Information						
Make/Model - PIPER PA-28-180	Eng Make/Model - LYC	DMING 0-360-A4A	ELT	Installed/A	ctivated	- YES/YE
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			Stall Warnin	g System	- YES
Max Gross Wt - 2450	Engine Type - REC	IPROCATING-CARBURE	TOR		-	
No. of Seats - 4	Rated Power -	180 HP				
-Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - FSS	Last Departure Point		ON AI	RPORT		
Method - TELEPHONE	TIFFIN,OH					
Completeness - WEATHER NOT PERTINENT	Destination		Airport I	Data		
Basic Weather - VMC	SAME AS ACC/INC		LEBAN	ON-WARREN CO	UNTY	
Wind Dir/Speed- 050/008 KTS	•		Runwa	/ Ident -	36	
Visibility - 10.0 SM	ATC/Airspace			, / Lth/Wid -	4000/	65
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		/ Surface -		
Lowest Ceiling - NONE	Type of Clearance -			•	DRY	
Obstructions to Vision- NONE	, .	FULL STOP		, 014140	J	
Precipitation - NONE	,) po	. 522 5.5.				
Condition of Light - DAYLIGHT						
-Personnel Information Pilot-In-Command	Age - 41	Medical Certificat	e - VALII	O MEDICAL-NO	WAIVERS/	'I IMIT
Certificate(s)/Rating(s)	Biennial Flight Review		nt Time (
PRIVATE	Current - YES	Total -		Last 24	Hrs -	2
SE LAND	Months Since - 0	Make/Model-	17			19
OL EMB	Aircraft Type - PA-28	Instrument- UN		Last 30 Last 90	Davs-	19
	An oral citypo The 25	Multi-Eng -		Rotorcr		O
Instrument Rating(s) - NONE						
PLT RPRTD THAT DURING AN APCH TO LAND, HE	WAS FOLLOWING SLOW TRAFFTO	HE SAID HE MAINT	INFD SLO	W FIT ON FIN	IAI APCH	
IL THE PRECEDING ACFT CLEARED THE RWY. HE						
T DROPPED TO THE RWY. THE PLT MAINTAINED F						
RSPEED/ALTITUDE. THE ACFT HIT THE GROUND AG						
	ATH & THE LANDING GLAR COLLA	FULL THE ACT	, SCID A	UNUSS A FARA		
IWAY & CAME TO A STOP.						

File No. - 879 9/24/89 LEBANON, OH A/C Reg. No. N55357 Time (Lc1) - 1825 EDT HARD LANDING Occurrence #1 Phase of Operation LANDING Finding(s) 1. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND 2. REMEDIAL ACTION - DELAYED - PILOT IN COMMAND 3. LEVEL OFF - NOT POSSIBLE -4. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ABORTED Finding(s) 5. RECOVERY FROM BOUNCED LANDING - INITIATED -6. ABORTED LANDING - ATTEMPTED - PILOT IN COMMAND 7. AIRSPEED - INADEQUATE - PILOT IN COMMAND 8. STALL - INADVERTENT - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #3 Phase of Operation LANDING - ABORTED ______

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT ALLOWED HIS FINAL APPROACH AIRSPEED TO GET TOO SLOW, HE DELAYED IN INITIATING REMEDIAL ACTION, THEN
ATTEMPTED AN ABORTED LANDING WITH INADEQUATE AIRSPEED, WHICH RESULTED IN AN INADVERTENT STALL. THE PILOT'S LACK
TOTAL EXPERIENCE WAS CONSIDERED A POSSIBLE CONTRIBUTING FACTOR.

File No 959 1/09/89 PAWH	USKA,OK	A/C Reg. No. N	N4521S	7	ime (Lcl) -	1710 CST	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	·	Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal O O	Injur Serious O O	ies Minor O O	None 1 0
Aircraft Information Make/Model - BEECH V35B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 4	Eng Make/Mode Number Engine Engine Type Rated Power	el - CONTINENTAL es - 1 - RECIP-FUEL - 285 HP			Installed/A Stall Warnin		
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 160/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 8000 FT SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Type of Clear	DK D t Plan - NONE ance - NONE g - FORCED	Α	OFF AI irport E PAWHUS Runway Runway Runway Runway	SKA, OK / Ident - / Lth/Wid - / Surface - / Status -	N/A N/A GRASS/TU	RF
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Months Since - Aircraft Type -	Medical iew YES Tota 22 Make T-210 Inst Mult	Certificate Flight	e - VALIC Time (F 565) MEDICAL-NO Hours) Last 24	Hrs - UN	K/NR
	E WAS ADVANCED THERE I SHUTTING OFF THE FUEL	OPEN AND THE PI	. THE FUEL S	OM THE L	EFT SEAT TO		

Time (Lcl) - 1710 CST File No. - 959 1/09/89 PAWHUSKA, OK A/C Reg. No. N4521S

LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE - NORMAL

Finding(s)

1. FUEL SYSTEM, SELECTOR VALVE - SWITCHED OFF

- 2. FUEL TANK SELECTOR POSITION INADVERTENT ACTIVATION PILOT IN COMMAND
- 3. FLUID, FUEL STARVATION
- 4. FUEL TANK SELECTOR POSITION NOT CORRECTED PILOT IN COMMAND
- 5. EMERGENCY PROCEDURE NOT PERFORMED PILOT IN COMMAND

Occurrence #2 FORCED LANDING

Phase of Operation DESCENT - EMERGENCY

Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL

Finding(s)

6. TERRAIN CONDITION - ROUGH/UNEVEN

- 7. LIGHT CONDITION DUSK
- 8. OBJECT FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL TANK SELECTOR VALVE BEING INADVERTENTLY SWITCHED OFF AND THE PILOT'S EMERGENCY PROCEDURES INADEQUATE IN DISCOVERING AND CORRECTING THE PROBLEM. THIS RESULTED IN THE FUEL STARVATION RELATED POWER LOSS. CONTRIBUTING TO THE ACCIDENT WAS THE ROUGH TERRAIN ON WHICH THE FORCED LANDING WAS PERFORMED AND THE FENCE WHICH WAS CONTACTED.

File No 1000 5/26/89 ARDMORE	,oK	A/C Reg	. No. N2202C	-	Time (Lcl) -	1715 CDT	
Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft			Injuri	es	
		SUBSTANT	IAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTIONAL		Fire	-	rew O	0	0	2
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Р	ass 0	0	0	0
Aircraft Information Make/Model - BELL 47D-1	Eng Make/M	 odel - FRAN	 KLIN 210	ELT	Installed/Ac	ctivated	- NO -N/A
Landing Gear - SKID	Number Eng	ines - 1	KLIN 210	•	Stall Warning		
Max Gross Wt - 2200			PROCATING-CAR	BURETOR			
No. of Seats - 2	Rated Powe	r - 2	10 HP				
Environment/Operations Information							
Weather Data	Itinerary			•	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depart			ON AII	RPORT		
Method - N/A	SAME AS A	CC/INC					
Completeness - N/A	Destination			Airport (
Basic Weather - VMC Wind Dir/Speed- 350/013 KTS	LOCAL				RE DOWNTOWN	LINUX /NID	
Visibility - 10.0 SM	ATC/Airspace				/ Ident - / Lth/Wid -		
Lowest Sky/Clouds - CLEAR		aht Dlan -	NONE		/ Surface -		IDF
Lowest Ceiling ~ 1500 FT BROKEN	Type of Fli Type of Cle	arance -	NONE		/ Status -		· Ki
Obstructions to Vision- NONE	Type Apch/Li			Kanna.	, 5 ta ta 5		
Precipitation - NONE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SIMULATED FOR	CED LANDING			
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command /	lge - 24	М	edical Certif	icate - VALI	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	eview		light Time (Hours)		
COMMERCIAL, CFI	Current	- UNK/NR	Total	- 343	Last 24	Hrs -	1
SE LAND	Months Since				Last 30	Days- UN	IK/NR
HELICOPTER	Aircraft Type	- UNK/NR	Instrument	- 48	Last 90		
					Rotorcra	ıft -	95
Instrument Rating(s) - NONE							
Narrative							
ACFT WAS DAMAGED AS A RESULT OF A HARD LNDG DUFBY THE CFI TO THE STUDENT PLT. WINDS HAD INCREATED HAVING A HARD TIME CONTROLLING THE ACFT, WHEN	ASED DURING THE INTERPRETATION OF THE CFI DECIDED TO	NSTRUCTIONA O DEMONSTAR	L FLT TO THE TE AUTOROTATI	PT THAT THE S	STUDENT WAS THE 2ND AUTO,		
THE ACFT DEVELOPED A HIGH SINK RATE DURING FINA THE CFI STATED THAT THE WINDS WERE NORTHERLY A ACCIDENT.							

File No. - 1000 5/26/89 ARDMORE, OK A/C Reg. No. N2202C Time (Lcl) - 1715 CDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND

- 2. AUTOROTATION PERFORMED PILOT IN COMMAND
- 3. WEATHER CONDITION GUSTS

Occurrence #2 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 4. REMEDIAL ACTION INADEQUATE PILOT IN COMMAND
- 5. POWER ON LANDING NOT PERFORMED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FLIGHT INSTRUCTOR FAILED TO RECOGNIZE THAT THE AIRCRAFT WAS DEVELOPING A DANGEROUS SINK RATE DURING THE AUTOROTATION AND TAKE CORRECTIVE ACTION BY EXECUTING A POWER RECOVERY. CONTRIBUTING TO THE ACCIDENT WERE THE GUSTY WIND CONDITIONS.

File No 885 6/12/89 CHEMUI	_T,OR	A/C Reg. N	o. N1365E	Т	ime (Lcl) -	1600 PDT	
Basic Information Type Operating Certificate-NONE (GENERAL		Aircraft Dam DESTROYED	•	Fatal		Minor	None
Type of Operation -AERIAL OBSER' Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	/ATION	Fire NONE	Cre Pas	_	1 0	O 1	0
Aircraft Information							
Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Eng	e - RECIPRO	CATING-CARBU	5	Installed/Ac Stall Warning		
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	SUNRIVER,			OFF AI	Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/008 KTS	Destination KLAMATH F	ALLS,OR		Airport [N/A	
Visibility - 30.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - N/A Lowest Ceiling - 15000 FT BROKI Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	N Type of Cle	ght Plan - NON arance - NON ndg - NON	E		/ Surface - / Status -		
-Personnel Information Pilot-In-Command	Age - 63	Medi	cal Certific	ate - VALIC	MEDICAL-NO	WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	eview	Flig	ght Time (F		11	
ATP,CFI SE LAND,ME LAND	Biennial Flight R Current Months Since	- YES - 11	Total - Make/Model-	2000	Last 24 Last 30	Hrs - Davs-	6 22
,	Aircraft Type	- C-172	Instrument-	1547	Last 90 Rotorcra	Days-	49 22
Instrument Rating(s) - AIRPLANE							
Narrative E PLT & PASSENGER WERE CONDUCTING AN EAGLE: COUNT NEWLY HATCHED EAGLETS, BUT WERE UNSUE EN THE ACFT ENCOUNTERED DOWNDRAFTS. HE SAID AVOID IMPACT WITH TREES. THE TERRAIN IN THE SEBURG, OR, THE 1548 PDT WIND WAS FROM 340 (CCESSFUL. THE PLT HE APPLIED FULL P AT AREA SLOPED UPW	DESCENDED TO A OWER, BUT WAS ARD TO THE NOR	BOUT 400 FT UNABLE TO ST TH TO A BUTT	AGL & WAS O OP A RAPID E. ABOUT 52	ON THE 2ND PA DESCENT IN T 2 MI WEST AT	ASS, TIME	

File No. - 885

6/12/89

CHEMULT.OR

A/C Reg. No. N1365E

Time (Lcl) - 1600 PDT

ALTITUDE DEVIATION. UNCONTROLLED

Phase of Operation MANEUVERING

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. LOW PASS PERFORMED -
- 3. WEATHER CONDITION DOWNDRAFT

IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING

Finding(s)

- 4. REMEDIAL ACTION DELAYED PILOT IN COMMAND
- 5. DIVERTED ATTENTION PILOT IN COMMAND
- 6. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 7. OBJECT TREE(S)
- 8. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER INFLIGHT PLANNING/DECISION BY THE PILOT, WHICH RESULTED IN A SUDDEN ALTITUDE DEVIATION, AND HIS DELAY IN INITIATING REMEDIAL ACTION TO MAINTAIN CLEARANCE FROM THE TREES. CONTRIBUTING FACTORS WERE THE DOWNDRAFTS, HIGH DENSITY ALTITUDE, THE PILOT DIVERTING ATTENTION, AND THE TREES.

Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION) Aincha	ft Damage		Injur	ies	
Type operating certificate None (denemal		ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Cre		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pas	s O	0	O	3
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 180J	Eng Make/Model - C			Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			Stall Warnin	ng System	- YES
Max Gross Wt - 2800		ECIPROCATING-CARBU	RETOR			
No. of Seats - 4	Rated Power -	230 HP				
Environment/Operations Information	This areas		A 4	D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poin	.	Airport ON AI	Proximity		
Method - N/A	CARROLLTON.OH	τ	UN AI	RPURT		
Completeness - N/A	Destination		Airport (12+2		
Basic Weather - VMC	SAME AS ACC/INC		•	BIA METROPOL	TTAN	
Wind Dir/Speed- 020/008 KTS	3AME A3 A00/1110				UNK/NR	
Visibility - 4.000 SM	ATC/Airspace			/ Lth/Wid -		150
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan	- IFR		/ Surface -		
	AST Type of Clearance				DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
	Age - 50	Medical Certific			IVERS/LI	MIT
, ,, , , , , , , , , , , , , , , , , , ,	Biennial Flight Review		ght Time (F	•	11	0
ATP, CFI	Current - YES	Total -		Last 24		9
SE LAND, ME LAND	Months Since - 10 Aircraft Type - C-80J	Make/Model- Instrument-		Last 30 Last 90	Days-	38 111
	Aircraft Type - C-800	Multi-Eng -	737 38	Rotorcr		0
		Martiseng	38	KO LOI CI	ait -	U
Instrument Rating(s) - AIRPLANE						
Narrative					_	
E RT MAIN LANDING GEAR COLLAPSED AND SEPARATE					ιГ	
E ANT-20A ATTACHMENT BOLT & MS20365-720C NUT						
EN LOOSE PRIOR TO THE FAILURE. EXAMINATION OF	. THE MIKELANE FAMO KENEW	FED MO ENIKTED HEK	LATINING IO	KI MLG		

File No. - 956 3/04/89

W. COLUMBIA, SC

A/C Reg. No. N601RF

Time (Lc1) - 1254 EST ______

Occurrence #1

MAIN GEAR COLLAPSED

Phase of Operation LANDING - ROLL

Finding(s)

- 1. LANDING GEAR, MAIN GEAR ATTACHMENT UNDERTORQUED
- 2. MAINTENANCE, INSTALLATION IMPROPER UNKNOWN
- 3. LANDING GEAR, MAIN GEAR ATTACHMENT STRIPPED THREAD
- 4. LANDING GEAR, MAIN GEAR ATTACHMENT SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER TORQUING OF THE ATTACHMENT BOLT DURING INSTALLATION BY UNKNOWN PERSON(S), WHICH RESULTED IN THE SEPARATION OF THE BOLT AND NUT AND SUBSEQUENT SEPARATION OF THE MAIN LANDING GEAR FROM THE AIRPLANE.

File No 858 6/02/89 MYRTLE	BEACH, SC	A/C Reg.	No. N1652G	T	Time (Lcl)	- 1330 ED	т
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BANNER TOW Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	. AVIATION)	Aircraft Da SUBSTANTI Fire NONE		_		uries Minor O O	None 1 0
Aircraft Information Make/Model - CHAMPION 7GCBC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 2	Eng Make/Mo Number Engi Engine Type Rated Power	nes - 1 - RECIP	ING 0-320-A2B ROCATING-CARBUR O HP	ETOR	Installed/ Stall Warn	ing System	
Environment/Operations Information Weather Data Wx Briefing - NWS Method - ACFT RADIO Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 150/010 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departu SAME AS AC Destination LOCAL ATC/Airspace ERED Type of Flig Type of Clea Type Apch/Ln	C/INC ht Plan - N rance - N dg - T		ON AIR Airport DE BARNST Runway Runway Runway		- 23 - 2000/ - GRASS/T	
	Age - 23 Biennial Flight Re Current Months Since Aircraft Type	view - YES - 2	dical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ht Time (F 852	dours) Last 2 Last 3	WAIVERS/LI 24 Hrs - 30 Days- 30 Days-	MIT 0 100 142
Instrument Rating(s) - AIRPLANE							
AFTER DROPPING A BANNER, THE PLT ELECTED TO MATOUCHDOWN, THE ACFT ENCTRD A DOWNDRAFT & HE IN ACFT CONTACTED THE RWY TAIL 1ST & BOUNCED. SUE NOSED OVER IN AN ADJACENT BEAN FIELD. AN EXAM RELEASE MECHANISMS). THE BANNER RELEASE SYS HAT (ADVISORY CIRCULAR 43.13-2A WAS USED AS A GUIE MULTIPLE HOOK SYS). THE PLT RPRTD THE WIND WAS 1355 EDT WIND WAS FROM 150 DEG AT 10 KTS.	ICREASED BACK PRESS SEQUENTLY, IT SWER OF THE ACFT REVEAL ND RECENTLY BEEN MO DE FOR THIS INSTLN,	URE ON THE VED UNCONTRI ED THE RUDD DIFIED FROM ALTHO IT D	CONTROL STICK T DLLABLY TO THE ER WAS JAMMED T A SINGLE HOOK ID NOT CONTAIN	O BREAK TH LEFT, WENT O THE LEFT TO A MULTI INSTRNS FO	HE DESCENT. FOFF THE FOFT (BTN THE FOLE HOOK SOOR INSTLN (. THE RWY & #1 & #2 SYS. DF A	

File No. - 858 6/02/89 MYRTLE BEACH.SC A/C Reg. No. N1652G Time (Lc1) - 1330 EDT Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - UNFAVORABLE WIND 2. WEATHER CONDITION - GUSTS 3. WEATHER CONDITION - DOWNDRAFT 4. FLARE - IMPROPER - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. GLIDER LAUNCH/TOW EQUIPMENT - OVERLOAD 6. FLIGHT CONTROL, RUDDER - JAMMED 7. DIRECTIONAL CONTROL - NOT POSSIBLE -8. GROUND LOOP/SWERVE Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 9. TERRAIN CONDITION - CROP 10. TERRAIN CONDITION - SOFT ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE/LEVEL-OFF FOR LANDING BY THE PILOT. THE WIND AND TERRAIN CONDITIONS WERE CONTRIBUTING FACTORS.

File No 962 6/03/89 N. MY	RTLE BEACH, SC	A/C Reg.	No. N6367G	Т	ime (Lc1)	- 1640 ED	Г
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft [DESTROYE		Fatal	Inju Serious	ries Minor	None
Type of Operation -OTHER WORK L Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	JSE	Fire ON GROUND	Cr) Pa		0	0	0
Aircraft Information Make/Model - CESSNA 150K Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2		ngines - 1 pe - RECIA	MING 0-320-D2G PROCATING-CARB 50 HP	URETOR	Installed/ Stall Warni	ng System	
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - ACFT RADIO Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 190/012 KTS Visibility - 5.0 SM Lowest Sky/Clouds - 5000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar SAME AS Destination LOCAL ATC/Airspace TERED Type of F1 Type Apch/	ACC/INC e ight Plan - N earance - N		Airport OFF AI Airport E GRAND Runway Runway Runway Runway	Proximity RPORT/STRIM Data STRAND	- 23 - 5996/ - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Riennial Flight		edical Certifi Fl Total - Make/Model- Instrument- Multi-Eng -	ight Time (F 634 200 8	Hours) Last 2 Last 30	4 Hrs - Ul	NK/NR NK/NR
Instrument Rating(s) - AIRPLANE							
THE PILOT HAD MADE A MULTIPLE TOW FLIGHT OF A FUEL. AFTER REFUELING, HE MADE ONE TOW OF O.S RIGHT TRAFFIC TO DROP THE BANNER ALONGSIDE RUARISHT TURN ACROSS THE INLAND WATERWAY. THE A STEEP RIGHT BANK, THEN "ENTER INTO A RIGHT THE CRASH SITE. ONE BANNER PICK UP HOOK WAS FOPEN POSITION. THE COCKPIT BANNER RELEASE CON WAS MOUNTED ON THE FLOOR IN FRONT OF THE RIGHT	HOUR BEFORE RETUINWAY 23 AT GRAND BANNER THEN DROPF SPIRAL INTO THE TOUND IN THE WRECK	JRNING TO DROF STRAND. THE E PED INTO THE V REES". AFTER (AGE AND ALL F	P THE BANNER: BANNER DID NOT WATER. THE AIR ABOUT 4-5 MIN FIVE BANNER TO	HE HAD BEEN DROP AND TH PLANE WAS OE UTES SMOKE W W HOOKS WERE	CLEARED FOI HE PILOT MAI BSERVED TO I WAS OBSERVEI E FOUND IN	DE MAKE D AT	

File No. - 962 6/03/89 N. MYRTLE BEACH, SC A/C Reg. No. N6367G Time (Lcl) - 1640 EDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 1. SIGN TOWING EQUIPMENT - UNMARKED 2. MANEUVER - ABRUPT - PILOT IN COMMAND ACFT/EQUIP, INADEQUATE CONTROL LOCATION - COMPANY/OPERATOR MANAGEMENT 4. AIRSPEED - INADEQUATE - PILOT IN COMMAND 5. FATIGUE - PILOT IN COMMAND 6. STALL/SPIN - INADVERTENT - PILOT IN COMMAND 7. DIVERTED ATTENTION - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. OBJECT - TREE(S) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S CONFUSION AND DIVERTED ATTENTION REGARDING THE MULTIPLE BANNER RELEASE SYSTEM IN THE COCKPIT RESULTING IN
AN INADVERTENT STALL/SPIN INTO THE TERRAIN FROM A LOW ALTITUDE. ALSO CAUSAL WAS THE PILOT ATTEMPTING THE ABRUPT
MANEUVER AT THE LOW AIRSPEED AND ALTITUDE.

File No 961 6/20/89 GAST	DN,SC	A/C Reg.	No. N78TW	Т	ime (Lcl)	- 1642 ED	Γ
Basic Information Type Operating Certificate-NONE (GENER, Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	AL AVIATION)	Aircraft Da DESTROYED Fire IN FLIGHT	mage Crew Pass	Fatal 1 3	Inj Serious O O	uries s Minor O O	None O O
Aircraft Information Make/Model - BEECH B-60 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6725 No. of Seats - 6	Eng Make/M Number Eng Engine Typ Rated Powe	ines - 2 e - RECIP-	NG TID-5410E1C4 FUEL INUECTED HP			d/Activated ning System	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 110/007 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 4000 FT BROM Obstructions to Vision- NONE Precipitation - RAIN Condition of Light - DAYLIGHT		NC CE,FL ght Plan - IF arance - IF	R	OFF AI Airport C COLUME Runway Runway Runway	Proximity RPORT/STF Pata IA METRO Ident Lth/Wid Surface Status	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE ME LAND	Age - 49 Biennial Flight R Current Months Since Aircraft Type	eview - YES - 4	ical Certifica Fligh Total - Make/Model- Instrument- Multi-Eng -	nt Time (F 1290 26 159	lours) Last Last	-WAIVERS/LII 24 Hrs - 30 Days- 90 Days-	MIT O 6 17
Instrument Rating(s) - AIRPLANE Narrative KFTER OBTAINING A WEATHER BRIEFING IN WHICH IN ROUTE OF FLIGHT, THE PILOT ELECTED TO DEPART VITNESSES INDICATED THE PRESENCE OF THUNDERS' ELEARANCE FROM CHARLOTTE, THE PILOT WAS ISSU DEVIATED AROUND AT LEAST ONE THUNDERSTORM WHIS REQUESTED ALTITUDE OF 17,000 FEET AND HAVE DESCENT AND THEN WAS LOST. WITNESSES ON THE INVIDENCE INDICATED THAT THE HORIZONTAL TAIL IN AIRPLANE. NO EVIDENCE OF SEPARATION DUE TO ST	HIS HOME AIRPORT O TORMS ADJACENT TO T ED HIS IFR CLEARANC ILE APPROACHING COL O REACHED 16,400 WH GROUND REPORTED SEE HAD SEPARATED FOLLO	N A PERSONAL HE AIRPORT. A E WHEN APPROA UMBIA. THE PI EN THE RADAR ING THE AIRPL WED BY THE WI	FLIGHT. AT THE FTER TRYING TO CHING COLUMBIA LOT HAD BEEN C RETURN WAS OBSI ANE EXIT THE C NGS AND OTHER	TIME OF DOMESTALE OF THE LEARED TO ERVED TO LOUDS IN F	EPARTURE, S IFR PILOT HAD CLIMB TO NDICATE A		

6/20/89 File No. - 961 GASTON, SC A/C Reg. No. N78TW Time (Lc1) - 1642 EDT Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CLIMB - TO CRUISE Finding(s) 1. WEATHER CONDITION - THUNDERSTORM, LEVEL III 2. WEATHER EVALUATION - INADEQUATE - PILOT IN COMMAND 3. FLIGHT INTO KNOWN ADVERSE WEATHER - ATTEMPTED - PILOT IN COMMAND 4. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND 6. IN FLIGHT WEATHER AVOIDANCE ASSISTANCE - NOT USED - PILOT IN COMMAND OVER CONFIDENCE IN AIRCRAFT'S ABILITY - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. REMEDIAL ACTION - NOT PERFORMED - PILOT IN COMMAND 9. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #3 Phase of Operation DESCENT - UNCONTROLLED Finding(s) 10. DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #4 Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT EXERCISED QUESTIONABLE JUDGEMENT IN INITIATING A FLIGHT INTO AN AREA OF KNOWN THUNDERSTORMS. FURTHER, EITHER DELIBERATELY OR INADVERTANTLY ENTERED A THUNDERSTORM AND OVERSTRESSED THE AIRFRAME STRUCTURE RESULTING IN AN INFLIGHT SEPARATION OF THE AERODYNAMIC SURFACES.

File No 911 7/08/89 HOLL	Y HILL,SC	A/C Reg. No.	N4594T	Т	ime (Lcl):	- 1115 EDT	
Basic Information Type Operating Certificate-NONE (GENER. Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Aircraft Damage SUBSTANTIAL Fire NONE	Crew Pass	Fatal O O	Inju Serious O O		None 1 1
Aircraft Information Make/Model - PIPER PA28-140 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2050 No. of Seats - 4	Eng Make/N)-320	ELT :	Installed// tall Warni		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 280/015 KTS Visibility - 5.0 SM Lowest Sky/Clouds - 25000 FT THIS Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SUMMERVII Destination SAME AS A ATC/Airspace N BKN Type of F1 Type of Cle	LLE,SC ACC/INC		ON AIRI Airport Da HOLLY I Runway Runway Runway	ata HILL Ident Lth/Wid Surface		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Biennial Flight I Current	Review	tal -	t Time (Ho 1597		4 Hrs - D Days-	LIMIT 1 15 29
Instrument Rating(s) - NONE Narrative THE PILOT REPORTED THAT AFTER THE SHORT FLIG A CIRCUIT OF THE FIELD. HE NOTED THE WIND TO SHORT FIELD APPROACH TO RUNWAY 22. AFTER CLE. NOSE. HE CROSSED THE THRESHOLD AT 150 TO 175 FEET OFF THE GROUND. AT THAT TIME HE STATED TO DROP AND HE APPLIED FULL POWER. THE AIRPL	BE FROM 250 DEGREI ARING TREES ON THE FEET AND WHEN 1200 THAT HE OBSERVED TI	ES AT 10-15 KTS B) APPROACH, HE STEE D FT PAST THE THRE HE WINDSOCK TO SHI	Y THE WINDSO EPENED THE D ESHOLD, THE IFT 180 DEGR	CK. HE SE' ESCENT BY AIRPLANE ! EES. THE !	T UP FOR A LOWERING ' WAS ABOUT AIRPLANE S'	ГНЕ 10	

File No. - 911 7/08/89 HOLLY HILL.SC A/C Reg. No. N4594T Time (Lcl) - 1115 EDT Occurrence #1 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - GUSTS PROPER DESCENT RATE - MISJUDGED - PILOT IN COMMAND 3. FLARE - IMPROPER - PILOT IN COMMAND 4. STALL - UNCONTROLLED - PILOT IN COMMAND NOSE GEAR COLLAPSED Occurrence #2 Phase of Operation LANDING - FLARE/TOUCHDOWN NOSE OVER Occurrence #3 Phase of Operation LANDING - ROLL

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT MISJUDGED HIS LANDING APPROACH PATH AND CROSSED THE RUNWAY THRESHOLD TOO HIGH TO SAFELY COMPLETE THE LANDING. HE ALSO FLARED THE AIRPLANE AT TOO HIGH AN ALTITUDE RESULTING IN A STALL TO A HARD TOUCHDOWN ON THE NOSE WHEEL EXCEEDING THE STRUCTURAL CAPABILITY OF THE STRUT.

----Probable Cause----

File No 863 9/24/89 M	MT PLEASANT, SC	A/C Reg. No. N	735BN	T	ime (Lcl)	- 1630 ED	
Basic Information Type Operating Certificate-ON-DEMAN		ircraft Damage SUBSTANTIAL		Fatal	Inju Serious	ıries Minor	None
Type of Operation -AERIAL (Flight Conducted Under -14 CFR SACCIDENT OCCUPTED DURING -LANDING		ire NONE	Crew Pass	0	0	0	1 2
Aircraft Information Make/Model - CESSNA 182Q Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2950 No. of Seats - 4	Eng Make/Mode Number Engine Engine Type Rated Power	l - CONTINENTAL s - 1 - RECIPROCATI - 230 HP		R	tall Warni	Activated ing System	- YES
Weather Data Wx Briefing - COMPANY Method - TELETYPE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- O15 KTS Visibility - 3.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 1500 FT Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - DAYLIGHT	Itinerary Last Departure COLUMBIA,SC Destination COLUMBIA,SC ATC/Airspace Type of Flight OVERCAST Type Apch/Lndg	Plan - COMPANY nce - VFR	Ai .(VFR) T-IN	irport ON AIR rport D EAST C Runway Runway Runway	Proximity PORT ata	- 17 - 3700/	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 27 Biennial Flight Revi		Certificate Flight			NO WAIVERS	LIMIT
COMMERCIAL, CFI		CW	1 - 11			24 Hrs -	11
SE LAND, ME LAND	Current - Months Since - Aircraft Type -	4 Make PA-44 Inst	/Model-	13 18		30 Days- 90 Days-	72 242
Instrument Rating(s) - AIRPLAN	NE						
Narrative HE PURPOSE OF THE FLT WAS TO SURVEY THE REA, THE WX BEGAN TO DETERIORATE & THE F AILWIND, THE ACFT FLOATED OVER HALFWAY O WET) RWY. AFTER DEPARTING THE RWY, THE F HE WINDSOCK DUE TO ITS LOCATION & SHREDO OT AVAILABLE DUE TO THE LACK OF ELECTRIC AIN & FOG, WIND 15 TO 20 KTS. APRX 13 MI IND FROM O50 DEG AT 12 KTS.	PLT ELECTED TO LAND AT EAS DOWN THE RWY BEFORE TOUCHI ACFT ENCOUNTERED MUDDY TER DED/DIRTY CONDITION (FROM CAL POWER AT THE ARPT. THE	T COOPER ARPT. NG DOWN. HE WAS RAIN & NOSED OV HURRICANE DAMAG PLT ESTD THE W	HE RPRTD THA UNABLE TO S ER. THE PLT E). ALSO, HE X WAS: 1500'	T WHILE TOP ON RPRTD H NOTED OVC, V	LANDING WITHE REMAIN THE DID NOT THAT UNICO	VITH A NING SEE DM WAS ITH LIGHT	

A/C Reg. No. N735BN 9/24/89 MT PLEASANT, SC

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation MANEUVERING

Finding(s)

1. WEATHER CONDITION - CLOUDS

- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. WEATHER CONDITION RAIN
- 5. FLIGHT TO ALTERNATE DESTINATION

Occurrence #2 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

- 6. AIRPORT FACILITIES NOT OPERATING
- 7. WRONG RUNWAY SELECTED -
- 8. WEATHER CONDITION TAILWIND
- 9. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 10. PROPER TOUCHDOWN POINT NOT ATTAINED PILOT IN COMMAND
- 11. GO-AROUND NOT PERFORMED PILOT IN COMMAND
- 12. AIRPORT FACILITIES RUNWAY/LANDING AREA CONDITION WET
- 13. AIRCRAFT PERFORMANCE, HYDROPLANING CONDITION -

Occurrence #3 NOSE OVER Phase of Operation LANDING

Finding(s)

14. TERRAIN CONDITION - SOFT

15. TERRAIN CONDITION - WET

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO SLOW THE AIRCRAFT TO THE PROPER LANDING SPEED AT THE PROPER TOUCHDOWN POINT OR GO AROUND. THE WEATHER CONDITIONS. TAILWIND, LACK OF AIRPORT FACILITIES (UNICOM NOT OPERATING AND WINDSOCK DAMAGED), WET RUNWAY/HYDROPLANING CONDITIONS, AND MUDDY TERRAIN BEYOND THE END OF THE RUNWAY WERE CONSIDERED TO BE CONTRIBUTING FACTORS:

File No 946 2/12/89 JASPE	R,TN	A/C Reg. No. N	1588FL	Т	ime (Lcl)	- 1540	CST
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL		ircraft Damage DESTROYED ire	Crew	Fatal 1		uries Mino	
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		NONE	Pass	1	0	0	-
Aircraft Information Make/Model - PIPER PA-28-140 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4	Eng Make/Mode Number Engine Engine Type Rated Power	1 - LYCOMING O- s - 1 - RECIPROCATI - 150 HP		TOR	Installed Stall Warr	ning Syst	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 060/004 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 25000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure JASPER,TN Destination LOCAL ATC/Airspace OVC Type of Flight Type of Cleara Type Apch/Lndg	Plan - NONE nce - NONE		Airport OFF AI Airport D Runway Runway Runway	Proximity RPORT/STR	- N/A - N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certif ⁻ icate(s)/Rating(s) PRIVATE SE LAND	Age - 51 Biennial Flight Revi Current - Months Since - Aircraft Type -	ew YES Tota 18 Make C-152 Inst	Certificate Flight al - e/Model- trument- ti-Eng -	e - VALIC t Time (H 100 O O	lours) Last Last	WAIVERS/ 24 Hrs - 30 Days- 90 Days-	O UNK/NR
Instrument Rating(s) - NONE							
THE AIRPLANE COLLIDED WITH A TREE DURING LOW THAT THE AIRPLANE INITIALLY MADE 1 OR 2 DESCEI 100 FT AGL, WHICH LED TO AN INCREASED DESCENT ON THE SOUTH END OF A NORTH-SOUTH ORIENTED ROI IMPACT WAS BETWEEN 45 & 60 DEGREES. EXAM OF TOR FAILURE. A NEPHEW OF THE PLT REPORTED THAT PRIOR OCCASIONS WHICH CULMUNATED IN PULL-UPS OF REVEALED NO EVIDENCE OF ANY CONDITION WHICH M.	NDING LEFT TURNS. THE RATE. THE AIRPLANE S W OF TREES, WHILE ON HE WRECKAGE REVEALED THE PLT HAD PERFORME NEAR GROUND LEVEL. PC	BANK ANGLE INC UBSEQUENTLY COL A NORTHERLY HDG NO EVIDENCE OF D LOW ALTITUDE IST- MORTEM EXAM	CREASED SIGN LLIDED WITH G. THE BANK PRE-EXISTIN TURN MANEU M OF THE PL	NIFICANTL A 30 FT ANGLE AT NG MECHAN VERS OVER	Y AT LESS HIGH TREE THE TIME NICAL MALF RHOUSE ON	THAN LOCATED OF UNCTION	

File No. - 946 2/12/89 JASPER,TN A/C Reg. No. N588FL Time (Lc1) - 1540 CST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation MANEUVERING

Finding(s)

- 1. LOW PASS ATTEMPTED PILOT IN COMMAND
- 2. FLIGHT CONTROLS IMPROPER USE OF PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. PROPER DESCENT RATE EXCEEDED PILOT IN COMMAND
- 5. PULL-UP NOT POSSIBLE -
- 6. OBJECT TREE(S)

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER HANDLING OF THE AIRPLANE FLIGHT CONTROLS AT LOW ALTITUDE WHICH RESULTED IN AN EXCESSIVE RATE OF DESCENT AND COLLISION WITH A TREE.

File No 971 5/06/89 MT. PLE	ASANT,TN A/C Reg	. No. N95PB	Т	ime (Lcl) -	0200 CDT	
Basic Information Type Operating Certificate-ON-DEMAND AIR	· ·			Injur		
T	DESTROYE		Fata1			None
Type of Operation -INSTRUCTIONAL	Fire	Cre		1	0	0
Flight Conducted Under -14 CFR 91	NONE	Pas	s O	0	0	0
Accident Occurred During -DESCENT						
Aircraft Information						
Make/Model - EMBRAER EMB-110-P1	Eng Make/Model - P&W	PT6A-34	ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 2			itall Warnir		
Max Gross Wt - 12500	Engine Type - TURB				.g cyclo	
No. of Seats - 2	Rated Power - 7					
Environment/Operations Information Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - FSS	Last Departure Point		•	RPORT/STRIP	,	
Method - TELEPHONE	MEMPHIS, TN		OII AI	Kruki/ Sikir		
Completeness - UNK/NR	Destination		Airport D	10+0		
Basic Weather - IMC	SAME AS ACC/INC			COUNTY		
Wind Dir/Speed- 200/004 KTS	SAME AS ACC/INC				23	
Visibility - 1.000 SM	ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds - 9000 FT SCATTE		TED		Surface -	•	/ 3
Lowest Sky/Crodds - 9000 FT SCATTE					N/A	
Obstructions to Vision- FOG	Type of Clearance - Type Apch/Lndg -	CDE TLK	Kuriway	status -	IN/ A	
	Type Apcti/Liting	201				
Precipitation - NONE Condition of Light - NIGHT(DARK)						
Personnel Information					,	
	ge - 43 M				IVERS/LIM	IIT
	iennial Flight Review	Fli	ght Time (F	lours)		_
COMMERCIAL, ATP, CFI	Current - YES Months Since - O	Total -	11020	Last 24	Hrs -	3
SE LAND, ME LAND	Months Since - 0	Make/Model-	250	Last 30	Days-	28
	Aircraft Type - C-402B	Instrument-	1679	Last 90	Days-	143
Tracker and Dating(a) AIDDIANG						
Instrument Rating(s) - AIRPLANE						
TER CONDUCTING GROUND TRAINING ALL DAY, THE 1	NSTRUCTOR/DIRECTOR OF OPERA	TIONS AND HIS T	RAINEE FLEW	AN EMB-110)-P1	
MEMPHIS TO EXCHANGE AIRPLANES. GROUND FOG HA						
HEY MADE THE RETURN FLIGHT TO COLUMBIA. THEY O					•	
COLUMBIA. THE THICK FOG RESULTED IN A MISSE					MOM	
BOVE AND THE CREW INDICATED THAT THEY WOULD TR						
350 FEET FROM THE RUNWAY IN A WINGS LEVEL ATT						
JNWAY THRESHOLD ALTITUDE. THE TRAINEE HAD BEEN						
THAT THE SHOED ACTIONS. THE TRAINER HAD BEET	. #11.1001 REST TOR AT LEAST	OC HOURS INTOR	. O THE ACCI	DEI41.		

File No. - 971 5/06/89 MT. PLEASANT, TN A/C Reg. No. N95PB Time (Lc1) - 0200 CDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. OBJECT - TREE(S) FATIGUE - DUAL STUDENT 3. WEATHER CONDITION - FOG 4. WEATHER EVALUATION - MISJUDGED -5. LIGHT CONDITION - DARK NIGHT 6. ALTITUDE - INADEQUATE - DUAL STUDENT 7. REMEDIAL ACTION - DELAYED - PILOT IN COMMAND(CFI) 8. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND(CFI). Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT ATTEMPTED TO MAKE A VFR LANDING IN INSTRUMENT CONDITIONS THAT WERE BELOW MINIMUMS FOR THE PUBLISHED INSTRUMENT APPROACH AND COLLIDED WITH TREES AND THE GROUND AFTER ALLOWING THE AIRPLANE TO DESCEND BELOW THE PROPER ALTITUDE.

File No 935 6/17/89 KI	NOXVILLE,TN	A/C Reg. No.	N714SR	Т	ime (Lc1)	- 1713 ED	Т
Basic Information Type Operating Certificate-NONE (GEI Type of Operation -INSTRUCT: Flight Conducted Under -14 CFR 9 Accident Occurred During -TAKEOFF	IONAL	Aircraft Damag SUBSTANTIAL Fire NONE	ge Crew Pass		Inj Serious O O	uries Minor 1 O	None O O
Aircraft Information Make/Model - CESSNA 150M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2			TING-CARBUR	ETOR	Stall Warn	/Activated ling System	
Environment/Operations Information	Itinerary	ACC/INC ight Plan - NONE earance - VFR		ON AIR Airport D DOWNTO Runway Runway Runway	Data DWN ISLAND / Ident / Lth/Wid		75 .
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) STUDENT	Age - 41 Biennial Flight Current Months Since Aircraft Typ	Review - N/A To e - N/A Ma	otal - uke/Model-	ht Time (F 55 20	lours) Last	24 Hrs - U 30 Days-	
Instrument Rating(s) - NONENarrative THE STUDENT WAS MAKING A PRACTICE SOLO FL. WEEK. AFTER AN ENGINE RUNUP WHICH RESULTEI ON RUNWAY 26. SHE HAD USED UP ABOUT HALF (THE READING DID NOT GET ABOVE 40 MPH DURII ABORT THE TAKEOFF. THE AIRPLANE VEERED LEI SURFACE AND INTO THE RIVER/LAKE SURROUNDII BRAKES BEGAN 215 FEET FROM THE END OF THE FOR THE NUMBER FOUR CYLINDER WAS FOUND STO PAST DUE OF IT'S 100 HOUR INSPECTION.	O IN AN EXCESSIVE MAG DF THE 3,500 FT RWY E NG THE TAKEOFF RUN. FT OFF THE RUNWAY, 18 NG THE AIRPORT. THE S RUNWAY. THE THROTTLE	G DROP ON THE FIRS BEFORE THE AIRSPEE THE ENGINE STARTE BS FEET FROM THE E SKID MARKS FROM THE WAS FOUND IN THE	ST ATTEMPT, ED INDICATOR ED RUNNING RE END. IT CONT HE APPLICATION ECCOUNTY	SHE ATTEME FURNISHED OUGH AND S INUED OVER ON OF THE ITION. THE	PTED A TAK D A READIN SHE DECIDE R THE GRAS MAIN WHEE E EXHAUST	EOFF IG. D TO S L VALVE	

File No. - 935 6/17/89 KNOXVILLE.TN A/C Reg. No. N714SR Time (Lc1) - 1713 EDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. ENGINE ASSEMBLY, VALVE, EXHAUST - OPEN 2. MAINTENANCE, 100 HOUR INSPECTION - DELAYED - COMPANY MAINTENANCE PSNL 3. AIRCRAFT PREFLIGHT - NOT UNDERSTOOD - PILOT IN COMMAND 4. OPERATION WITH KNOWN DEFICIENCIES IN EQUIPMENT - INTENTIONAL - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN Finding(s) 5. TERRAIN CONDITION - WATER 6. ABORTED TAKEOFF - DELAYED - PILOT IN COMMAND ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO RECOGNIZE THAT THE ENGINE WAS NOT DEVELOPING FULL POWER AND THE DELAY IN PERFORMING REMEDIAL
ACTION UNTIL IT WAS TOO LATE TO STOP THE AIRPLANE ON THE RUNWAY.

File No 997 1/18/89 LAR	EDO, TX	/C Reg. No.)	(BDYP	Time (Lcl) -	- 2043 CS1	Г
Basic Information Type Operating Certificate-NONE (GENE		craft Damage	Fatal	Injur Serious	ries Minor	None
Type of Operation -OTHER WORK	USE Fir	e	Crew O	2	0	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	00	GROUND	Pass 0	0	0	0
Aircraft Information						
Make/Model - DOUGLAS DC-3 Landing Gear - TAILWHEEL-RETRACTABLE Max Gross Wt - 26900 No. of Seats - 2	Engine Type	- 2		T Installed/A Stall Warnir		
Environment/Operations Information						
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - VMC	Itinerary Last Departure P LARDEO,TX Destination TORREON.MX	oint	ON A	t Proximity IRPORT Data DO INT'L		
Wind Dir/Speed- CALM Visibility - 7.0 SM Lowest Sky/Clouds - 2000 FT	ATC/Airspace Type of Flight P ERCAST Type of Clearand Type Apch/Lndg		Runw Runw Runw	ay Ident - ay Lth/Wid - ay Surface -		
Personnel Information						
Pilot-In-Command	Age - 40		Certificate - VAL) WAIVERS/	'LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		Flight Time	(Hours)		
COMMERCIAL, ATP, FLT ENG		•	- 8000		Hrs - UN	
SE LAND, ME LAND	Months Since - 2		/Mode1- 3800	Last 30 Last 90	Days- UN	IK/NR
	Aircraft Type - DC		rument- UNK/NR i-Eng - 6000) Days- UN raft - UN	
Instrument Rating(s) - AIRPLANE						
NAPPATIVE IE PILOT STATED THAT DURING TAKEOFF FROM R OPELLER AND RIGHT ENGINE POWER AT AN ALTI ILLE APPLYING FORWARD PRESSURE ON THE CONT JACENT TO THE DEPARTURE RUNWAY. HE FURTHE IRING TAKEOFF.	TUDE OF LESS THAN 100 FEE ROL YOKE, BUT LOST CONTRO	T AGL. HE ATTE L OF THE AIRCE	EMPTED TO RESTORE RAFT AND IMPACTED	TAKEOFF POWE THE TERRAIN		

1/18/89 LAREDO, TX File No. - 997 A/C Req. No. XBDYP Time (Lc1) - 2043 CST Occurrence #1 CARGO SHIFT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. SECURITY OF CARGO ~ DISREGARDED - PILOT IN COMMAND 2. PROCEDURE INADEQUATE - PILOT IN COMMAND 3. AIRCRAFT WEIGHT AND BALANCE - EXCEEDED -Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 4. THROTTLE/POWER CONTROL - REDUCED - COPILOT/SECOND PILOT 5. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - COPILOT/SECOND PILOT 6. PROPELLER - REDUCED - COPILOT/SECOND PILOT 7. AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND 8. STALL/MUSH - INADVERTENT - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 9. TERRAIN CONDITION - GRASS ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PIC'S DISREGARD FOR THE SECURITY OF THE CARGO THAT PERMITTED ITS SHIFT DURING THE TAKOEFF ROLL. THIS RESULTED IN AN AFT CG SITUATION AND A SUBSEQUENT STALL AND LOSS OF AIRCRAFT CONTROL. A CONTRIBUTING FACTOR IN THE ACCIDENT WAS THE MISMANAGEMENT OF THE ENGINE POWER BY THE CREW AND THE LACK OF EXPERIENCE OF THE CO-PILOT.

File No 945 1/31/89 NOCO	NA,TX A/C Re	g. No. N59KM	T	ime (Lc1) -	1510 CST	
Basic Information Type Operating Certificate-NONE (GENER,				Injur		
	SUBSTAN	TIAL	Fatal		Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	2
Aircraft Information						
Make/Model - CESSNA 180B	Eng Make/Model - CON	TINENTAL O-480-K		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warnin	g System	- YES
Max Gross Wt - 2650	Engine Type - REC	IPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	230 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN	G Last Departure Point		ON AIR	PORT		
Method - N/A	DALLAS,TX					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		NOCONA			
Wind Dir/Speed- 230					14	
Visibility - UNK/NR	ATC/Airspace			Lth/Wid -		50
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -			Surface -		
Lowest Ceiling - NONE	Type of Clearance -		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
Personnel Information						·
Pilot-In-Command		Medical Certifica			WAIVERS/	LIMII
Certificate(s)/Rating(s)	Biennial Flight Review	F 1 1 2	ht Time (F			
ATP	Current - YES Months Since - 2	Total -		Last 24		1
SE LAND, ME LAND	Months Since - 2	Make/Model-		Last 30 Last 90		45
	Aircraft Type - B-737	Instrument-	1250	Last 90	Days-	100
Instrument Rating(s) - AIRPLANE						
Narrative	A ELICUT TO AN ATODODE WITH N	O WEATHER THEODS	TION OTHER	THAN THE		
THE AIRLINE TRANSPORT RATED PILOT CONDUCTED . ATIS AT HIS DEPARTURE POINT. HE ESTIMATED TH						
TO HIS LANDING RUNWAY. DURING LANDING ROLLOU						
O HIS LANDING RONWAY. DORING LANDING ROLLOO OST AND IT DEPARTED THE RUNWAY SURFACE. THE					HE	
AIRCRAFT TO CONTINUE RATHER THAN GROUND LOOP					112	
FROM THE FUSELAGE.	. THE ELL I MAIN GEAR STRUCK A	12 INCH SILEL CO	LVLKI AND	JET ARATED		
NOW THE TOSELAGE.						

File No. - 945 1/31/89 A/C Reg. No. N59KM Time (Lc1) - 1510 CST NOCONA.TX ______ Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. WEATHER CONDITION - GUSTS 2. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 3. PERFORMANCE DATA - DISREGARDED - PILOT IN COMMAND 4. DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) TERRAIN CONDITION - HIDDEN OBSTRUCTION(S) 6. OBJECT - OTHER

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DISREGARD OF THE AIRCRAFT PERFORMANCE DATA/OPERATIONAL LIMITATIONS BY LANDING IN EXCESS OF THE CROSSWIND CAPABILITY OF THE AIRCRAFT, AND THE RESULTANT LOSS OF DIRECTIONAL CONTROL DURING THE LANDING ROLL.

----Probable Cause----

File No 947 2/13/89 TYLEF	R,TX A/C Reg. No	D. N7025L Time (Lc1) - 2217 CST
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -U. S. JET Type of Operation -NON SCHED.DO Flight Conducted Under -14 CFR 135 Accident Occurred During -DESCENT	DESTROYED	ige Injuries Fatal Serious Minor None Crew 3 0 0 0 Pass 0 0 0
Aircraft Information Make/Model - MBB BK-117 A-1 Landing Gear - SKID Max Gross Wt - 7040 No. of Seats - 3	Eng Make/Model - LYCOMING Number Engines - 2 Engine Type - TURBOSHA Rated Power - 650 F	Stall Warning System - NO NFT
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - IMC Wind Dir/Speed- 330/012 KTS Visibility - 1.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1200 FT OVER Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point SAME AS ACC/INC Destination PITTSBURG,TX ATC/Airspace Type of Flight Plan - NONE RCAST Type of Clearance - NONE Type Apch/Lndg - NONE	Runway Status - N/A
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP HELICOPTER Instrument Rating(s) - HELICOPTER	Biennial Flight Review Current - YES T Months Since - 2 M Aircraft Type - BK-117	otal - 7554 Last 24 Hrs - 1 Make/Model - 29 Last 30 Days - 2
Narrative HE ACFT CRASHED AFTER CONTACTING 70' TALL H: CCORDING TO WITNESSES, WX WAS IMC WITH LOW (HROUGHOUT THE AREA. WITNESSES STATED THE RA: FSS AND WAS FULLY AWARE OF THE CONDITIONS. H X WAS QUESTIONABLE OR UNACCEPTABLE. THE HOSK LT DID NOT FOLLOW. RECORDS FAIL TO INDICATE HE PILOT HAD RECEIVED ANY IFR TRAINING DURIN	OVC CEILINGS, 1/4 TO 1 MILE VIS WIEN VARIED FROM DRIZZLE TO VERY HEASTED THE HAD THE AUTHORITY TO REFUSE THE PITAL HAD WRITTEN PROCEDURES FOR INTERNATION THE PILOT HAD REVIEWED THESE	TH RAIN AND FOG AND THUNDERSTORMS AVY. THE PILOT RECEIVED 3 BRIEFINGS FROM E MISSION IF, IN HIS JUDGEMENT, THE ENADVERTENT FLIGHT INTO IMC WHICH THE

File No 9	47 2/13/89	TYLER,TX	A/C Reg.	No. N7025L	Time (Lc1) - 2217 CST
Occurrence #1 Phase of Operation	IN FLIGHT ENCOUN CRUISE	TER WITH WEATHER			
8. INADEQUATE	ON - RAIN ON - TURBULENCE - DARK NIGHT WN ADVERSE WEATHER OURE - NOT PERFORM INITIAL TRAINING - TRAINING(EMERGENCY	ED - PILOT IN COMM COMPANY/OPERATOR PROCEDURE(S)) - C	AND MANAGEMENT OMPANY/OPERATOR MAN	AGEMENT	
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS				
Finding(s) 9. OBJECT - WIRE,TI 10. CLEARANCE - N	OT MAINTAINED - PI	LOT IN COMMAND			
Occurrence #3 Phase of Operation			. ·		· · · · · · · · · · · · · · · · · · ·
Occurrence #4 Phase of Operation	IN FLIGHT COLLIS	ION WITH TERRAIN/W. ROLLED	ATER		
Probable Cause					
The National Transpo THE PILOT'S FAILURE					ident was: D ADVERSE WEATHER CONDITIONS.

Type Operating Certificate-NONE (GENER		C+ D		T *		
	DESTRI	ft Damage	Fatal	Injur Serious	nes Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	0
Flight Conducted Under -14 CFR 91	NONE			Ö	Ö	Ö
Accident Occurred During -MANEUVERING	3					_
Aircraft Information						
Make/Model - CESSNA 172XP	Eng Make/Model - Co			Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -		:	Stall Warnin	g System	- YES
Max Gross Wt - 2550	Engine Type - R					
No. of Seats - 4	Rated Power -	195 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFIN	•	t	OFF A	TRPORT/STRIP		
Method - N/A	CASTROVILLE, TX					
Completeness - N/A Basic Weather - IMC	Destination CARRIZO SPRINGS,T	~	Airport 1	Data		
Wind Dir/Speed- 230/015 KTS	CARRIZO SPRINGS, I	^	Pupwa	/ Ident -	N/A	
Visibility - 7.0 SM	ATC/Airspace			/ Lth/Wid -		
Lowest Sky/Clouds - N/A	Type of Flight Plan	- NONE		/ Surface -		
Lowest Ceiling - 1500 FT OVE				/ Status -		
Obstructions to Vision- NONE		- NONE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 014146	,	
Precipitation - RAIN	,, , , , ,					
Condition of Light - NIGHT(DARK)						
Personnel Information						
Pilot-In-Command	Age - 48	Medical Certifica	te - VALII	MEDICAL-NO	WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (I	Hours)		
PRIVATE	Current - YES			Last 24		IK/NR
SE LAND	Months Since - 16 Aircraft Type - C-150	Make/Model-	247	Last 30	Days-	8
	Aircraft Type - C-150	Instrument-	6	Last 90	Days-	31
Instrument Rating(s) - NONE						
Narrative						
PILOT ELECTED TO TAKEOFF AFTER BEING TOL						
CIATED THUNDERSTORMS. HE ALSO WAS INFORM					ITAL	
AGE HAD OCCURRED. THE AIRCRAFT COLLIDED ECHANICAL MALFUNCTIONS WERE FOUND DURING	WITH TREES, DURING A THUNDER	RSTORM WITH HEAVY R	AIN AND L	IGHTNING.		

File No. - 964 3/28/89 HONDO,TX A/C Reg. No. N736RT Time (Lc1) - 0308 CST

Occurrence #1
Phase of Operation

IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. FLIGHT INTO KNOWN ADVERSE WEATHER INTENTIONAL PILOT IN COMMAND
- 2. SPATIAL DISORIENTATION PILOT IN COMMAND
- 3. WEATHER EVALUATION POOR PILOT IN COMMAND
- 4. LACK OF TOTAL INSTRUMENT TIME PILOT IN COMMAND
- 5. WEATHER CONDITION THUNDERSTORM
- 6. LIGHT CONDITION DARK NIGHT

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation MANEUVERING

Finding(s)

- 7. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 8. PROCEDURES/DIRECTIVES NOT FOLLOWED PILOT IN COMMAND
- 9. OBJECT WIRE, TRANSMISSION
- 10. INSTRUCTIONS, WRITTEN/VERBAL NOT FOLLOWED PILOT IN COMMAND
- 11. OVER CONFIDENCE IN PERSONAL ABILITY PILOT IN COMMAND
- 12. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S DECISION TO DEPART INTO KNOWN ADVERSE WEATHER AND HIS LACK OF INSTRUMENT TRAINING AND EXPERIENCE.

Basic Information Type Operating Certificate-AGRICULTURAL AIRCR Type of Operation -AERIAL APPLICATION Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING	SUBSTANTIAL	Crew	Fatal V O	Injur Serious O	ies Minor O	None 1
		Pass		0	Ö	0
Aircraft Information Make/Model - AIR TRACTOR AT-502 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 8000 No. of Seats - 1	Eng Make/Model - P&W PT6 Number Engines - 1 Engine Type - TURBOPR Rated Power - 783	6A-34AG ROP	ELT I	nstalled/A all Warnin	ctivated	
Wx Briefing - NWS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 180/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR SCATTERED Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - NON Type of Clearance - NON Type Apch/Lndg - STR		Runway Runway Runway	TRIP ta Ident - Lth/Wid - Surface -	UNK/NR UNK/NR DIRT DRY	
COMMERCIAL C SE LAND	nial Flight Review Current - YES Months Since - 15 Aircraft Type - UNK/NR	ical Certifica	ate - VALID ght Time (Ho 11000 800 JNK/NR		Hrs - Days- Days-	5 250 804 0

File No 835 4/19/89 GANADO,TX	A/C Reg. No. N7320C	Time (Lc1) - 1430 CDT
Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL		
Finding(s) 1. DIRECTIONAL CONTROL - NOT MAINTAINED - 2. GROUND LOOP/SWERVE - UNCONTROLLED -		
Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation LANDING		
Finding(s) 3. LANDING GEAR,MAIN GEAR ATTACHMENT - OVERLOAD		
Probable Cause		
The National Transportation Safety Board determines that the LOSS OF DIRECTIONAL CONTROL FOR AN UNKNOWN REASON.		

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File No 834 5/06/89 EDCO	UCH,TX A/C Re	eg. No. N4591	Т	ime (Lcl) -	1310 CD	Г
Type of OperationParsonal Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AIRCRAFT Aircraf SUBSTAI Fire NONE			Injur Serious O O		None 1 O
Aircraft Information Make/Model - GRUMMAN-SCHWEIZER G-16 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 6075 No. of Seats - 1	Number Engines - 1 Engine Type - REG		S	Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 080/010 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR SCA Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary G Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace TTERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	OFF AI Airport D Runway Runway Runway Runway	Ident - Lth/Wid - Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND	Age - 44 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - UNK/NR	Total - Make/Model-	nt Time (H 10000 1000 .220	ours) Last 24 Last 30	Hrs - U	NK/NR NK/NR
Instrument Rating(s) - NONENarrative THE PLT WAS ON A LOCAL FLT TO CHECK THE AG A SUDDENLY LOST ALL POWER. THE PLT MADE 2 REST WAS SUBSEQUENTLY MADE IN A CORN FIELD WHERE IT RAN SUCCESSFULLY WITH NO MECHANICAL ANOMA	ARTS, BUT THE ENG LOST POWER THE ACFT NOSED OVER & WAS DAI	AGAIN AFTER EACH I MAGED. AFTER THE AG	RESTART. A	FORCED LAN	DING	k

File No 8	34 5/06/89 EDCOUCH,TX	A/C Reg. No. N4591	Time (Lcl) - 1310 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER CRUISE		
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation	NOSE OVER LANDING - FLARE/TOUCHDOWN		
Finding(s) 2. TERRAIN CONDITI	DN - CROP		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF ENGINE POWER FOR AN UNDETERMINED REASON. THE CORN CROP WAS A CONTRIBUTING FACTOR.

File No 832 7/18/89 AN	AHUAC,TX	A/C Reg. No. N	6633Q	Τí	ime (Lcl) -	1750 CDT	
Basic Information Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft Damage			Injur	ies	
.,,		DESTROYED		Fatal			None
Type of Operation -AERIAL AP	PLICATION	Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91		ON GROUND	Pass	0	0	0	0
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - GRUMMAN-SCHWEIZER G-		Model - P&W R-985-A	N-14B		[nstalled/A		
Landing Gear - TAILWHEEL-ALL FIXED		ngines - 1	NO CARRUPET		tall Warning	g System -	- NO
Max Gross Wt - 6075 No. of Seats - 1		/pe - RECIPROCATI /er - 450 HP	NG-CARBURE I	JK			
No. 01 Seats - 1	Rated POW	/er - 450 HP					
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEF	Itinerary ING Last Depar	stung Doint	•		Proximity RPORT/STRIP		
Method - N/A	SAME AS			OFF AIR	KPURI/SIRIP		
Completeness - N/A	Destination		Δ	irport Da	ata		
Basic Weather - VMC	LOCAL	•	~		RS COUNTY		
Wind Dir/Speed- 190/005 KTS						17	
	ATC/Airspace			Runway	Lth/Wid -	2300/ 3	300
Lowest Sky/Clouds - UNK/NR S					Surface -		RF
Lowest Ceiling - NONE	Type of C1	earance - NONE		Runway	Status -		
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/	'Lndg - NONE				ROUGH	
Condition of Light - DAYLIGHT							
~							
Personnel Information Pilot-In-Command	Age - 27	Medical Review	Certificate	- VALID	MEDICAL-NO	WAIVERS/L	IMIT
Certificate(s)/Rating(s)	Biennial Flight	Review	Flight	Time (Ho	ours)		
PRIVATE	Current	- YES Tota] -	178	Last 24	Hrs -	2
SE LAND	Months Since	e - 13 Make oe - C-152 Inst	/Model-	29	Last 30	Days-	11
	Aircraft Typ	pe - C-152 Inst	rument-	4	Last 90	Days-	32
Instrument Rating(s) - NONE							
This trument kating(s) - None							
Narrative							
NG TAKEOFF, THERE WAS A PARTIAL LOSS O							
CLEAR AN EMBANKMENT BEYOND THE END OF T	HE RUNWAY. AFTER HIT	TING THE EMBANKMENT	, THE AIRCRA	AFT NOSE	OVER & BE	GAN	
ING. AN INVESTIGATION REVEALED THE POW			i				

File No 8	32 7/18/89	ANAHUAC, TX	A/C Reg. No. N6633Q	Time (Lcl) - 1750 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE P TAKEOFF - INITIA		H FAILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY 2. ENGINE ASSEMBLY				
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS TAKEOFF	ION WITH TERRAIN/WA	TER	
Finding(s) 3. LOAD JETTISON - 4. TERRAIN CONDITI 5. CLIMB - NOT P	ON - DIRT BANK			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE SUPERCHARGER BEARING. THE DIRT BANK WAS A CONTRIBUTING FACTOR.

----Probable Cause----

Damage Injuries IAL Fatal Serious Minor None Crew O O O 1 Pass O O O O R-1340 ELT Installed/Activated - NO -N/ Stall Warning System - YES PROCATING-CARBURETOR OO HP Airport Proximity OFF AIRPORT/STRIP Airport Data Runway Ident - N/A
Stall Warning System - YES PROCATING-CARBURETOR OO HP Airport Proximity OFF AIRPORT/STRIP Airport Data
OFF AIRPORT/STRIP Airport Data
Runway Lth/Wid - N/A NONE Runway Surface - N/A NONE Runway Status - N/A FULL STOP
ledical Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) Total - 34500 Last 24 Hrs - 8 Make/Model- 3000 Last 30 Days- 200 Instrument- 800 Last 90 Days- 700 Multi-Eng - 1000 Rotorcraft - 0
F

File No 8	43 8/02/89 	AUSTWELL,TX	A/C Reg. No. N7501Q	Time (Lcl) - 1415 CDT
Occurrence #1 Phase of Operation	ON GROUND COLLIS LANDING - ROLL	ION WITH TERRAIN/WATE	R	
Finding(s) 1. TERRAIN CONDITI 2. UNSUITABLE TE	ON - HIGH VEGETATI RRAIN - SELECTED -		· 	
Occurrence #2 Phase of Operation	LOSS OF CONTROL LANDING - ROLL	- ON GROUND		
	TROL - NOT POSSIBL RVE - UNCONTROLLED	-		
Occurrence #3 Phase of Operation				
Finding(s) 5. TERRAIN CONDITI				
Probable Cause				
The National Transpo	rtation Safety Boa	rd determines that the	e Probable Cause(s) of this accide	ent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
PILOT'S SELECTION OF AN UNSUITABLE LANDING AREA (TERRAIN). HIGH VEGETATION AND ROUGH TERRAIN WERE CONTRIBUTING FACTORS.

File No 944 2/09/89 SALT	LAKE CITY,UT	A/C Reg	. No. N935F	Т	ime (Lcl) -	- 0100 MST	
Basic Information Type Operating Certificate-AIR CARRIER Name of Carrier -EVERGREEN IN Type of Operation -SCHEDULED,DO Flight Conducted Under -14 CFR 121 Accident Occurred During -CLIMB	NTL AIRLINES	Aircraft [NONE Fire NONE	Damage Cre Pas		Injur Serious O O	ries Minor O O	None 1 O
Aircraft Information Make/Model - MCDONNELL DOUGLAS DC-9- Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 108000 No. of Seats - 2		•			Installed/A		
Environment/Operations Information Weather Data Wx Briefing - MILITARY Method - IN PERSON Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 120/008 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	SAN ANTO ATC/Airspace Type of Fl	NIO,TX ight Plan - : earance - :		OFF AI Airport D Runway Runway Runway Runway	Ident - Lth/Wid - Surface -	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Age - 38 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 4		ight Time (H 11000		Hrs -	CLIMIT 5 62 152 0
AS 1ST OFFICER (FO) WAS FLYING ACFT, DRG CLB ORDERED HIM TO CONT CLBG TO ASSIGNED FLT LVL BUT COMPLIED RATHER THAN CONFRONT CAPT. CAPT SUPPLY OF 02. WHEN CAPT DIDN'T RTRN, FO TRIED OF DSCNTS TO 13,000'. AFTER ABT 30 MIN, HE LEMASK ON HIS FACE. CAPT'S FOOT WAS ENTANGLED DECLARED EMERG & LNDD AT LUBBOCK. CAPT WAS RUHEAD WAS NOT INSTALLED. IT HAD BEEN REMOVED IN NO USE OF 02; IT WAS TESTED & FUNCTIONED NML	(FL 330), WHILE H LEFT COCKPIT WITH D SIGNALING HIM. EFT COCKPIT & FND IN CARGO NET WHICH JSHED TO HOSPITAL, FOR MAINT BFR FLT.	E (THE CAPT) PORTABLE "OI THO RELUCTAN' CAPT UNCONSC: CVRD A PALLI BUT WAS DEAU PORTABLE 02	WENT AFT TO FM N DEMAND" OXYGE T TO COUNTERMAN IOUS & UNRESPON ET. FO TRIED TO D ON ARRIVAL. E SYS WAS STILL	ND PRBLM. FO EN (O2) SYS, ND CAPT'S OR NSIVE IN FWD D REVIVE CAP EXAM REVEALE FULL, INDCG	DISLIKED TO WHICH HAD DER, FO MAD CARGO AREAT, TO NO AND AFT PRESS CAPT HAD L	THE ORDER, 15 MIN DE SERIES WITH O2 /AIL, THEN GURE BULK- LITTLE OR	ı

File No. - 944 2/09/89 SALT

SALT LAKE CITY, UT A/C Reg. No. N935F

Time (Lcl) - 0100 MST

Occurrence #1

MISCELLANEOUS/OTHER

Phase of Operation C

CLIMB

Finding(s)

- 1. DOOR, INSPECTION NOT INSTALLED
- 2. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE COMPANY MAINTENANCE PSNL
- 3. FUSELAGE, CABIN NO PRESSURE
- 4. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 5. CLIMB CONTINUED -
- 6. CREW/GROUP COORDINATION POOR PILOT IN COMMAND
- 7. OXYGEN SYSTEM IMPROPER USE OF PILOT IN COMMAND
- 8. INCAPACITATION(ANOXIA/HYPOXIA) PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE CAPTAIN (PILOT-IN-COMMAND) AND HIS IMPROPER USE OF THE PORTABLE OXYGEN SYSTEM, WHICH RESULTED IN HIS INCAPACITATION DUE TO HYPOXIA. FACTORS RELATED TO THE ACCIDENT WERE: INADEQUATE MAINTENANCE/INSPECTION OF THE AIRCRAFT BY COMPANY MAINTENANCE BY FAILING TO REINSTALL THE AFT PRESSURE BULKHEAD HATCH (INSPECTION DOOR) AND POOR CREW COORDINATION.

File No 812 5/16/89 ST GE	ORGE,UT A/0	Reg. No. N7525E	T	Time (Lcl) - 1330 MDT			
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING			-	Injuri Serious O O		None 1 1	
Aircraft Information Make/Model - CHAMPION 7EC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1450 No. of Seats - 2	Number Engines - Engine Type -	LYCOMING 0-235-C1 1 RECIPROCATING-CARBUR 115 HP	S	Installed/Ac tall Warning			
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/005 KTS Visibility - 75.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	an - NONE - NONE	ON AIR Airport D ST GEO Runway Runway Runway	ata RGE MUNI	ASPHALT	100	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,ME LAND	Age - 26 Biennial Flight Review Current - YES Months Since - 10 Aircraft Type - 7EC		ht Time (H 233 90 9		Hrs - Days- Days-	/LIMIT 2 11 87 O	
Instrument Rating(s) - NONENarrative HE PLT WAS PRACTICING TOUCH-&-GO LANDINGS ON PCH, HE ELECTED TO MAKE A FULL STOP LANDING. ORRECTIVE ACTION WAS NOT EFFECTIVE. SUBSEQUE ERRAIN & A DITCH, THEN NOSED OVER.	DRG THE LANDING ROLL, A	VIND ESTIMATED AT 5 G	SUSTING 15	O THE RIGHT;			

File No 8	12 5/16/89 	ST GEORGE,UT	A/C Reg. No. N7525E	Time (Lcl) - 1330 MDT
Occurrence #1 Phase of Operation		- ON GROUND		
Finding(s) 1. WEATHER CONDITI 2. WEATHER CONDITI 3. COMPENSATION FO	ON - GUSTS	- INADEQUATE - PILOT	IN COMMAND	
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WAT	ER	
Finding(s) 4. TERRAIN CONDITI 5. TERRAIN CONDITI	ON - DITCH			
Occurrence #3 Phase of Operation				
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR THE WIND CONDITIONS BY THE PILOT. THE GUSTY CROSSWIND, SOFT TERRAIN, AND DITCH WERE CONTRIBUTING FACTORS.

File No 878 6/04/89 MONT:	CELLO,UT A/C	Reg. No. N7545F	T	ime (Lcl) -	0939 MDT	
Basic Information Type Operating Certificate-NONE (GENERA		aft Damage [ANTIAL	Fatal	Injuri Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Cre	ew O	1 0	0	0
Aircraft Information Make/Model - CHAMPION 7GCBC Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1650 No. of Seats - 3	Number Engines - Engine Type - F	YCOMING 0-320-A2B 1 RECIPROCATING-CARBU 150 HP	S	Installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed CALM Visibility - 60.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poir SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg	n - NONE - NONE	OFF AI Airport D SAN JU Runway Runway Runway	Proximity RPORT/STRIP ata AN COUNTY Ident - Lth/Wid - Surface - Status -	4817/ ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 74 Biennial Flight Review Current - NO Months Since - 73 Aircraft Type - 7GCB0	Total -	ight Time (H 843 500 UNK/NR O	ours) Last 24 Last 30 Last 90 Rotorcra	Hrs - UN Days- Days- aft -	

Time (Lc1) - 0939 MDT File No. - 878 6/04/89 MONTICELLO, UT A/C Reg. No. N7545F LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Occurrence #1 TAKEOFF - INITIAL CLIMB Phase of Operation Finding(s) 1. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING Finding(s) 4. TERRAIN CONDITION - ROUGH/UNEVEN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT OF THE AIRCRAFT BY THE PILOT WHICH RESULTED IN FUEL EXHAUSTION DUE TO AN INADEQUATE SUPPLY OF FUEL. THE TERRAIN CONDITION WAS CONSIDERED TO BE A FACTOR.

----Probable Cause----

File No 985 3/03/89 ROANO	KE, VA	A/C Reg. I	No. N27FH	Т	ime (Lc1) -	· 1612 EST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -CRUISE	_ AVIATION)	Aircraft Da DESTROYED Fire ON GROUND	nage Crew Pass		Injur Serious O O	ries Minor O O	None O O
Aircraft Information Make/Model - BEECH V35TC Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3400 No. of Seats - 6	Number En	Model - CONTIN gines - 1 pe - RECIP- er - 285	TUEL INJECTED		Installed/Æ tall Warnir		
	Itinerary Last Depar MIDDLEBU Destination BLACKSBU ATC/Airspace BKN Type of F1 CAST Type Apch/	RG,VA ight Plan - NO earance - NO	NE	OFF AI Airport D Runway Runway Runway Runway		· N/A · N/A · N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 46 Biennial Flight Current Months Since Aircraft Typ	Review - YES - 2	ical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ht Time (H 1811 1241 276		Hrs - Days- Days-	.IMIT 1 2 26 0
Instrument Rating(s) - AIRPLANE							
Narrative HE INSTRUMENT RATED PLT INITIATED VFR FLIGHT HE PLT CONTACTED ROANOKE (ROA) APCH CTRL ABOU E WAS "STUCK" IN CLOUDS AT 2,000 FT MSL AT THE EVEL IN HEAVY FOG AND BELOW AN ESTIMATED 100 ,000 FT. AS HE WAS CLIMBING HE ASKED FOR THE LACKSBURG WAS NOT AVAILABLE. HOWEVER, THE PL HE ACFT WAS AT 4,600 FT WHEN IT ABRUPTLY MADE ESCENDED FROM A LOW OVERCAST IN A NOSE DOWN A	JT 15 MILES WEST HE SAME TIME WITN TO 200 FT OVERCA CURRENT WEATHER F ASKED AND WAS CE T A RIGHT TURN AN	OF BLACKSBURG A ESSES IN THE AL ST. THE PLT WAS AT BLACKSBURG. ELEARED TO PROC ID DESCENDED TO ENGINE AT HIG	AND 8 MILES SW REA REPORTED A S CLEARED TO A ROA ADVISED T EED TO BLACKSE THE GROUND. W H POWER. EXAMI	OF ROA. H N ACFT JUS ND BEGAN C HE PLT THA URG ON A 2 ITNESSES S NATION OF	E REPORTED T ABOVE TRE LIMBING WES T THE WEATH 40 DEGREE H TATED THE A THE ACFT DI	THAT EETOP ST TO HER AT HEADING.	

Time (Lc1) - 1612 EST File No. - 985 3/03/89 ROANOKE, VA A/C Reg. No. N27FH Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - LOW CEILING 2. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND 3. WEATHER CONDITION - FOG 4. VFR FLIGHT INTO IMC - INITIATED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE Finding(s) 5. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 6. SPATIAL DISORIENTATION - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTAIN CONTROL OF THE AIRCRAFT DUE TO SPATIAL DISORIENTATION.

----Probable Cause----

File No 895 6/05/89 SUFFOI	.K,VA	A/C Reg.	No. N91072	Т	ime (Lcl) -	1400 ED1	Г
Basic Information Type Operating Certificate-NONE (GENERAL	. AVIATION)	Aircraft Da	-	Fatal	Injur Serious	ies Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		Fire NONE	Crew Pass	_	0	0	2 0
Aircraft Information Make/Model - BEECH T-34B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2985 No. of Seats - 2	Eng Make/M Number Eng Engine Typ Rated Powe	e - RECIP-	FUEL INJECTED	S	Installed/A tall Warnir	g System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/008 KTS Visibility - 8.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3000 FT BROKE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT		ght Plan - NO earance - NO endg - TR		Airport ON AIR Airport D SUFFOL Runway Runway Runway	Proximity PORT ata K MUNI Ident Lth/Wid -	25 5000/	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP,CFI SE LAND,ME LAND	Age - 34 Biennial Flight R Current Months Since Aircraft Type	Review - YES - 3	ical Certifica Flig Total - Make/Model- Instrument- Multi-Eng -	ht Time (F 2800 50 260		Hrs - Days- Days-	2 35 100 0
Instrument Rating(s) - AIRPLANE							
THE CFI AND STUDENT WERE PERFORMING A SIMULATE OF AND STUDENT WERE PERFORMING A SIMULATE OF AND THAT FULL PWR WAS APPLIED WITH 75 PERCEPTION OF THE RWY. BACKLEASED AND THE ACFT SETTLE OF THE ACFT SETTLE OF AND THE ACFT SETTLE OF AND THE ACFT ENTERED WHAT THE PRESSURE AND THE ACFT ENTERED WHAT THE TERRAIN IN A LEFT WING LOW ATTITUDE AND SECONDERS OF AND THE INTERCESTANCE OF THE STALL WARNING WAS INOP AND THE INTERCESTANCE.	INT FLAPS AND FULL C PRESSURE WAS AGA D TOWARD THE RWY. T HE DESCRIBED AS CIDDED TO A STOP O	BACK STICK W. IN APPLIED ANI TO PREVENT TO A LEFT YAWING OFF THE LEFT S	AS USED. ONCE O THE ACFT BEC HE ACFT FROM C G TURN. SUBSEC IDE OF THE RWY	AIRBORNE, AME AIRBOR ONTACTING DUENTLY, TH	BACK PRESSU NE. ONCE AG THE RWY, TH E ACFT CONT	RE WAS SAIN, HE CFI FACTED	

6/05/89 A/C Reg. No. N91072 File No. - 895 SUFFOLK, VA Time (Lcl) - 1400 EDT Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF - INITIAL CLIMB Findina(s) 1. STALL WARNING SYSTEM - INOPERATIVE 2. COMM/NAV EQUIPMENT, INTERCOM - FAILURE, PARTIAL 3. LIFT-OFF - PREMATURE -4. AIRSPEED - NOT OBTAINED - DUAL STUDENT 5. STALL - INADVERTENT -6. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
AN INADVERTENT STALL DUE TO FAILURE OF THE STUDENT PILOT TO OBTAIN ADEQUATE FLYING SPEED AND INADEQUATE SUPERVISION BY
THE INSTRUCTOR PILOT (CFI). THE INOPERATIVE STALL WARNING SYSTEM WAS CONSIDERED TO BE A CONTRIBUTING FACTOR. THE
INTERMITTENT INTERCOMM PROBLEM WAS A POSSIBLE CONTRIBUTING FACTOR.

File No 915 6/12/89 MADISC	N HEIGHTS, VA A/C	Reg. No. N7605T	Т.	me (Lc1) -	1130 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	SUBS		Fatal O O	Injuri Serious O O		None 1 0
Aircraft Information Make/Model - CESSNA 172A Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4	Number Engines - Engine Type -	CONTINENTAL 0-300-C 1 RECIPROCATING-CARBURE 145 HP	Si	installed/Actall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 140/007 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 3500 FT SCATT Lowest Ceiling - 25000 FT OVERO Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	AST Type of Clearance	ın - NONE	Airport Da Runway Runway Runway Runway	RPORT/STRIP	N/A N/A	
Personnel Information Pilot-In-Command	Age - 31 Biennial Flight Review Current - N/A Months Since - N/A Aircraft Type - N/A	Total - Make/Model-	it Time (Ho	ours) Last 24	Hrs -	-IMIT 3 6 13
Instrument Rating(s) - NONE						
Narrative THE STUDENT PILOT WAS ON HIS FIRST SOLO X-COUN LOCATE HIS DESTINATION AIRPORT SO HE ELECTED T HE BECAME CONCERNED, HAVING ONLY 1/4 FULL FUEL STATED THAT HIS AIRSPEED WAS EXCESSIVE AND THE SUFFICIENT ALTITUDE COULD NOT BE GAINED IN TIM AN OAK TREE AND CAME TO REST INVERTED.	O RETURN TO THE AIRPORT TANKS AND ELECTED TO MA ACFT FLOATED AS HE TRIE	OF DEPARTURE. EN ROUT KKE A PRECAUTIONARY LA D TO LAND SO HE DECID	E TO THE D NDING IN A ED TO PERF	DEPARTURE AI A FARM FIELD FORM A GO-AR	RPORT). HE !OUND.	

File No	915 6/12/89	MADISON HEIGHTS, VA	A/C Reg. No. N7605T	Time (Lcl) - 1130 EDT	
	IN FLIGHT COLLI: GO-AROUND (VFR)	SION WITH OBJECT			
2. WEATHER CONDI 3. BECAME LOST 4. PRECAUTIONARY 5. LACK OF T 6. AIRSPEED - EX 7. GO-AROUND - A 8. ALTITUDE - IN	TION - HAZE/SMOKE //DISORIENTED - INAD	COMMAND COMMAND COMMAND			
Occurrence #2	IN FLIGHT COLLI	SION WITH TERRAIN/WATER			

----Probable Cause----

Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: STUDENT PILOT'S FAILURE TO MAINTAIN PROPER AIRSPEED DURING THE LANDING ATTEMPT WHICH RESULTED IN THE INITIATION OF A GO-AROUND. CONTRIBUTING FACTORS TO THE ACCIDENT WERE THE PILOT'S POOR PREFLIGHT PLANNING AND HIS BECOMING DISORIENTED DURING THE FLIGHT. ALSO CONTRIBUTING WAS THE LOW FUEL LEVEL AND THE PILOT'S LACK OF TOTAL EXPERIENCE.

-Basic Information Type Operating Certificate-NONE (GENERA)	_ AVIATION) Aircraf	t Damage		Inju	ries	
	SUBSTA		Fatal	Serious		None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	Θ	0	3
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - PIPER PA-32-300	Eng Make/Model - Li			Installed/		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S	tall Warni	ng System	- YES
Max Gross Wt - 3400 No. of Seats - 6	Engine Type - RE Rated Power -	CIP-FUEL INJECTED 300 HP				
NO. OT Seats - 6	Rated Power -	300 HP				
-Environment/Operations Information	.					
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point SALISBURY,MD	Ī	ON AIR	PURI		
Completeness - N/A	Destination		Airport D	2+2		
Basic Weather - VMC	SAME AS ACC/INC		•	MSBURG		
Wind Dir/Speed- 180/005 KTS	SAME AS AGO, INC				- 13	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid		60
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface		
Lowest Ceiling - NONE	Type of Clearance	- NONE		Status		
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP	-			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		Medical Certifica			AIVERS/LIM	1IT
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Biennial Flight Review		ht Time (H	•	4 llno	
SE LAND, ME LAND	Current - YES Months Since - 3	Make/Model-		Last 2 Last 3		1 4
JE LAND, ME LAND	Aircraft Type - C-172	Instrument-	194	Last 9	O Days-	6
	Afficialt Type - C-1/2	Multi-Eng -		Last 5	U Days-	0
Instrument Rating(s) - AIRPLANE						
-Narrative			_			
PLT REPORTED THAT WHILE ON SHORT FINAL AT						
S OF ALT. THE ACFT DESCENDED RAPIDLY AND C	DNTACTED THE RWY FROM AN AL DS FROM 180 DEGS AT 5 KTS (L. THE LAN	DING WAS B	EING	

File No 933	7/30/89 WILLIAMSBURG,VA	A/C Reg. No. N4022R	Time (Lcl) - 1100 EDT	
) LANDING DING - FLARE/TOUCHDOWN			
Finding(s) 1. FLARE - IMPROPER - Pi	LOT IN COMMAND			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO MAINTAIN AIRCRAFT CONTROL BY IMPROPERLY FLARING THE AIRPLANE DURING THE LANDING APPROACH.

File No 984 8/16/89 ORANG	GE,VA 	A/C Reg. No. N	1816FW	T 	ime (Lcl) -	- 1205 EDT	
-Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL	AL AVIATION)	Aircraft Damage SUBSTANTIAL Fire	Crew	Fatal O	Injur Serious O	ries Minor O	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	_	0	0	1 3
-Aircraft Information							
Make/Model - BEECH B55 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 5100 No. of Seats - 6	Number En	Model - CONTINENTAL gines - 1 pe - RECIP-FUEL er - 260 HP			Installed/ <i>l</i> Stall Warnir		
	Itinerary Last Depar	ture Point		Airport ON AIR	Proximity PORT		
Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- LIGHT AND VARIABLE	SAME AS Destination JACKSONV	ACC/INC ILLE,FL			i, CO ′Ident ·	- 25	
Visibility - 2.000 SM Lowest Sky/Clouds - PART OBS Lowest Ceiling - NONE Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAYLIGHT		ight Plan - IFR earance - IFR		Runway	Lth/Wid - Surface - Status -		75
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 59 Biennial Flight			te - VALID ht Time (F	MEDICAL-WA	AIVERS/LIM	IIT
PRIVATE SE LAND, ME LAND	Current Months Since Aircraft Typ	- YES Tota - 16 M ake e - B55 Inst	il - e/Model- rument- ii-Eng -	2553 81 572	Last 24 Last 30 Last 90	Days-	0 8 10 0
Instrument Rating(s) - AIRPLANE							
Narrative E PLT SAID HE WAS ON TAKEOFF ROLL, NEAR LI E ELEVEN YEAR OLD PASSENGER IN THE SECOND I P AND RUSH OF AIR. THE PLT SAID HE THOUGHT KEOFF. THE PLT SAID HE WAS UNABLE TO STOP	ROW RIGHT SEAT OPE THAT EITHER A DOO	NED THE EMERGENCY W R HAD OPENED OR A T	INDOW. TH	E PLT SAID LOWN, SO F	HE HEARD A	A LOUD THE	

File No. - 984 8/16/89 ORANGE, VA A/C Reg. No. N816FW Time (Lcl) - 1205 EDT

Occurrence #1 OVERRUN

Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. WINDOW, CABIN OPEN
- 2. EMERGENCY EQUIPMENT INADVERTENT ACTIVATION PASSENGER
- 3. TERRAIN CONDITION WET
- 4. ABORT PERFORMED PILOT IN COMMAND
- 5. TERRAIN CONDITION DITCH
- 6. PASSENGER BRIEFING INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE TAKEOFF WAS REJECTED WHEN THE PILOT WAS STARTLED BY THE SOUND FROM THE EMERGENCY WINDOW EXIT WHICH WAS INADVERTENTLY OPENED BY A PASSENGER. THE PILOT WAS UNABLE TO STOP THE AIRCRAFT IN TIME TO AVOID OVERRUNNING THE RUNWAY.

	A,WI	A/C F	Reg. No. N6130	06	T	ime (Lcl) -	· 1245 CS	Г
e-NONE (GENERAL	AVIATION)		ft Damage			Injur		
		SUBSTA	ANTIAL		Fatal		Minor	None
-INSTRUCTIONAL		Fire		Crew		0	0	2
-14 CFR 91 -LANDING		NONE		Pass	0	0	0	0
	Fra Make	/Madal 00	ONIT TAIFAITAL O	200 4		Inctalled/	otivoted.	VEC/NC
				200-A				
IVED				CADDUDI		tali warnii	ig system	- YES
	•			JAKBUKI				
rmation	T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.							
TAL MY CEDVICE		aduma Dadaa	.		•	•		
	•		τ		UN AIR	PURT		
		•			Ainmont D	0+0		
NOT PERTINENT		ı			•		INIT	
KTS	LOCAL							
	ATC/Airspace	2						75
			- NONE					
								5
				TNG	Rainay	5 14 145	5	
	, ypo , (po)	249	1011025 211112	21110				
	Age - 25		Medical Ceri	tifica [.]	te - VALID	MEDICAL-NO	WAIVERS,	/LIMIT
	Biennial Flight	Review		Fligh	nt Time (H	ours)		
	Current	- YES	Total	-	650	Last 24	1 Hrs -	6
	Months Since	e - 1	Make/Mod	del-	250	Last 30	Days-	50
	Aircraft Ty	oe - PA-23	Instrume	ent-	38	Last 90	Days-	150
			Multi-Er	ng -	13			
- AIRPLANE								
	-14 CFR 91 -LANDING	-14 CFR 91 -LANDING DJ Eng Make, Number Engine Ty Rated Pount PMATERIAL WAY SERVICE Last Depail E SAME AS NOT PERTINENT Destination LOCAL KTS SM ATC/Airspace 10000 FT SCATTERED Type of Find Find Find Find Find Find Find Find	-14 CFR 91 -LANDING DJ Eng Make/Model - CC Number Engines - Engine Type - RI Rated Power - Take Power - The SAME AS ACC/INC NOT PERTINENT Destination LOCAL KTS SM ATC/Airspace 10000 FT SCATTERED Type of Flight Plan NONE Type of Clearance NONE Type Apch/Lndg NONE DAYLIGHT Age - 25 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - PA-23	-14 CFR 91 -LANDING DJ Eng Make/Model - CONTINENTAL 0-2 IXED Number Engines - 1 Engine Type - RECIPROCATING-0 Rated Power - 100 HP TMATION Itinerary AL WX SERVICE Last Departure Point SAME AS ACC/INC NOT PERTINENT Destination LOCAL KTS SM ATC/Airspace 10000 FT SCATTERED Type of Flight Plan - NONE NONE Type of Clearance - NONE NONE Type Apch/Lndg - FORCED LANDINONE DAYLIGHT Age - 25 Medical Cert Biennial Flight Review Current - YES Total Months Since - 1 Make/Mod Aircraft Type - PA-23 Instrume Multi-En	-14 CFR 91 -LANDING DJ Eng Make/Model - CONTINENTAL 0-200-A Number Engines - 1 Engine Type - RECIPROCATING-CARBURI Rated Power - 100 HP TMAL WX SERVICE Last Departure Point LE SAME AS ACC/INC NOT PERTINENT Destination LOCAL KTS SM ATC/Airspace 10000 FT SCATTERED Type of Flight Plan - NONE NONE Type of Clearance - NONE NONE Type Apch/Lndg - FORCED LANDING NONE DAYLIGHT Age - 25 Medical Certificat Biennial Flight Review Current - YES Total - Months Since - 1 Make/Model- Aircraft Type - PA-23 Instrument- Multi-Eng -	-14 CFR 91 -LANDING Eng Make/Model - CONTINENTAL 0-200-A ELT Number Engines - 1 S Engine Type - RECIPROCATING-CARBURETOR Rated Power - 100 HP Titinerary Airport AL WX SERVICE Last Departure Point ON AIR E SAME AS ACC/INC NOT PERTINENT Destination Airport D LOCAL L.O. S KTS SM ATC/Airspace Runway SM ATC/Airspace Runway 10000 FT SCATTERED Type of Flight Plan - NONE Runway NONE Type Apch/Lndg - FORCED LANDING NONE Type Apch/Lndg - FORCED LANDING NONE DAYLIGHT Age - 25 Medical Certificate - VALID Biennial Flight Review Flight Time (H Current - YES Total - 650 Months Since - 1 Make/Model - 250 Aircraft Type - PA-23 Instrument - 38 Multi-Eng - 13	-14 CFR 91 -LANDING Eng Make/Model - CONTINENTAL D-200-A ELT Installed/A TIXED Number Engines - 1 Stall Warning Engine Type - RECIPROCATING-CARBURETOR Rated Power - 100 HP TMATION Itinerary Airport Proximity ON AIRPORT E SAME AS ACC/INC NOT PERTINENT Destination Airport Data LOCAL L.O. SIMENSTAD MC KTS SM ATC/Airspace Runway Ident 10000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - NONE NONE Type Apch/Lndg - FORCED LANDING NONE DAYLIGHT Age - 25 Medical Certificate - VALID MEDICAL-NC Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - PA-23 Instrument - 38 Last 96 Multi-Eng - 13	-14 CFR 91 -LANDING DJ Eng Make/Model - CONTINENTAL 0-200-A ELT Installed/Activated Number Engines - 1 Stall Warning System Engine Type - RECIPROCATING-CARBURETOR Rated Power - 100 HP TMATION Itinerary Airport Proximity ON AIRPORT SAME AS ACC/INC NOT PERTINENT Destination Airport Data LOCAL L.O. SIMENSTAD MUNI KTS SM ATC/Airspace Runway Ident - 28 SM ATC/Airspace Runway Uth/Wid - 3000/ 10000 FT SCATTERED Type of Flight Plan - NONE Runway Status - DRY NONE Type Apch/Lndg - FORCED LANDING NONE DAYLIGHT Age - 25 Medical Certificate - VALID MEDICAL-NO WAIVERS, Biennial Flight Review Current - YES Total - 650 Last 24 Hrs - Months Since - 1 Make/Model - 250 Last 30 Days-Aircraft Type - PA-23 Instrument - 38 Last 90 Days-Multi-Eng - 13

File No. - 894 1/15/89 OSCEOLA, WI A/C Reg. No. N61306 Time (Lcl) - 1245 CST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. AIRCRAFT PREFLIGHT - INADEQUATE - DUAL STUDENT 2. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 3. FLUID, FUEL - CONTAMINATION 4. FLUID, FUEL - WATER Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 5. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE STUDENT PILOT, INADEQUATE SUPERVISION (TO ASSURE A PROPER PREFLIGHT) BY THE INSTRUCTOR PILOT (CFI), AND WATER CONTAMINATION OF THE FUEL. THE TERRAIN WAS CONSIDERED TO BE A CONTRIBUTING FACTOR.

<pre>sic Information Type Operating Certificate-NONE (GENER</pre>	AL AVIATION) Aircraft	Damage		Injur	nies.	
Type operating certificate None (GENER	SUBSTANT		Fatal	-		None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	Ō	Ō	Ö	1
Accident Occurred During -LANDING						
rcraft Information						
Make/Model - PIPER PA-28R-201	Eng Make/Model - LYCC	MING IO-360-C1C6	ELT I	nstalled/A	ctivated -	YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		St	all Warnir	ng System -	YES
Max Gross Wt - 2750	Engine Type - RECI	P-FUEL INJECTED				
No. of Seats - 4	Rated Power - 2	200 HP				
vironment/Operations Information						
ather Data	Itinerary		Airport P	•		
Wx Briefing - NO RECORD OF BRIEFIN	•		ON AIRF	ORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport Da			
Basic Weather - VMC	LOCAL		STEVENS			
Wind Dir/Speed- 230/009 KTS					- 21	
Visibility - 10.0 SM	ATC/Airspace	NONE			6028/ 1	20
Lowest Sky/Clouds - CLEAR	Type of Flight Plan - Type of Clearance -			Surface -		
Lowest Ceiling - NONE	Type of Clearance - Type Apch/Lndg -		Runway	Status -	- און	
Obstructions to Vision- NONE	Type Apch/Lnag -	FULL STUP				
Precipitation - NONE Condition of Light - DAYLIGHT						
rsonnel Information						
ilot-In-Command	Age - 53 M	Medical Certifica			IVERS/LIMI	Τ
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (Ho			
PRIVATE	Current - YES	Total -	1045			. 0
SE LAND	Months Since - 11	Make/Model-	945			
	Aircraft Type - PA-28R	Instrument-	64	Last 90	Days-	46
Instrument Rating(s) - AIRPLANE						
SE LAND	Current - YES Months Since - 11 Aircraft Type - PA-28R	Make/Model- Instrument-	945 64		Days- UNK	. ,

File No 8	92 2/12/89	STEVENS POINT,WI	A/C Reg. No. N16TP	Time (Lc1) - 1400 CST
Occurrence #1 Phase of Operation				
Finding(s) 1. DIRECTIONAL CON 2. GROUND LOOP/SWE		NED - PILOT IN COMMAND - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	GEAR COLLAPSED LANDING			
Finding(s) 3. LANDING GEAR,MA	IN GEAR - OVERLOAD			
Probable Cause				
The National Transpo	rtation Safety Boa	rd determines that the P	robable Cause(s) of this accid	dent was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN DIRECTIONAL CONTROL WHICH RESULTED IN AN INADVERTENT GROUND SWERVE.

File No 849 4/23/89 WATER	TOWN, WI A/C Re	g. No. N39868	Time (Lcl) - 1800 CST			Т
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	L AVIATION) Aircraft SUBSTAN Fire NONE			Injur Serious O O	ies Minor O	None 1
Accident Occurred During -TAXI						
-Aircraft Information Make/Model - BELLANCA 17-30A Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3325 No. of Seats - 4	Eng Make/Model - CON Number Engines - 1 Engine Type - REC Rated Power -			Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point SAME AS ACC/INC		Airport ON AIR	Proximity PORT		
Completeness - N/A Basic Weather - VMC	Destination UNK/NR		Airport D			
Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- UNK/NR Precipitation - UNK/NR Condition of Light - DUSK	ATC/Airspace Type of Flight Plan - Type of Clearance - Type Apch/Lndg -	NONE	Runway Runway	Ident - Lth/Wid - Surface - Status -	UNK/NR	
-Personnel Information Pilot-In-Command		Medical Certifica	te - VALID	MEDICAL-WA	IVERS/LI	MIT
Certificate(s)/Rating(s) COMMERCIAL SE LAND	Biennial Flight Review Current - YES Months Since - 16 Aircraft Type - 17-30A	Total - Make/Model-	1248	Last 24 Last 30	Hrs - U Days- U Days- U	NK/NR
Instrument Rating(s) - AIRPLANE						
-Narrative ER THE ENG WAS STARTED FOR A FLT, THE ACFT STATED THAT THE ENG ACCELERATED RAPIDLY A T MOVED APRX 20 YDS.						

File No 8	49 4/23/89	WATERTOWN, WI	A/C Reg. No. N39868	Time (Lcl) - 1800 CST
Occurrence #1	MISCELLANEOUS,	OTHER		
Phase of Operation	STANDING - STA	ARTING ENGINE(S)		
Finding(s)				
 BRAKES(NORMAL) 		F - PILOT IN COMMAND		
2. THROTTLE/POWER	CONTROL - IMPROF	PER USE OF - PILOT IN CO	DMMAND	
Occurrence #2 Phase of Operation		ISION WITH OBJECT		
Phase of Operation	TAXI			
Finding(s)	5T 5.0.150			
3. OBJECT - AIRCRA	FI PARKED			
Probable Cause	<u>.</u>			
•	,		ne Probable Cause(s) of this accide BUTING FACTOR WAS THE PARKED AIRCRA	

File No 898 5/14/89 OJIBV	WA,WI A/	C Reg. No. N82702	Т	ime (Lcl) -	1710 CDT	Г
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91			_	Injur Serious O O	ies Minor O	None 1 2
Accident Occurred During -TAKEOFF						
Aircraft Information Make/Model - PIPER PA-28RT-201 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2750 No. of Seats - 4	Number Engines -	LYCOMING IO-360-C1C6 1 RECIP-FUEL INJECTED 200 HP		Installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - NWS Method - TELETYPE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 130/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 1000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Po SAME AS ACC/INC Destination MINNEAPOLIS,MN ATC/Airspace ITERED Type of Flight Pl Type of Clearance Type Apch/Lndg	an - NONE	ON AIR Airport D RAINBO Runway Runway Runway	ata W Ident - Lth/Wid - Surface -		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 22 Biennial Flight Review Current - YES Months Since - 5 Aircraft Type - BE-	Total - Make/Model-	ht Time (H		Hrs - Days-	/LIMIT 0 75 248
Instrument Rating(s) - AIRPLANE						
THE 3300' GRASS STRIP WAS RPRTD TO BE SURROUN PASSENGER PICKUP, THE PLT WALKED THE STRIP. USE THE WEST 2500' OF THE STRIP. HE ESTIMATED HE INITIATED A TAKEOFF TOWARD THE WEST, WHICH AS FAST AS EXPECTED. WHEN IT REACHED A PREDETO AVOID TALL TREES/OBSTACLES AT THE END OF IT WENT INTO BRUSH & SMALL TREES & WAS DAMAGE THE PLT RPRTD THE PREVAILING WIND WAS CALM.	THERE WAS A WET AREA & SO O THE DISTANCE NEEDED TO H WAS SLIGHTLY UPHILL. DR TERMINED POINT & WAS NOT THE RWY, HE INTENTIONALLY	FT SPOTS ON THE EAST CLEAR A 50′ OBSTACLE G THE TAKEOFF ROLL, T "BREAKING GROUND," T MANEUVERED THE ACFT	END, SO TH DRG TAKEOF HE ACFT DI HE PLT ABO TO THE LEF	E PLT ELECT F WOULD BE D NOT ACCEL RTED THE TA T SUBSEQUE	ED TO 2160'. ERATE KEOFF. NTLY,	

File No. - 898

5/14/89

OJIBWA,WI

A/C Reg. No. N82702

Time (Lcl) - 1710 CDT

Occurrence #1
Phase of Operation

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION WET
- 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION UPHILL
- 4. WEATHER CONDITION UNFAVORABLE WIND
- 5. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 6. AIRSPEED(VR) NOT ATTAINED -
- 7. ABORTED TAKEOFF DELAYED PILOT IN COMMAND
- 8. TERRAIN CONDITION HIGH VEGETATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT AND HIS DELAY IN ABORTING THE TAKEOFF. CONTRIBUTING FACTORS WERE: THE WET/UPWARD SLOPING CONDITION OF THE AIRSTRIP, UNFAVORABLE WIND, HIGH OBSTRUCTIONS (TALL TREES/OBSTACLES AT THE END OF THE RUNWAY), AND HIGH VEGETATION (BRUSH & SMALL TREES).

A/C Reg. No. N4054J Time (Lc1) - 1500 CDT			Т	
Injuries Fatal Serious Minor None				
0	0	1	0	
ELT	Installed/	Activated	- YES/N	
5	Stall Warnir	ng System	- YES	
ETOR				
Airport	Proximity			
OFF AIRPORT/STRIP				
Airport D	Data			
		- N/A		
	y Lth/Wid ·			
	y Surface -	- N/A		
Runway	y Status -	- N/A		
	D MEDICAL-WA	AIVERS/LI	MIT	
ht Time (H				
2470		4 Hrs -	1	
	Last 30	O Days-	6	
300 970	Last 90	O Days-	12	
370				
E AIRCRAFT PARTED WIT N UNUSEABL	TH MINIMAL LE FUEL" AT	IN		
 	HE AIRCRAF PARTED WIT IN UNUSEABI	HE AIRCRAFT IMPACTED PARTED WITH MINIMAL IN UNUSEABLE FUEL" AT	HE AIRCRAFT IMPACTED IN	

7/12/89 File No. - 922 IOLA,WI A/C Req. No. N4054J Time (Lcl) - 1500 CDT Occurrence #1 LOSS OF ENGINE POWER (TOTAL) - NON-MECHANICAL TOTAL OF LARL OF THE NON-MECHANICAL TOTAL OF THE NON-M Phase of Operation MANEUVERING Finding(s) 1. FLUID, FUEL - STARVATION 2. PLANNING-DECISION - POOR - PILOT IN COMMAND 3. EMERGENCY PROCEDURE - PERFORMED - PILOT IN COMMAND 4. WEATHER CONDITION - TAILWIND 5. DESCENT - MISJUDGED - PILOT IN COMMAND 6. UNSUITABLE TERRAIN - ENCOUNTERED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 7. OBJECT - TREE(S) ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE IMPROPER PREFLIGHT PLANNING BY THE PILOT IN COMMAND RESULTING IN THE AIRPLANE FUEL QUANTITY BEING NEAR THE
UNUSABLE QUANTITY WHICH RESULTED IN TOTAL LOSS OF ENGINE POWER DUE TO FUEL STARVATION WHILE MANEUVERING. CONTRIBUTING
TO THE ACCIDENT WAS THE PILOTS MISJUDGED APPROACH DURING A FORCED LANDING RESULTING IN COLLISION WITH TREES.

File No 907 7/20/89 BLAC	KRIVERFALLS,WI A/	A/C Reg. No. N48313 Time (Lc1) - 0800 CDT				,WI A/C Reg. No. N48313		
Basic Information Type Operating Certificate-AGRICULTURA	L AIRCRAFT Airc	raft Damage		Injuri	es			
31		TROYED	Fatal			None		
Type of Operation -AERIAL APPL	ICATION Fire	С	rew O	0	1	0		
Flight Conducted Under -14 CFR 137		E P	ass 0	0	0	0		
Accident Occurred During -LANDING								
Aircraft Information								
Make/Model - HILLER UH-12E	Eng Make/Model -	LYCOMING VO-540-C	-2-A ELT	Installed/Ac	tivated	- NO -N/A		
Landing Gear - SKID	Number Engines -			Stall Warning				
Max Gross Wt - 2800	Engine Type -	RECIPROCATING-CAR			- ,			
No. of Seats - 3	Rated Power -							
Environment/Operations Information								
Weather Data	Itinerary		Airport	Proximity				
Wx Briefing - NO RECORD OF BRIEFIN		int	•	IRPORT/STRIP				
Method - N/A	SAME AS ACC/INC			,				
Completeness - N/A	Destination		Airport [Data				
Basic Weather - VMC	SAME AS ACC/INC		Amport	Julia				
Wind Dir/Speed- LIGHT AND VARIABLE	3AME A3 A00/ 1140		Punway	/ Ident -	N/A			
Visibility - 10.0 SM	ATC/Airspace			/ Lth/Wid -				
Lowest Sky/Clouds - CLEAR	Type of Flight Pl	an - NONE		Surface -				
Lowest Ceiling - NONE	Type of Clearance	- NONE		/ Status -				
Obstructions to Vision- NONE	Type Of Creat ance	- STRAIGHT-IN	Kuliwa	Jiaius	IN/ A			
Precipitation - NONE	Type Apcily Endg	FORCED LANDIN	·C					
Condition of Light - DAYLIGHT		TORCED LANDIN	·u					
Personnel Information Pilot-In-Command	Ago - 29	Medical Certif	ica+o - VALTU	MEDICAL -NO	WATVEDS	LIMIT		
Certificate(s)/Rating(s)	Age - 39 Biennial Flight Review	Medical certif	light Time (WAIVERS/	LIMII		
COMMERCIAL	Cumpont VEC	Total	and the transfer of	Tours)		IZ /ND		
COMMERCIAL	Current - YES Months Since - 15	Moles/Model	- 0314	Last 24	HIS - UN	K/NK		
LIEL TOORTER	Aircraft Type - UH-	Make/Moder		Last 30	Days- UN	K/NK		
HELICOPTER	Aircraft Type - UH-	12E Instrument	- 75	Last 90 Rotorcra				
Instrument Rating(s) - NONE								
Instrument Rating(s) - NUNE								
Narrative DURING LIFTOFF WITH AN EXTERNAL LOAD HOPPER REPORTED SOMETHING SNAPPED FOLLOWED BY A LOS A SWITCH OF HANDS ON THE CONTROLS WAS MADE, THE PILOT ATTEMPTED TO LAND SETTING THE HOPP THE HOPPER CAUSING THE HELICOPTER TO TILT AN 70 FEET BEFORE IT CAME TO REST.	S OF THROTTLE CONTROL FRO LEFT HAND TO CYCLIC AND R ER DOWN FIRST FOLLOWED BY	M THE LEFT COLLECT IGHT HAND TO MASTE THE HELICOPTER. T	IVE/THROTTLE R COLLECTIVE, HE RIGHT SKI	CONTROL. /THROTTLE. CONTACTED				

File No. - 907 7/20/89 BLACKRIVERFALLS, WI A/C Reg. No. N48313 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. THROTTLE/POWER LEVER, CABLE - FAILURE, PARTIAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 2. LOAD JETTISON - NOT PERFORMED - PILOT IN COMMAND 3. EXTERNAL LOAD EQUIPMENT - ENCOUNTERED - PILOT IN COMMAND 4. DISTANCE - MISJUDGED - PILOT IN COMMAND Occurrence #3 DRAGGED WING, ROTOR, POD, OR FLOAT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. ROTOR SYSTEM, MAIN ROTOR BLADE - FRACTURED Occurrence #4 ROLL OVER Phase of Operation LANDING - FLARE/TOUCHDOWN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S FAILURE TO JETTISON THE EXTERNAL LOAD FOLLOWED BY HIS MISJUDGEMENT OF DISTANCE TO AVOID COLLISION WITH THE EXTERNAL LOAD.

File No 880 8/27/89 EAU C	_AIRE,WI A/	A/C Reg. No. N8886 Time (Lc1) - 1404 CDT				
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL	SUE Fire		Fatal Crew O	0	Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NON	l E	Pass O	0	0	1
Aircraft Information Make/Model - PIPER PA-23-160 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3800 No. of Seats - 4	Number Engines -	LYCOMING 0-320- 2 RECIPROCATING-C 160 HP	ARBURETOR	Installed// Stall Warnin	ng System	- YES
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC	an - VFR e - UNK/NR - TOUCH AND G	ON AI Airport I EAU C Runwa Runwa Runwa Runwa Runwa	Data LAIRE COUNTY y Ident y Lth/Wid y Surface	- 32 - 4999/	100
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 31 Biennial Flight Review Current - YES Months Since - 7 Aircraft Type - BE-	Medical Cert Total Make/Mod Total Instrume	ificate - VALI Flight Time (i - 1193 el- 4 nt- 95 g - 32	Hours)	4 Hrs - Days-	1 40 144
Instrument Rating(s) - AIRPLANE				to the second se	e.	
Narrative E PILOT STATED THAT HIS INTENTION WAS TO PE "RAISED WHAT I THOUGHT WAS THE FLAP CONTRO ISED THE GEAR CONTROL LEVER INSTEAD" NWAY, WITH THE LANDING GEAR UP. THE PILOT R THE ACCIDENT MAKE AND MODEL AIRCRAFT. HE A AIRCRAFT WITH A DIFFERENT FLAP/GEAR HANDLE	L LEVER WITHOUT LOOKING THE AIRCRAFT CAME TO A EPORTED A TOTAL FLIGHT T LSO STATED THAT HIS FLIG	DOWN I REA STOP ON THE GRAS TIME OF 1,193 HOU	LIZED THAT I I S ON THE RIGHT RS, OF WHICH 4	NADVERTENTL' SIDE OF THI HOURS WERE	(· <u>=</u>	

File No. - 880 8/27/89 EAU CLAIRE,WI A/C Reg. No. N8886 Time (Lcl) - 1404 CDT

Occurrence #1
Phase of Operation

Occurrence #1 MISCELLANEOUS/OTHER

Phase of Operation LANDING

Finding(s)

1. TOUCH-AND-GO

- 2. GEAR RETRACTION INADVERTENT PILOT IN COMMAND
- 3. HABIT INTERFERENCE PILOT IN COMMAND
- 4. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADVERTENT RETRACTION OF THE LANDING GEAR BY THE PILOT. HIS HABIT INTERFERENCE AND LACK OF EXPERIENCE IN THE TYPE OF AIRCRAFT WERE CONTRIBUTING FACTORS.

ic Information ype Operating Certificate-NONE (GENERAI		t Damage		Injur		
0.0	SUBSTA		Fatal	Serious	Minor	None
ype of Operation -PERSONAL light Conducted Under -14 CFR 91	Fire NONE	Cre Pas		0	0	1
ccident Occurred During -LANDING	NOINE	Pas	5 0	O	O	U
craft Information						
lake/Model - CESSNA 170A	Eng Make/Model - CO			Installed/Ad		
anding Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warning	g System	- YES
ax Gross Wt - 2200	Engine Type - RE Rated Power -		RETUR			
lo. of Seats - 4	Rated Power -	145 HP				
ironment/Operations Information ther Data	Itinerary		Ainmont	Proximity		
x Briefing - NWS	Last Departure Point		ON AIR			
Method - TELEPHONE	BLOOMINGTON, IN		ON AIR	FORT		
Completeness - UNK/NR	Destination		Airport D	ata		
asic Weather - VMC	SAME AS ACC/INC		JACKSO			
Wind Dir/Speed- 080/009 KTS	,		Runway	Ident -	03	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -	4000/	75
Lowest Sky/Clouds - CLEAR	Type of Flight Plan		•		ASPHALT	
Lowest Ceiling - NONE	Type of Clearance			Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
sonnel Information lot-In-Command	Age - 42	Medical Certific		MEDICAL -NO	WATVEDS	/: TMTT
Certificate(s)/Rating(s)	Age - 42 Biennial Flight Review		ght Time (H		WAIVERS	CIMII
PRIVATE			•	Last 24	Hrs -	3
SE LAND	Current - YES Months Since - 20	Make/Model-	158	Last 30		19
	Aircraft Type - C-150		0	Last 90	Days-	29
to the second se				Rotorcra	aft -	0
Instrument Rating(s) - NONE						
Instrument Rating(s) - NONE	HE EAST AND THE AIRPORT UNI ED TO USE RUNWAY 21. UPON T	COM REPORTED LOCA	L TRAFFIC W	Rotorcra	aft -	

File No. - 912 3/23/89 RAVENSWOOD,WV A/C Reg. No. N9187A Time (Lc1) - 1230 EST

Occurrence #1
Phase of Operation

LOSS OF CONTROL - ON GROUND

Operation LANDING

Finding(s)

1. WEATHER CONDITION - TAILWIND

2. WRONG RUNWAY - SELECTED - PILOT IN COMMAND

3. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOTS DECISION TO LAND WITH A TAILWIND AND INADEQUATELY COMPENSATING FOR THE WIND CONDITIONS.

File No 972 4/06/89 RUPER	RT,WV A/C	Reg. No. N9502C	Т	ime (Lc1)	- 1258 EDT	
Basic Information Type Operating Certificate-NONE (GENERA		raft Damage FROYED	Fatal	Inju Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -CRUISE	Fire NONE			0	0	0
Aircraft Information Make/Model - BEECH C35 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2700 No. of Seats - 4	Number Engines -	CONTINENTAL E-225-8 1 RECIPROCATING-CARBUR 225 HP	S ETOR	Installed/ tall Warni	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - UNK/NR Lowest Sky/Clouds - N/A Lowest Ceiling - 800 FT OVER Obstructions to Vision- UNK/NR Precipitation - SNOW SHOWER Condition of Light - DAYLIGHT	Itinerary Last Departure Por PARKERSBURG, WV Destination LEWISBURG, WV ATC/Airspace Type of Flight Pla CCAST Type of Clearance Type Apch/Lndg	an - NONE	Airport OFF AI Airport D Runway Runway Runway	Proximity RPORT/STRIM Data Ident Lth/Wid Surface	- N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 38 Biennial Flight Review Current - YES Months Since - 18 Aircraft Type - C35	Total - Make/Model- Instrument-	ht Time (F 445 187 9		4 Hrs -	LIMIT 1 2 3
Instrument Rating(s) - NONE		Multi-Eng -	0			
Narrative THE NON-INSTRUMENT RATED PVT PLT AND 3 PAX DF TOULD BE FOUND WHO SAW THE ACCIDENT, A LADY DE T PASSED OVER HER RESIDENCE WHICH WAS AT AN EVERCAST ABOVE THE ACFT AND THAT THE ENGINE SENTY PREIMPACT FAILURES OR MALFUNCTIONS OF THE ROUT 45 MINUTES PRIOR TO THE ACCIDENT OBSERVEHOWERS.	DID OBSERVE AN ACFT FLYING ELEVATION OF 2,600 FT AGI GOUNDED NORMAL. EXAMINATIO E AIRFRAME OR ENGINE. A CF	G TOWARD LWB AT AN AL L. SHE INDICATED THAT DN OF THE 3,800 FT MS FI FLYING 5 MILES SOU	T OF APRX THE CEILI L WRECKAGE THEAST OF	700-800 FT NG WAS SOL SITE DID THE ACCIDE	AGL AS ID NOT REVEAL NT SITE	

File No. - 972 4/06/89 RUPERT, WV A/C Reg. No. N9502C Time (Lc1) - 1258 EDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER

Finding(s)

Phase of Operation

- 1. WEATHER CONDITION LOW CEILING
- 2. WEATHER CONDITION OBSCURATION
- 3. WEATHER CONDITION SNOW
- 4. WEATHER CONDITION TURBULENCE
- 5. VFR FLIGHT INTO IMC INADVERTENT PILOT IN COMMAND

Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation CRUISE

CRUISE

Finding(s)

- 6. OBJECT TREE(S)
- 7. ALTITUDE INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT INADVERTANTLY FLEW INTO IMC WHILE TRYING TO MAINTAIN VFR AND COLLIDED WITH TREES DURING A STEEP TURN DURING HIS ATTEMPT TO TURN AWAY FROM IMC. THE WEATHER CONDITIONS THAT WERE DETERMINED TO BE FACTORS IN THIS ACCIDENT WERE: LOW CEILINGS, OBSCURATION, SNOW, AND TURBULENCE.

	NDSVILLE, WV A/C	Reg. No. N2487B		Time (Lcl) - 100		
Basic Information Type Operating Certificate-NONE (GENE		aft Damage		Injuries		
T		ROYED	Fatal		inor	None
Type of Operation -PERSONAL	Fire	Cre		0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	NONE	Pa	ss O	0	0	3
Aircraft Information						
Make/Model - BELL 47G-2		LYCOMING VO-435	ELT	Installed/Activ		
Landing Gear - SKID	Number Engines -			Stall Warning Sy	ystem -	NO
Max Gross Wt - 2450		RECIPROCATING-CARB	JRETOR			
No. of Seats - 3	Rated Power -	200 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI		nt	ON AI	RPORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport			
Basic Weather - VMC	LOCAL		MARSH	ALL COUNTY		
Wind Dir/Speed- 180/005 KTS				y Ident – UNI	•	
Visibility - 7.0 SM	ATC/Airspace			y Lth/Wid - UNI		
Lowest Sky/Clouds - 800 FT SC				y Surface - GR		
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runwa	y Status - DR'	Υ .	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 40	Medical Certific	cate - VALI	D MEDICAL-NO WA	IVERS/LI	TIMIT
Certificate(s)/Rating(s)	Biennial Flight Review Current - YES	Fl	ight Time (
COMMERCIAL, ATP, CFI	Current - YES	Total -				5
SE LAND, ME LAND	Months Since - 1			Last 30 Day		92
HELICOPTER , FREE BALLOON	Aircraft Type - BH-4	7G2 Instrument-	513	Last 90 Day		205
		Multi-Eng -	1166	Rotorcraft	-	75
GLIDER						
Instrument Rating(s) - AIRPLANE						
Narrative						
HE PLT WAS HOVERING THE ACFT ABOUT 3 FT AG						
HE FIELD WAS TO BE USED FOR AN OUTDOOR CON						
ACKED INTO ONE. THE TAIL ROTOR STRUCK THE						
ROUND AND ROLLED OVER. THE PLT REPORTED NO	MECHANICAL FAILURE OF THE	HELICOPTER. THE PL	RECEIVED	A ROTORCRAFT		
TING EIGHT DAYS BEFORE THE ACCIDENT. THE	PLT STATED HIS LACK OF EXPE	RIENCE WAS A FACTO	R IN THE AC	CIDENT.		
.,						

File No. - 910 6/17/89 MOUNDSVILLE, WV A/C Reg. No. N2487B Time (Lcl) - 1000 EDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation HOVER

Finding(s)

1. OBJECT - OTHER

- 2. ALTITUDE INADEQUATE PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE IN TYPE OPERATION PILOT IN COMMAND
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 5. CLEARANCE NOT MAINTAINED PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - IN FLIGHT

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

6. ROTOR SYSTEM, TAIL ROTOR BLADE - OVERLOAD

- 7. AIRCRAFT CONTROL NOT POSSIBLE -
- 8. ROTOR SYSTEM, TAIL ROTOR BLADE SEPARATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO MAINTIAN DIRECTIONAL CONTROL AND OBSTACLE CLEARANCE WHILE HOVERING AT LOW ALTITUDE. A TAIL ROTOR BLADE STRUCK AN OBSTACLE CAUSING AN OVERLOAD SEPARATION FAILURE OF THE BLADE.

File No 925 7/07/89 WI	LLIAMSON, WV	A/C Reg. No	o. N51516	T	ime (Lcl) -	1240 EDT	
-Basic Information Type Operating Certificate-NONE (GEN	IERAL AVIATION)	Aircraft Dama		Fatal	Injur Serious	ies Minor	None
Type of Operation -BUSINESS		Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pass	-	1	1	O
Accident Occurred During -TAKEOFF							
-Aircraft Information							
Make/Model - HUGHES 500D		odel - ALLISON	250-C20B		Installed/A		
Landing Gear - SKID	Number Eng			5	Stall Warnin	g System	- NO
Max Gross Wt - 3000	Engine Typ						
No. of Seats - 5	Rated Powe	r - 420 I	HP 				
-Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - FSS	Last Depart			OFF AI	RPORT/STRIP		
Method - UNK/NR	SAME AS A	CC/INC					
Completeness - UNK/NR	Destination			Airport D)ata		
Basic Weather - VMC	PIKESVILL	E,KY					
Wind Dir/Speed- CALM						N/A	
Visibility - 7.0 SM	ATC/Airspace				/ Lth/Wid -		
Lowest Sky/Clouds - 3000 FT S					/ Surface -		
Lowest Ceiling - NONE		arance - NON		Runway	/ Status -	N/A	
Obstructions to Vision- NONE	Type Apch/L	ndg - NON	Ξ				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 53		cal Certifica			IVERS/LIM	ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	eview		ht Time (F			
COMMERCIAL, ATP	Current		Total -		Last 24		
SE LAND, ME LAND, SE SEA	Months Since Aircraft Type	- 2	Make/Model-	1100	Last 30 Last 90	Days- UN	
HELICOPTER	Aircraft Type	- H-500D	Instrument-	645			
		ı	Multi-Eng -	7776	Rotorcr	aft -	1150
Instrument Rating(s) - AIRPLANE							
PLT REPORTED THAT AS THE HELICOPTER LI	FTED OFF FROM AN OPEN	FILED. A SEVE	RE VIBRATION	WAS EXPERI	ENCED AND T	HE	
ICOPTER DESCENDED TO TERRAIN IMPACT. PO							
MARKED WIRE WHICH CROSSED NEAR THE EDGE							
TRAVELED APRX 75 YARDS PRIOR TO CONTAC							
THE HELICOPTER AND THAT SUN GLARE WAS N					•		

File No 9	25 7/07/89	WILLIAMSON,WV	A/C Reg. No. N51516	Time (Lcl) - 1240 EDT
Occurrence #1 Phase of Operation				
Finding(s) 1. OBJECT - WIRE,S 2. PREFLIGHT PLA 3. CLEARANCE - NOT	NNING/PREPARATION	- POOR - PILOT IN COMMAN T IN COMMAND	D	
Occurrence #2 Phase of Operation				
Occurrence #3 Phase of Operation		ION WITH TERRAIN/WATER ROLLED		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO SEE AND AVOID THE WIRE WHICH CROSSED THE END OF THE FIELD IN WHICH HE WAS TAKING OFF.

Basic Information Type Operating Certificate-NONE (GENERA		t Damage		Injur		
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA Fire NONE	NTIAL Crew Pass		Serious O O	Minor O O	None 1 1
Aircraft Information						
Make/Model - CESSNA 175 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2350 No. of Seats - 4	Eng Make/Model - CC Number Engines - 1 Engine Type - RE Rated Power -		S	Installed/ <i>I</i> tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC	Itinerary Last Departure Point SAME AS ACC/INC Destination BRULE,NE	:	OFF AI Airport D SHERID	AN		
Wind Dir/Speed- 310/005 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	Lth/Wid - Surface -		
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 54 Biennial Flight Review		ht Time (H	ours)		
PRIVATE SE LAND	Current - YES Months Since - 1 Aircraft Type - PA-28		1900 7 5	Last 24 Last 30 Last 90	4 Hrs - Days- Days- UN	3 15 K/NR
Instrument Rating(s) - NONE						

File No. - 801 5/21/89 SHERIDAN, WY A/C Reg. No. N7557M Time (Lcl) - 1500 MDT LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Occurrence #1 Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, VALVE, EXHAUST - BINDING (MECHANICAL) 2. WEATHER CONDITION - HIGH DENSITY ALTITUDE 3. CLIMB - NOT POSSIBLE -Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - HIGH VEGETATION 5. TERRAIN CONDITION - HIDDEN OBSTRUCTION(S) 6. TERRAIN CONDITION - DITCH NOSE GEAR COLLAPSED Occurrence #4 Phase of Operation LANDING - ROLL Finding(s) 7. LANDING GEAR, NOSE GEAR - OVERLOAD ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: BINDING (STUCK) #4 EXHAUST VALVE. HIGH VEGETATION (HAY) AND A HIDDEN OBSTRUCTION (DITCH) WERE CONTRIBUTING FACTORS.

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File No. - 877
                            6/24/89
                                       GLENROCK, WY
                                                                 A/C Reg. No. N1887D
----Basic Information----
     Type Operating Certificate-NONE (GENERAL AVIATION)
                                                               Aircraft Damage
                                                                                                       Injuries
                                                                                                              Minor
                                                                SUBSTANTIAL
                                                                                           Fatal
                                                                                                   Serious
                                                                                                                        None
     Type of Operation
                               -PERSONAL
                                                               Fire
                                                                                    Crew
                                                                                           1
                                                                                                       0
                                                                                                                          0
     Flight Conducted Under
                               -14 CFR 91
                                                                NONE
                                                                                    Pass
     Accident Occurred During -CRUISE
  --Aircraft Information----
     Make/Model - BEECH 35
                                                   Eng Make/Model - CONTINENTAL E-185-8
                                                                                             ELT Installed/Activated - YES/YES
     Landing Gear - TRICYCLE-RETRACTABLE
                                                   Number Engines - 1
                                                                                                 Stall Warning System - YES
     Max Gross Wt - 2700
                                                   Engine Type - RECIPROCATING-CARBURETOR
     No. of Seats -
                                                   Rated Power
                                                                       205 HP
   Environment/Operations Information----
    Weather Data
                                                                                         Airport Proximity
                                                 Itinerary
     Wx Briefing
                     - FSS
                                                  Last Departure Point
                                                                                           OFF AIRPORT/STRIP
       Method
                     - TELEPHONE
                                                    BILLINGS, MT
       Completeness - PARTIAL, LMTD BY PILOT
                                                  Destination
                                                                                        Airport Data
     Basic Weather - VMC
                                                     BROOMFIELD, CO
       Wind Dir/Speed- 100/008 KTS
                                                                                            Runway Ident
       Visibility - 10.0 SM
                                                ATC/Airspace
                                                                                            Runway Lth/Wid - N/A
       Lowest Sky/Clouds -
                                400 FT SCATTERED Type of Flight Plan - NONE
                                                                                           Runway Surface - N/A
                                1400 FT BROKEN
                                               Type of Clearance - NONE
                                                                                            Runway Status - N/A
       Lowest Ceiling
       Obstructions to Vision- NONE
                                                  Type Apch/Lndg
                                                                      - NONE
                            - RAIN
       Precipitation
       Condition of Light
                            - NIGHT(DARK)
   -Personnel Information---
    Pilot-In-Command
                                            Age -
                                                      29
                                                                       Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT
      Certificate(s)/Rating(s)
                                            Biennial Flight Review
                                                                                    Flight Time (Hours)
                                                         - UNK/NR
                                                                                         1039
         COMMERCIAL
                                                 Current
                                                                           Total
                                                                                                     Last 24 Hrs - UNK/NR
                                                 Months Since - 3
                                                                           Make/Model-
                                                                                         700
                                                                                                     Last 30 Days-
         SE LAND
         HELICOPTER
                                                Aircraft Type - C-182RG Instrument-
                                                                                           9
                                                                                                     Last 90 Days-
                                                                                                                       91
                                                                                                     Rotorcraft -
                                                                                                                      125
         Instrument Rating(s) - AIRPLANE, HELICOPTER
----Narrative----
THE PLT DEPD JULESBURG, CO, BTN 1830 & 1900 MDT. HIS ORIGINAL DESTN WAS CASPER, WY, BUT DUE TO WX, HE FLEW TO BILLINGS,
MT & LNDD AT ABT 2200 MDT. AT ABT 2347, HE TOOK OFF WITH ONE PAX ON A FLT TO BROOMFIELD, CO. BFR TAKEOFF, HE WAS ADZD
THAT CLOUD BASES WERE AT 9000' MSL; HE REPLIED THEY WOULD NOT BE FLYING THAT HI. WHILE EN ROUTE, THE PAX NOTED THEY WERE
AT 7300'; THE PLT EXPLAINED THAT WOULD BE ABT 2800' TO 3000' AGL. LATER, THE PAX NOTED THEY WERE AT 7500'; THE PLT SAID
THAT WOULD BE ABT 2400' AGL IN THAT AREA. AT ABT 0200 MDT, THE PAX BCM SLEEPY & DOZED; WHEN SHE AWOKE, SHE BELIEVED THE
PLT HAD DOZED ALSO. SHE NUDGED HIM & HE STRAIGHTENED UP, SLAPPED HIS FACE & SAID HE WAS FINE. LATER, THE PAX DOZED AGAIN
& AWOKE WHEN THE ACFT IMPACTED THE TOP OF RISING TERRAIN (ELEVATION APRX 7000'). SOME 4 TO 5 HRS LTR, WHEN BOTH REGAINED
CONSCIOUSNESS, THE PAX ASKED THE PLT IF HE FELL ASLEEP. HIS RESPONSE INDCD TO HER THAT HE HAD. THE PLT DIED AT ABT 0900.
WX DELAYED A SEARCH. THE ACFT WAS FND IN LATE AFTERNOON AFTER THE ELT SIGNAL WAS RCVD BY SATELLITES & OVERFLYING ACFT.
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A/C Reg. No. N1887D Time (Lcl) - 0235 MDT File No. - 877 6/24/89 GLENROCK.WY

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation CRUISE

Finding(s)

- 1. LIGHT CONDITION NIGHT
- 2. WEATHER CONDITION CLOUDS
- 3. WEATHER CONDITION RAIN
- 4. TERRAIN CONDITION MOUNTAINOUS/HILLY
- 5. PROPER ALTITUDE NOT MAINTAINED PILOT IN COMMAND
- 6. FATIGUE(FLIGHT AND GROUND SCHEDULE) PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PROPER ALTITUDE NOT MAINTAINED BY THE PILOT. THE WEATHER/NIGHT CONDITIONS AND PILOT FATIGUE WERE CONSIDERED TO BE CONTRIBUTING FACTORS.

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