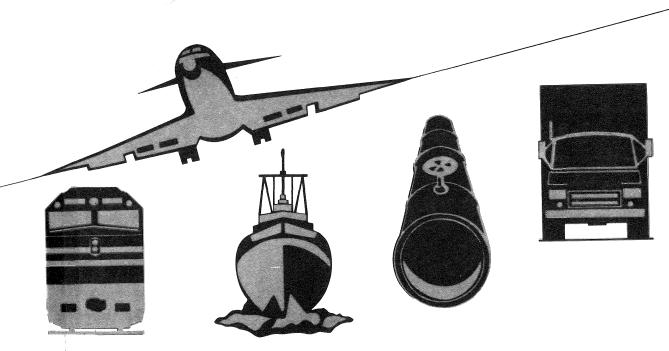
NATIONAL TRANSPORTATION SAFETY BOARD



WASHINGTON, D.C. 20594

AIRCRAFT ACCIDENT REPORTS

BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 3 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.

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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.

Aircraft Accidents

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.

Substantial Damage

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:

<u>Personal</u>

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.

<u>Instructional</u> 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 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 3

CALENDAR YEAR 1989

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403	80542	031689	PASCAGOULA, MS	CESSNA	172M	FATAL	270
404	5572W	031389	HOLLEY, FL	PIPER	PA-28-160	FATAL	176
405	1010Z	021089	SAINT GEORGE, UT	SWEARINGEN	SA226TC	NONE	378
406	180SR	061989	ANCHORAGE, AK	CESSNA	180	NONE	20
407	4912Z	061889	ALDER CREEK, AK	PIPER	PA-22-108	NONE	18
408	15306	062389	TUNTUTULIAK, AK	PIPER	PA-32-300	NONE	26
409	94252	030889	LINCOLN PARK, NU	CESSNA	152	NONE	296
410	4395N	031989	MOORE HAVEN, FL	CESSNA	195	NONE	178
411	73309	021289	SACRAMENTO, CA	CESSNA	172M	NONE	104
412	39752	032189	MARATHON, FL	WACO	UPF-7	NONE	182
413	2882F	031389	MIAMI, FL	CESSNA	402A	NONE	174
414	4971Q	061589	FORT BENTON, MT	CESSNA	A 188B	NONE	274
415	9007\$	020889	FLAGSTAFF, AZ	PIPER	PA-18	NONE	82
416	5726M	021389	SAN MARTIN, CA	MOONEY	M2OJ	NONE	106
417	7411N	030989	GOLDEN, CO	HILLER	UH-12E	NONE	148
418	36345	061689	LAS CRUCES, NM	PIPER	PA-34-200T	NONE	300
419	775CH	031089	TITUSVILLE, FL	NORTH AMERIC	T-28C	FATAL	172
420	7174L	011489	WESTLAKE, CA	GRUMMAN AMER	AA-1B	MINOR	98
421	544BM	062189	MORIARITY, NM	BEAUCHESNE/W	GLASAIR TD	NONE	302
422	8350V	030789	OCALA, FL	CHAMPION	7ECA	MINOR	168
423	28889	050289	SUMMERLAND KEY, FL	DOUGLAS	C-47	FATAL	194
424	8403N	012789	PARLIER, CA	BEECH	E33	NONE	102
425	1595Q	042689	NEW BERN, NC	CESSNA	150	NONE	282
426	5531N	050989	STAR, ID	DAVIS STARSH	ALPHA	SERIOUS	204
427	4948H	031289	OLIVE BRANCH, MS	CESSNA	152	NONE	268

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428	4235R	012789	GUALALA, CA	PIPER	PA-32-300	NONE	100
429	49PB	020489	HYANNIS, MA	CESSNA	402B	NONE	220
430	6822Q	060189	LISSIE, TX	GRUMMAN	G-164B	NONE	370
431	1722B	051989	EAST BERNARD, TX	BOEING	A75	MINOR	364
432	4766X	043089	HUDSON, NY	CESSNA	150G	NONE	312
433	51RM	031889	ERIE, CO	MILLER	S.A.L. 2/3	MINOR	150
434	3042Z	032789	LAMAR, CO	BEECH	F33A	NONE	154
435	11789	051489	WOODSTOCK, CT	CESSNA	150	NONE	166
436	94822	041089	BEDFORD, MA	CESSNA	152	NONE	222
438	1961P	062389	MIDDLETOWN, OH	PIPER	PA-18-150	MINOR	334
439	4756B	032889	BOULDER, CO	CESSNA	180	NONE	156
440	4734L	052889	CRANDON, WI	PIPER	PA-28-180	MINOR	392
441	3613U	030989	TOOELE, UT	CESSNA	182	NONE	380
442	5008Q	032389	LEADVILLE, CO	BELL	222	NONE	152
443	757 M Y	031889	PICKENS, SC	CESSNA	182Q	NONE	354
444	29HJ	043089	WATERTOWN, WI	TESMER GLASS	SH-2	NONE	388
445	6071K	033189	GARRISON, ND	CESSNA	150	NONE	290
446	43YP	061789	SHELBYVILLE, IN	BOEING	E75	NONE	212
447	13630	052789	INDIAN TRAIL, NC	CESSNA	177	SERIOUS	286
448	7523K	040589	DEVILS LAKE, ND	PIPER	PA-18	NONE	292
449	739US	021789	WILMINGTON, OH	CESSNA	172	MINOR	322
450	4898G	041289	XENIA, OH	CESSNA	172	NONE	332
451	1434Y	062089	FRANKLIN, GA	CESSNA	172	MINOR	196
452	8032A	021889	CLEVELAND, TN	CESSNA	170B	NONE	360
453	784K	010789	PADUCAH, KY	BEECH	B-90	SERIOUS	216

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455	1769	060389	TOWNSVILLE, NC	BLOODWORTH	PITTS SPEC	FATAL	288
456	4724R	062389	GRYGLA, MN	CESSNA	188B	NONE	250
457	6513Y	062189	BEMIDJI, MN	PIPER	PA-23-250	NONE	246
458	8272W	041489	MILBANK, SD	PIPER	PA-28-180	NONE	358
459	77BR	032289	JACKSONVILLE, FL	PIPER	AEROSTAR 6	FATAL	184
460	7450Z	053189	SCANDIA, KS	PIPER	PA-25-235	NONE	214
461	83GB	061189	STANTON, MN	GLASER-DIRKS	DG-101	NONE	244
462	7385Y	070189	TELLURIDE, CO	CESSNA	R182	MINOR	162
463	38145	062289	SAUK RAPIDS, MN	CESSNA	172	NONE	248
464	9330B	011189	MADISON, NC	CESSNA	208B	SERIOUS	278
465	1480F	032189	MELBOURNE, FL	CESSNA	172H	SERIOUS	180
466	6852Q	030989	DAYTONA BEACH, FL	BEECH	\$35	FATAL	170
467	373TC	060489	CEDAR RAPIDS, IA	OLSON	BD-4	SERIOUS	198
468	38329	060489	BUFFALO, MN	PIPER	PA-38	NONE	242
469	8063K	060789	WYNNE, AR	GULFSTREAM-S	G-164B	MINOR	76
470	3952K	060389	BOLIVAR, MO	PIPER	PA-28	NONE	256
471	29309	060689	CREVE COEUR, MO	WACO	UPF-7	NONE	258
472	34306	021189	ONEONTA, AL	CESSNA	177B	NONE	62
473	63535	060689	PINE BLUFF, AR	CESSNA	172	NONE	74
474	32062	071589	QUINHAGAK, AK	PIPER	PA-32-300	NONE	46
475	5056Q	021089	FAIRBANKS, AK	DEHAVILLAND	DHC-3	NONE	4
476	2747X	050989	TOGIAK, AK	CESSNA	180H	NONE	6
477	9360N	053189	TOKSOOK BAY, AK	CESSNA	185F	NONE	10
478	6366N	072389	ALEXANDER CREEK, AK	CHAMPION	7GCBC	NONE	48

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479	8510L	021989	WAYNESVILLE, OH	PIPER	PA-25-235	NONE	324
480	1113E	070289	EVANSTON, WY	STITTS	SA7D	NONE	394
481	9038T	072089	WESTON, CO	CESSNA	182C	MINOR	164
482	8562X	040889	CRESTED BUTTE, CO	CESSNA	P172D	MINOR	158
483	6588Z	072689	ILIAMNA, AK	CESSNA	206G	MINOR	52
484	6662M	040889	LIVERMORE, CA	STINSON	108-3	NONE	122
485	248ER	040589	PRESCOTT, AZ	CESSNA	172N	NONE	88
486	3508Z	040189	LANCASTER, CA	PIPER	PA-22	NONE	120
487	756EA	020989	FAIRBANKS, AK	CESSNA	U206G	FATAL	2
488	95418	071389	KING SALMON, AK	CHAMPION	7ECA	MINOR	40
489	27024	071389	PARKER LAKE, AK	PIPER	J-3	NONE	42
490	4104D	062789	KING SALMON, AK	HEĹIO	H800	NONE	34
491	6305E	063089	DILLINGHAM, AK	CESSNA	185F	NONE	36
492	5745W	071389	NAKNEK, AK	PIPER	PA-28	NONE	38
493	6908D	061689	KENAI, AK	PIPER	PA-22	FATAL	14
494	9926B	061989	TYONEK, AK	CESSNA	182A	NONE	24
495	7847U	040989	MORGAN, UT	CESSNA	172F	NONE	382
496	9858D	050389	BOZEMAN, MT	PIPER	PA-18-150	MINOR	272
497	6318K	070789	BOUNTIFUL, UT	CESSNA	150M	SERIOUS	384
498	49925	031989	SAN JOSE, CA	CESSNA	152	MINOR	116
499	. 2377Y	022689	YUBA CITY, CA	CESSNA	177	NONE	108
500	2802J	070789	FORT BENTON, MT	CESSNA	T188C	NONE	276
501	4831N	070489	NEWCASTLE, WY	HENRY VICKER	HCV-110	MINOR	396
502	6754Q	070889	HOLDEN, UT	GRUMMAN/SCHW	G-164B	NONE	386
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504	42859	030489	UPLAND, CA	CESSNA	182L	NONE	110
505	4899B	030989	LONG BEACH, CA	CESSNA	310	NONE	112
506	8419W	062089	BROOMFIELD, CO	PIPER	PA28~180	MINOR	160
507	70289	032589	LUGOFF, SC	UPCHURCH	ROTORWAY E	NONE	356
508	2805S	022889	SPRINGBORO, OH	CESSNA	150G	NONE	328
509	13188	031189	SANFORD, NC	CESSNA	172M	NONE	280
510	25524	030489	BLOUNTVILLE, TN	CESSNA	152	MINOR	362
511	1139X	022189	TIPP CITY, OH	PIPER	PA-28R-200	SERIOUS	326
512	3627G	070489	WILLOWS, CA	SCHWEIZER	G-164B	NONE	138
513	6938H	070989	CRYSTAL, MN	CESSNA	172	NONE	252
514	7739R	042289	HOT SPRINGS, AR	BEECH	BE-55	NONE	68
515	88RA	050989	REGINA, NM	ENSTROM	F-28C	NONE	298
516	599WB	040889	REDDINGTON BCH., FL	BEECH	F-33A	NONE	188
517	81VA	032989	PONTE VEDRA BCH, FL	LEE, DAVID	VELOCITY	NONE	186
518	701AS	071889	DES MOINES, IA	GATES	LEARJET 35	MINOR	202
519	4968X	031789	HETH, AR	ROCKWELL INT	S2R T34	NONE	66
520	4607C	050889	MONTROSE, AR	WEATHERLY	620TP	NONE	70
521	18307	052789	STRONG, AR	BEECH	V35	NONE	72
522	2892A	071489	CAMDENTON, MO	PIPER	PA-32-300	NONE	266
523	80440	040989	WEST PALM BEACH, FL	CESSNA	172M	NONE	190
524	1DQ	021989	GLEN FALLS, NY	BEECH	A36	FATAL	308
524	232C	021989	GLEN FALLS, NY	STINSON	108-2	FATAL	310
525	7298N	041589	TAVERNIER, FL	CESSNA	182P	NONE	192
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529	2990P	041489	YAMHILL, OR	CONSOLIDATED	LA-4	NONE	342
530	23972	040189	TUCSON, AZ	BEECH	C24R	NONE	86
531	4374T	032489	LAKE ELSINORE, CA	PIPER	PA-34-200	MINOR	118
532	767AA	021989	TUCSON, AZ	AEROSTAR	RAVEN 560	SERIOUS	84
533	1057X	011489	TURNERS FALLS, MA	PIPER	PA-28-180	NONE	218
534	2127J	042389	DUSHORE, PA	PIPER	PA-28-161	NONE	344
535	3420Y	061389	PITTSBURGH, PA	CESSNA	180	NONE	348
536	6556A	011489	NEWPORT, RI	CESSNA	T210	MINOR	352
537	17109	012989	SENECA FALLS, NY	CESSNA	150L	NONE	304
537	12679	012989	SENECA FALLS, NY	CESSNA	172	NONE	306
538	52HR	061889	NIAGARA FALLS, NY	CESSNA	172N	MINOR	314
539	2752M	070989	BEVERLY, MA	PIPER	PA-28-161	MINOR	226
540	1731R	070289	FISHERS, NY	CESSNA	185	NONE	318
541	4953B	070289	ONEIDA, NY	CESSNA	152	NONE	320
542	91867	072389	EIGHTY FOUR, PA	SCHWEIZER	1-23	SERIOUS	350
543	6010G	022289	PEMBERTON, MN	CESSNA	150K	FATAL	240
544	9965D	060389	UXBRIDGE, MA	PIPER	PA22-150	MINOR	224
545	52010	060489	GLENNALLEN, AK	CESSNA	180-J	NONE	12
546	9949N	052289	ANCHORAGE, AK	CESSNA	180J	NONE	8
547	6370H	081189	TANANA, AK	CESSNA	207-A	SERIOUS	56
548	1118D	080989	SPARREVOHN, AK	CESSNA	140	NONE	54
549	5354G	071389	KODIAK, AK	DE HAVILLAND	DHC-2	SERIOUS	44
550	37209	062789	ILIAMNA, AK	INTERSTATE	S-1A	NONE	32
551	5087Y	061889	RAINBOW LAKE, AK	PIPER	PA-18	NONE	16

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555	5595 M	062489	ILIAMNA, AK	DE HAVILLAND	DHC-2	SERIOUS	28
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557	3669N	081489	RAINY PASS, AK	PIPER	PA-12	NONE	58
558	8116K	072889	PORTLAND, AR	GRUMMAN	G-164B	NONE	80
559	757EJ	070489	TUNAS, MO	CESSNA	152	MINOR	264
560	49554	070389	ST. CHARLES, MO	CESSNA	152	NONE	262
561	6629Q	070289	STOCKVILLE, NE	GRUMMAN	G-164B	NONE	294
562	97984	072389	DULUTH, MN	CESSNA	172	NONE -	254
563	1066	071089	PERRY, IA	BRISTOW	KR-2	MINOR	200
564	9440T	062589	KAISER, MO	CESSNA	210	NONE	260
565	3653 M	062889	LONOKE, AR	AIR TRACTOR	301	NONE	78
566	19950	062689	WADSWORTH, OH	CESSNA	C172M	NONE	336
567	32340	051189	TECUMSEH, MI	PORTERFIELD	CP-55	NONE	232
568	8535Q	060189	FLUSHING, MI	CESSNA	206	NONE	236
569	4526Z	052789	NECEDAH, WI	PIPER	PA-22-108	SERIOUS	390
570	7531G	051689	EUREKA, MI	CESSNA	150 L	NONE	234
571	77201	051289	TERRE HAUTE, IN	CESSNA	140	NONE	210
572	455RT	042389	LANSING, MI	WACO	YMF	NONE	228
573	444EA	042589	DETROIT, MI	CESSNA	411	NONE	230
574	21170	071489	ALPINE, WY	PIPER	PA-28-161	NONE	398
575	23414	071389	GRANITE, OK	PIPER	PA-38-112	NONE	340
576	601 M F	062689	CLEVELAND, TX	PIPER	PA-601B	MINOR	374

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581	24258	061189	KAUFMAN, TX	CESSNA	152	NONE	372
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588	761JA	071789	CHANDLER, AZ	CESSNA	T210	MINOR	96
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591	29339	061789	BANNING, <u>C</u> A	CESSNA	177	MINOR	132
592	24521	052689	CONCORD, CA	CESSNA	152	MINOR	130
593	23916	070989	HOLLISTER, CA	PIPER	PA-38-112	NONE	140
594	5712E	070189	KELSEYVILLE, CA	CESSNA	150	NONE	136
595	6084P	061789	FALLBROOK, CA	CESSNA	182P	NONE	134
596	5368V	051289	UPLAND, CA	CESSNA	T210L	SERIOUS	126
597	76675	051989	PLACERVILLE, CA	CESSNA	140	NONE	128
598	7580D	022589	JACKSONVILLE, AR	PIPER	PA-18	FATAL	64
599	128MP	031589	WEST LAFAYETTE, IN	NIHON	YS-11A-600	FATAL	208
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AIRCRAFT ACCIDENT REPORTS BRIEF FORMAT U.S. CIVIL AND FOREIGN AVIATION ISSUE NUMBER 3 OF 1989 ACCIDENTS

File No 487 2/09/89 FAIR	BANKS,AK A/C	Reg. No. N756EA	7	ime (Lc1)	- 0905 AST	
Basic Information Type Operating Certificate-COMMUTER		ft Damage		Inju	ries	
Name of Carrier -ARCTIC CIRC	LE AIR SERVICE DESTR	OYED	Fatal	Serious	Minor	None
Type of Operation -NON SCHED, D		Cre		0	0	0
Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	NONE	Pas	s 0	0	0	0
Aircraft Information	5 11 1 /11 1 3	0.1771/51/71/ 70 500		/		V=0 (VI
Make/Model - CESSNA U206G Landing Gear - TRICYCLE-FIXED	Eng Make/Model - C Number Engines -			Installed/ l Warning		
Max Gross Wt - 3600	Engine Type - R			i warning	system - r	E 2
No. of Seats - 6	Rated Power -					
Environment/Operations Information						
Weather Data	Itinerary			Proximity	_	
Wx Briefing - NO RECORD OF BRIEFIN	·	t	OFF Al	RPORT/STRI	P	
Method - N/A	FAIRBANKS, AK		A			
Completeness - N/A Basic Weather - VMC	Destination FORT YUKON,AK		Airport [ата		
Wind Dir/Speed- 180/005 KTS	TORT TORON, AR		Punway	Ident	- N/A	
Visibility - 90.0 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - 6000 FT	Type of Flight Plan	- COMPANY (VFR)		Surface	•	
Lowest Ceiling - 6000 FT BRC				Status		
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 27	Medical Certific	ate - VALID	MEDICAL-N	O WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ght Time (F		- ,	
COMMERCIAL, CFI	Current - YES	Total -	2500		4 Hrs -	5
SE LAND, ME LAND, SE SEA	Months Since - 4	•	600	Last 3	•	45
	Aircraft Type - U2060	Instrument- Multi-Eng -		Last 9	O Days-	193
Instrument Rating(s) - AIRPLANE						
Narrative			==-			
RING FLIGHT, THE PILOT REPORTED AN ENGINE						
PINE TREES. AN EXAM OF THE ENGINE REVEALE ANKSHAFT BOSS. THERE WAS EVIDENCE THAT THI						
ANN STALL DUSS. THEKE WAS EVIDENCE THAT THI	S KESOFIED IN MASSIVE INIEK	NAL ENGINE DAMAGE	x a substill	LINI LUSS U	PUWEK.	

File No 4	87 2/09/89 FAIRBANKS,AK	A/C Reg. No. N756EA	Time (Lc1) - 0905 AST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(TOTAL) - MECH FAI CRUISE - NORMAL	[LURE/MALF	
Finding(s) 1. ENG ASSEMBLY,CR	ANKSHAFT COUNTERWEIGHTS/VIB DAMPER - SE	PARATION	
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
	IN FLIGHT COLLISION WITH OBJECT LANDING - FLARE/TOUCHDOWN		
Finding(s) 2. OBJECT - TREE(S) 		
	IN FLIGHT COLLISION WITH TERRAIN/WATER DESCENT - UNCONTROLLED		
Probable Cause			
	rtation Safety Board determines that the RSIONAL VIBRATION DAMPERS FROM THE CRANK		ent was:

PAGE 3

File No 475 2/10/89 FAIRE	BANKS, AK	A/C R	eg. No. N50560	Q	Т	ime (Lcl)) - 0945 A	AST
Basic Information Type Operating Certificate-ON-DEMAND AI Name of Carrier -40 MILE AIR, Type of Operation -NON SCHED,DO Flight Conducted Under -14 CFR 135 Accident Occurred During -TAKEOFF		Aircraf SUBSTAI Fire NONE	t Damage NTIAL	Crew Pass	Fatal O O	Inj Serious O O	juries s Minor O O	
Aircraft Information Make/Model - DEHAVILLAND DHC-3 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 8000 No. of Seats - 1	Eng Make/ Number Er Engine Ty Rated Pow	ngines - 1 pe - REG	N R-1340-59 CIPROCATING-CA		TOR S	tall Warr	ning Syste	ed - YES/NO em - YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 360/005 KTS Visibility - 90.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	FAIRBANK Destination EAGLE,AK ATC/Airspace Type of Fl Type of Cl		- COMPANY (VFF - NONE		ON AIR Airport D FAIRBA Runway Runway Runway	ata NKS Ident Lth/Wid	- 01 - 10300/ - ASPHAL	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND,SE SEA	Age - 41 Biennial Flight Current Months Since Aircraft Typ	Review - YES e - 5	Total Make/Mode	Fligh - el- nt-	t Time (H 9153 600 913	ours) Last Last	NO WAIVER 24 Hrs - 30 Days- 90 Days-	8 53
Instrument Rating(s) - AIRPLANE								
THE PLT RPRTD THAT BEFORE THE FLT, THE WINGS WAS LOADED & THE ACFT WAS SERVICED TO BRING THIS TAKEOFF FROM THE APPROACH END OF THE 10,3 THE POWER (TO 30' MP & 2000 RPM) & RAISED THE ACCELERATE IN LEVEL FLT. THE PLT INCREASED THOF POWER. SUBSEQUENTLY, THE ACFT WAS DAMAGED OF THE RWY. NO PRE-ACDNT PART FAILURE OR MALF COVERED WITH A COATING OF FROST. COMPANY RECOEMPTY WEIGHT WAS 5285 LBS. AN FAA INSPECTOR OF	& STABILIZER WERE THE FUEL LEVEL UP TOO FT RWY (WITH 3 TELAPS TO CLIMB A TELEPOWER (TO 31" N WHEN THE PLT ABOR TUNCTION OF THE ACT TOO SHOWED THE EN	SWEPT, LEA TO 120 GAL 5" MP & 229 T 82 KTS. H IP & 2100 RI TED THE TAK FT OR ENG N IPTY WEIGHT	AVING A LAYER AFTER START, ORPM). AT AB HOWEVER, THE AP PM), BUT HE BB KEDFF ON SNOW VAS FOUND. AN OF THE ACFT V	OF "P, TAXI BOUT 1 ACFT D ELIEVE COVER INV R	OLISHED" & RUN-UP OO FT AGL ID NOT CL D THERE W ED TERRAI EVEALED T 88 LBS; T	, THE PLT , HE ADJU IMB & WOL AS A DEFI N BEYOND HE ENTIRE HE ACFT'S	BEGAN JSTED JLD NOT INITE LOSS THE END E ACFT WAS	5

File No. - 475 2/10/89 FAIRBANKS, AK

A/C Reg. No. N5056Q

Time (Lcl) - 0945 AST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. ICE/FROST REMOVAL FROM AIRCRAFT NOT PERFORMED PILOT IN COMMAND
- 2. AIRCRAFT WEIGHT AND BALANCE IMPROPER COMPANY/OPERATOR MGMT
- 3. ABORTED TAKEOFF
- 4. TERRAIN CONDITION SNOW COVERED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO REMOVE FROST FROM THE AIRCRAFT. CONTRIBUTING FACTORS WERE: IMPROPER WEIGHT AND BALANCE AND SNOW COVERED TERRAIN.

Type Operating Certificate-NONE (GENERAL		t Damage		Injur		
Turns of Organition DEDCOMAL	SUBSTA		Fatal O	-	Minor O	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass	0	0	0	1
Accident Occurred During -LANDING	NONE	7 433	Ü	· ·	~ ,	
Aircraft Information	5 4 / /4 . 3 00	NTTNENTN 0 450 B		T		VEC /
Make/Model - CESSNA 180H Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - CO Number Engines - 1			Installed/A tall Warnin		
Max Gross Wt - 2800		CIPROCATING-CARBURE		tali walilii	ig system	163
No. of Seats - 6	Rated Power -	235 HP				
Environment/Operations Information				_		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Point			Proximity RPORT/STRIP		
Method - N/A	DILLINGHAM, AK		UFF AI	KPUKI/SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		•			
Wind Dir/Speed- 360/010 KTS					N/A	
Visibility - 20.0 SM	ATC/Airspace	NONE	,	Lth/Wid -	-	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan Type of Clearance			Surface - Status -		
Obstructions to Vision- NONE	Type Apch/Lndg		Kuriway	Status	14/ A	
Precipitation - NONE	3,12 - 3,12 - 7 - 3, 3					
Condition of Light - DUSK						
Personnel Information Pilot-In-Command	Age - 54	Medical Certificat	e - VALID	MEDICAL-WA	TVEDS/LIM	ĨΤ
Certificate(s)/Rating(s)	Biennial Flight Review	Fliah	t Time (H	ours)	•	- '
PRIVATE	Current - YES	Total - Make/Model- Instrument- UN	3500	Last 24	Hrs -	1
SE LAND, SE SEA	Months Since - 2	Make/Model-	1400	Last 30	Days-	20
	Aircraft Type - F-19	Instrument- UN	IK/NR	Last 90	Days-	50
		Multi-Eng - UN	IK/NR	ROTORCE	aft - UN	K/NR
Instrument Rating(s) - NONE						
Narrative						
E LANDING ON A BEACH IN POOR LIGHTING CON	DITIONS, THE PILOT FAILED T	O SEE A 55-GALLON [RUM IN TI	ME TO AVOID	1	
ING IT. HE HAD INTENTIONALLY LANDED SLIGH	TLY RIGHT OF THE USUAL LAND	ING AREA TO AVOID O	LOSE PROX	IMITY WITH		

File No. - 476 5/09/89 TOGIAK, AK

A/C Reg. No. N2747X Time (Lc1) - 2315 ADT

Occurrence #1 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

1. UNSAFE/HAZARDOUS CONDITION

- 2. LIGHT CONDITION DUSK
- 3. PLANNING-DECISION IMPROPER 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 PILOT. CONTRIBUTING FACTORS WERE: LIGHT CONDITIONS AT DUSK, AN UNSAFE/HAZARDOUS CONDITION (DRUM THAT SOMEONE HAD LEFT NEAR THE LANDING AREA).

File No 546 5/22/89 ANCH	DRAGE, AK	/C Reg. No. N9949N	ד	ime (Lc1) -	1553 ADT	
Type Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	SL Fir		Fatal rew O uss O	Injur Serious O O	ies Minor O O	None 1 3
Aircraft Information Make/Model - CESSNA 180J Landing Gear - FLOAT Max Gross Wt - 2950 No. of Seats - 4	Number Engines	- CONTINENTAL O-470F - 1 - RECIPROCATING-CARE - 230 HP	9	Installed/Ad 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- 260/009 KTS Visibility - 90.0 SM Lowest Sky/Clouds - 4500 FT SCA Lowest Ceiling - 6500 FT BRO Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/IN Destination LOCAL ATC/Airspace ITERED Type of Flight F	Plan - NONE ce - NONE	OFF AI Airport [SAND l Runway Runway Runway	.AKE	WATER	LM
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Age - 29 Biennial Flight Review Current - YE Months Since - 12 Aircraft Type - PA	ES Total - Make/Model-	ight Time (F 4423 270 837	Hours)	Hrs - UN	K/NR
TISTIMENT RATING(S) - AIRPLANDNarrative HE AIRLINE TRANSPORT CERTIFICATED PILOT WAS LOAT EQUIPPED CESSNA 180 AIRPLANE. THE PILO ECOND ATTEMPT WAS SUCCESSFUL, BUT HE BECAME HORE LINE, NARROWLY MISSING TWO HOUSES. THE EAPLANE OPERATIONS PRIOR TO THE ACCIDENT FL AW WHAT HE DESCRIBED AS OBVIOUSLY POOR TECH	T WAS UNABLE TO BECOME A AIRBORNE LATE IN THE TA PILOT WAS NOT RATED FOR IGHT. A LOCAL PILOT/WITM	AIRBORNE ON THE FIRST AKE OFF RUN AND COLLI R, AND HAD TAKEN NO F	TAKE OFF AT DED WITH TRE ORMAL INSTRU	TTEMPT. HIS EES ON THE UCTION IN,		

File No. - 546 5/22/89 ANCHORAGE, AK A/C Reg. No. N9949N Time (Lcl) - 1553 ADT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

- 1. JUDGEMENT POOR PILOT IN COMMAND
- 2. INADEQUATE INITIAL TRAINING PILOT IN COMMAND
- 3. PREFLIGHT PLANNING/PREPARATION IMPROPER PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND
- 5. PERFORMANCE DATA NOT UNDERSTOOD PILOT IN COMMAND
- 6. OVER CONFIDENCE IN PERSONAL ABILITY PILOT IN COMMAND
 - OVER CONFIDENCE IN AIRCRAFT'S ABILITY PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S POOR JUDGEMENT, AND HIS LACK OF INITIAL TRAINING (NONE) IN SEAPLANE OPERATIONS.

 -Basic Information Type Operating Certificate Name of Carrier Type of Operation Flight Conducted Under 	-COMMUTER -HARBOR AIR	A DASSENCED E	ircraft Damage SUBSTANTIAL	Cnow	Fatal	Injur Serious		None 1
Flight Conducted Under Accident Occurred During	-LANDING	C,PASSENGER F						1
-Aircraft Information Make/Model - CESSNA 185 Landing Gear - AMPHIBIAN Max Gross Wt - 3350 No. of Seats - 4		Number Engine Engine Type	1 - CONTINENT s - 1 - RECIP-FUEI - 300 HP		ELT I St	nstalled/A		
-Environment/Operations Infor Weather Data		Itinerary			Airport P	roximity		
Wx Briefing - UNK/NR Method - UNK/NR Completeness - WEATHER		Last Departure SAME AS ACC/ Destination			OFF AIR	PORT/STRIP		
Basic Weather - VMC		LOCAL			·			
Wind Dir/Speed- 360/005 Visibility - 15.0 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision- Precipitation - Condition of Light -	SM N/A 3000 FT OVERCAST NONE NONE	Type of Flight	nce - NONE		Runway Runway	Ident - Lth/Wid - Surface - Status -	N/A N/A	
-Personnel Information Pilot-In-Command	Age	- 30	Medica	l Certificat	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Bien	- 30 nial Flight Revi	ew	Fligh	nt Time (Ho	urs)		
COMMERCIAL SE LAND,SE SEA		Current - Months Since - Aircraft Type -	6 Mal C-172 In:	tal - ke/Model- strument-	400 44	Last 24 Last 30 Last 90	Hrs - Days- Days-	5 120 300
Instrument Rating(s)	- AIRPLANE	g.						
-Narrative AMPHIBIOUS FLOAT PLANE NOSED PASSENGER SAID ALL FOUR WHEE ELS WERE IN THE DOWN POSITION POSITION.	OVER IMMEDIATELY	AFTER LANDING ON THE ACFT TOUCHED	DOWN. WHEN TH	HE ACFT WAS	PULLED FRO	M THE WATE	R, ALL	

File No. - 477 5/31/89 TOKSOOK BAY,AK A/C Reg. No. N9360N Time (Lc1) - 2115 ADT

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

Finding(s)

1. WHEELS DOWN LANDING IN WATER - INADVERTENT - PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation LANDING

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT INADVERTENTLY LANDED ON WATER WITH THE GEAR EXTENDED.

----Probable Cause----

File No 545 6/04/89 GLENI	NALLEN, AK	A/C Reg. No. N52010			Time (Lcl) - 1650 ADT				
Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious	ies 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 -DESCENT				ŭ	•	· ·	2		
Aircraft Information									
Make/Model - CESSNA 180-J	Eng Make/Mo	del - CONTINENTAL	. 0-470-R	ELT	Installed/A	ctivated	- YES/YE		
Landing Gear - FLOAT	Number Engi				tall Warnin	g System	- YES		
Max Gross Wt - 2800		- RECIPROCATI	NG-CARBURETO)R					
No. of Seats - 4	Rated Power	- 230 HP							
Environment/Operations Information									
Weather Data	Itinerary		,		Proximity				
Wx Briefing - NO RECORD OF BRIEFING	•			ON AIR	PORT				
Method - N/A	SAME AS AC	C/INC							
Completeness - N/A	Destination		Α	irport D					
Basic Weather - VMC	EAGLE RIVE	R,AK		LAKE L					
Wind Dir/Speed- 060/012 KTS					Ident -				
Visibility - 60.0 SM Lowest Sky/Clouds - 8000 FT	ATC/Airspace				Lth/Wid -		400		
Lowest Sky/Clouds - 8000 FT	Type of Flig	ht Plan - NONE			Surface -				
Lowest Ceiling - 8000 FT BRO				Runway	Status -	WATER -	CHOPPY		
Obstructions to Vision- NONE	Type Apch/Ln	dg - NONE							
Precipitation - NONE									
Condition of Light - DAYLIGHT									
Personnel Information	9 								
Pilot-In-Command	Age - 51		Certificate			WAIVERS	/LIMIT		
Certificate(s)/Rating(s)	Biennial Flight Re		Flight						
PRIVATE	Current		1 - 1	350	Last 24	Hrs - U	NK/NR		
SE LAND, ME LAND	Months Since Aircraft Type	- 12 Make	e/Model- 1: rument- UNK,	200	Last 30	Days- U	NK/NR		
	Aircraft Type	- C-180 Inst	rument- UNK,	NR .	Last 90				
	* .	Mult	:i-Eng - UNK,	NR	Rotorcr	aft - U	NK/NR		
Instrument Rating(s) - NONE									
Instrument Rating(s) - NONE									
	·								
						 F			
	DWARD RISING TERRAIN	, WITH STRONG GUS	STY WINDS. H	HAD AB	OUT ONE MIL	 E			
	DWARD RISING TERRAIN JT 60 FEET ABOVE THE	, WITH STRONG GUS WATER APPROACHIN	STY WINDS. HI	HAD AB	OUT ONE MIL E PILOT				
	DWARD RISING TERRAIN JT 60 FEET ABOVE THE	, WITH STRONG GUS WATER APPROACHIN	STY WINDS. HI	HAD AB	OUT ONE MIL E PILOT				

A/C Reg. No. N52010 6/04/89 GLENNALLEN, AK Time (Lcl) - 1650 ADT File No. - 545 Occurrence #1 ALTITUDE DEVIATION, UNCONTROLLED Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. TERRAIN CONDITION - RISING ALL AVAILABLE RUNWAY - NOT USED - PILOT IN COMMAND 3. WEATHER CONDITION - GUSTS 4. COMPENSATION FOR WIND CONDITIONS - POOR - PILOT IN COMMAND 5. WEATHER CONDITION - HIGH WIND 6. JUDGEMENT - POOR - PILOT IN COMMAND 7. WEATHER CONDITION - DOWNDRAFT 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: PILOT USED POOR JUDGEMENT AND PLANNING FOR HIS TAKEOFF.

----Probable Cause----

File No 493 6/16/89 KENAI	, AK A/C R	eg. No. N6908D	ד	Time (Lcl) - 1300 ADT				
-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf	t Damage		Injur				
	SUBSTA	NTIAL	Fatal	Serious	Minor	None		
Type of Operation -PERSONAL	Fire		ew 1	0	0	0		
Flight Conducted Under -14 CFR 91	NONE	Pa	ss 3	0	0	0		
Accident Occurred During -LANDING								
-Aircraft Information								
Make/Model - PIPER PA-22	Eng Make/Model - LY			Installed/A				
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warnir	ıg System	- YES		
Max Gross Wt - 1850	Engine Type - RE		URETOR					
No. of Seats - 4	Rated Power -	150 HP						
-Environment/Operations Information								
Weather Data	Itinerary			Proximity				
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		OFF AI	RPORT/STRIP				
Method - N/A	PORT ALSWORTH,AK							
Completeness - N/A	Destination		Airport D	ata				
Basic Weather - VMC	SOLDOTNA, AK							
Wind Dir/Speed- CALM			Runway	Ident -	N/A			
Visibility - 30.0 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	- FORCED LANDING						
Precipitation - NONE								
Condition of Light - DAYLIGHT								
-Personnel Information								
Pilot-In-Command	Age - 49	Medical Certifi			WAIVERS/	LIMIT		
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review Current - UNK/NR	Fl	ight Time (F	lours)				
PRIVATE		Total -	2350	Last 24	Hrs - UN	K/NR		
SE LAND	Months Since - UNK/NR	Make/Model-	UNK/NR	Last 30	Days- UN	K/NR		
	Aircraft Type - UNK/NR	Instrument-	UNK/NR	Last 90	Days- UN	K/NR		
		Multi-Eng -	UNK/NR UNK/NR	Rotorcr	aft - UN	K/NR		
Instrument Rating(s) - NONE								
FLT, THE PLT RPRTD THE ACFT WAS LOW ON FU	EL HE INDICATED HE WAS COT	NG TO DITCH THE	ACET IN COOK	TNIET ARC	ILIT			
MILE OFF SHORE, NEAR "WEST FORELANDS." N								
UT WERE FOUND IN THE WATER NEAR CAPE NINIL					u.			
			UE IDE AUEL.					

File No 4	93 6/16/89	KENAI,AK	A/C Reg. M	No. N6908D	Time (Lc1) - 1300 ADT
Occurrence #1 Phase of Operation		POWER(TOTAL) - NO	N-MECHANICAL		
Finding(s) 1. FLUID,FUEL - EX 2. PREFLIGHT PLA		- INADEQUATE - F	ILOT IN COMMAND		
Occurrence #2 Phase of Operation		ENCY			
Occurrence #3 Phase of Operation	DITCHING LANDING				
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE PILOT AND FUEL EXHAUSTION.

-Basic Information Type Operating Certificate-NONE (GENE)	DAL AVTATION)	Aircraft Damage		Inju	uries	
Type operating continued work (dent	VAL AVIATION)	SUBSTANTIAL	Fata			None
Type of Operation -PERSONAL		Fire		0		1
Flight Conducted Under -14 CFR 91		NONE	Pass 0	0	0	1
Accident Occurred During -DESCENT						
-Aircraft Information						
Make/Model - PIPER PA-18	Eng Make	/Model - LYCOMING O-				
Landing Gear - TAILWHEEL-ALL FIXED		ngines - 1		Stall Warn	ing System	- NO
Max Gross Wt - 1750		ype - RECIPROCATI	NG-CARBURETOR			
No. of Seats - 2	Rated Po	wer - 150 HP				
-Environment/Operations Information						
Weather Data	Itinerary			rt Proximity		
Wx Briefing - FSS Method - TELEPHONE	Last Depa		OFF	AIRPORT/STR	[P	
	SAME AS Destinatio	•	A + n = n =	+ Do+o		
Completeness - UNK/NR Basic Weather - VMC	LOCAL	11	Airpor	t Data		
Wind Dir/Speed- 310/010 KTS	LUCAL		Pun	way Ident	- N/A	
Visibility - 40.0 SM	ATC/Airspac	e		way Lth/Wid		
Lowest Sky/Clouds - 3000 FT SC				way Surface		
	Type of C			way Status		
	Type Apch			•		
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information					,	
Pilot-In-Command Certificate(s)/Rating(s)	Age - 45 Biennial Flight	Medical	Certificate - VA Flight Time		WAIVĒRS/LIM	IT
PRIVATE	Current	- YES Tota	1 - UNK/NR		04 Hrs - IIN	k/NR
SE LAND	Months Sinc	e - 5 Make	/Model- 400	Last 3	30 Davs- UN	K/NR
<u> </u>	Aircraft Tv	e - 5 Make pe - PA-18 Inst	rument- UNK/NR	Last 9	90 Days- UN	K/NR
	•	Mult	/Model- 400 rument- UNK/NR i-Eng - UNK/NR	Rotord	craft - UN	K/NR
Instrument Rating(s) - NONE						
-Narrative	FUDALITADO F.D.OM A	AL ETCLITMO TOTO ASS	IAD HIGT TAKEN S	EE EDOM 1 6::	·ID	
PRIVATE PILOT AND HIS PASSENGER WERE RE			HAD JUST TAKEN O THE "WIND STALL		ND	

File No 5	51 6/18/89 	RAINBOW LAKE, AK	A/C Reg. No. N5087Y	Time (Lcl) - 1700 ADT	
Occurrence #1 Phase of Operation	LOSS OF CONTROL TAKEOFF - INITIA	– –			
Finding(s) 1. AIRSPEED(VS) - 2. STALL - INADVER					
Occurrence #2 Phase of Operation	IN FLIGHT COLLIS DESCENT - UNCONT	ION WITH TERRAIN/WATER ROLLED			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT IN COMMAND'S FAILURE TO MAINTAIN AN AIRSPEED (ANGLE OF ATTACK) THAT WOULD PRECLUDE A STALL.

Type Operation Type of Operation -PERS Flight Conducted Under -14 C Accident Occurred During -TAKE	SUBS ONAL Fire FR 91 NONE	aft Damage FANTIAL Crew Pass	Injurio Fatal Serious O O O O	es Minor None O 1 O 1
Flight Conducted Under -14 C Accident Occurred During -TAKE	DNAL Fire FR 91 NONE	Crew	0 0	0 1
Aircraft Information				
Make/Model - PIPER PA-22-108 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1650 No. of Seats - 4	Number Engines -	1 RECIPROCATING-CARBURET	ELT Installed/Ac Stall Warning OR	
-Environment/Operations Informatio Weather Data Wx Briefing - NO RECORD OF Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLI	Itinerary Last Departure Poir SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	nt n - NONE - NONE	Airport Proximity ON AIRSTRIP irport Data ALDER CREEK Runway Ident - Runway Lth/Wid - Runway Surface - Runway Status -	950/ 150 GRASS/TURF
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NON	Age - 54 Biennial Flight Review Current - YES Months Since - 22 Aircraft Type - PA-22	Flight Total - 2 Make/Model- UNk	/NR Last 30 /NR Last 90	Hrs - UNK/NR Days- UNK/NR

File No. - 407 6/18/89 ALDER CREEK, AK A/C Reg. No. N4912Z Time (Lc1) - 1700 ADT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - GROUND RUN Finding(s) 1. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - HIGH VEGETATION 3. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - SOFT 4. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - ROUGH/UNEVEN 5. GROUND LOOP/SWERVE - UNCONTROLLED -ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF Finding(s) 6. TERRAIN CONDITION - HIGH VEGETATION Occurrence #3 NOSE OVER Phase of Operation TAKEOFF ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SELECTION OF UNSUITABLE TERRAIN (UNIMPROVED STRIP) BY THE PILOT. SOFT/UNEVEN TERRAIN & LOW BUSHES ON THE STRIP, AS WELL AS ALDERS BESIDE THE STRIP, WERE CONTRIBUTING FACTORS.

File No 406 6/19/89 ANCHORAGE,AK				Time (Lc1) - 2225 ADT			
-Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Dama SUBSTANTIAL		Fatal	Injur Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crew Pass	0	0	0	1 3
-Aircraft Information Make/Model - CESSNA 180 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2800 No. of Seats - 4	Number En Engine Ty	Model - CONTINEN gines - 1 pe - RECIPROC er - 230 H	ATING-CARBURE	S	Installed/A tall Warnin		
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	Itinerary G Last Depar THEODORE			Airport ON AIR	Proximity PORT		
Completeness - N/A	Destination	· · · · · · · · · · · · · · · · · · ·		Airport D	ata		
Basic Weather - VMC	SAME AS	ACC/INC		MERRIL			
Wind Dir/Speed- CALM	ATC/Airspace				Ident - Lth/Wid -		100
Visibility - 60.0 SM Lowest Sky/Clouds - 18000 FT THI Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	N BKN Type of Fl Type of Cl			Runway	Surface -		
Personnel Information							
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 40 Biennial Flight		al Certificat	e - VALID nt Time (H		I V E K S / L I M	711
PRIVATE	Current		otal -		Last 24	Hrs -	2
SE LAND	Months Since	- 6 M e - C-180 I	lake/Model-	316	Last 30	Days-	29
	Aircraft Typ	e - C-180 I	nstrument-	0	Last 90	Days-	73
Instrument Rating(s) - NONE							
-Narrative PLT RPRTD THAT DRG THE LANDING, HE LOST	DIRECTIONAL CONTRO	AFTER TOUCHDOW	IN SUBSEQUENT	TIY THE A	CET GROUND	LOOPED	
THE RIGHT & THE LEFT MAIN GEAR FAILED.	DIRECTIONAL CONTRO	2 A. IER 10001100#	55555455141	, III. A	5 GROOND	200, 20	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF DIRECTIONAL CONTROL BY THE PILOT & INADVERTENT GROUND LOOP/SWERVE OF THE AIRCRAFT DURING THE LANDING.

File No 556 6/19/89 SHESH	ALIK,AK A/C Re	eg. No. N7735K	Ti	me (Lc1) -	1330 ADT	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	L AVIATION) Aircraf SUBSTAI Fire NONE	t Damage NTIAL Crew Pass	Fatal O O	Injur Serious O O	ies Minor O O	None 1 2
Aircraft Information Make/Model - PIPER PA-20 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1950 No. of Seats - 4	Eng Make/Model - LY0 Number Engines - 1 Engine Type - RE0 Rated Power -		Si	installed/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- LIGHT AND VARIABLE Visibility - 100.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	KOTZEBUE,AK Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance	- NONE	Airport Da Runway Runway Runway	RPORT/STRIP ita Ident - Lth/Wid - Surface -	N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) ATP SE LAND, ME LAND Instrument Rating(s) - AIRPLANENarrative E PILOT REPORTED THAT HE WAS LANDING AT AN	Age - 40 Biennial Flight Review Current - YES Months Since - 6 Aircraft Type - PA-44	Total - Make/Model- Instrument- UN Multi-Eng -	t Time (Ho 2900 500 K/NR 20	ours) Last 24 Last 30 Last 90 Rotorcr	Hrs - UN Days- UN Days- UN aft - UN	K/NR K/NR K/NR
NAL PHASE OF THE LANDING ROLL, HE APPLIED T ISE OVER. A POST ACCIDENT INSPECTION OF THE IRRODED. THE PILOT RECOMMENDS THAT A HARD AP IE CONDITION OF THE BRAKES.	HE BRAKES AND THE LEFT BRAKI BRAKES BY THE PILOT REVEALEI	LOCKED, CAUSING T THAT THE LEFT BRA	HE AIRPLAN KE WAS OXI	NE TO SLOWL DIZED AND	Υ	

File No. - 556 6/19/89 SHESHALIK,AK A/C Reg. No. N7735K Time (Lcl) - 1330 ADT

Occurrence #1 NOSE OVER
Phase of Operation LANDING - ROLL

Finding(s)

1. LANDING GEAR,NORMAL BRAKE SYSTEM - SEIZED
2. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S FAILURE TO PERFORM AN ADEQUATE PREFLIGHT INSPECTION OF THE AIRPLANE'S BRAKES.

----Probable Cause----

Aircraft Damag SUBSTANTIAL Fire NONE	e Crew Pass	_	Injur Serious O O	ries Minor O	None 1 1
	Pass	0	0	0	4
					1
	TING-CARBURI	St	nstalled/A all Warnin		
		Administra D			
				,	
		•			
				•	
arance - NONE		Runway	Surface -	- N/A	
				NIVERS/LIM	ΙΤ
	_			l Hrs -	2
- 1 Ma - C-182 In	ke/Model-	52	Last 30	Days-	28 60
	ght Plan - NONE arance - NONE Medica eview - YES To - 1 Ma - C-182 In	Medical Certificate Fight - YES Total - Make/Model - C-182 Instrument-	Airport P ure Point OFF AIR CC/INC Airport Da Runway Runway Runway Runway Arance - NONE Runway Arance - NONE Medical Certificate - VALID PYES Total - 319 - 1 Make/Model - 52 - C-182 Instrument - 12 SSENGER HAD LANDED THERE TO GO FISHING	Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/	Airport Proximity Ure Point OFF AIRPORT/STRIP CC/INC Airport Data Runway Ident - N/A Runway Lth/Wid - N/A Runway Surface - N/A Runway Surface - N/A Runway Status - N/A Arance - NONE Runway Status - N/A Arance - NONE Runway Status - N/A Arance - NONE Medical Certificate - VALID MEDICAL-WAIVERS/LIM Eview Flight Time (Hours) - YES Total - 319 Last 24 Hrs 1 Make/Model - 52 Last 30 Days-

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SELECTION OF UNSUITABLE TERRAIN BY THE PILOT. PROBABLE CONTRIBUTING FACTORS WERE THE SOFT SAND AND THE PILOT'S DELAY IN ABORTING THE TAKEOFF.

 -Basic Information						
Type Operating Certificate-COMMUTER	Aircr	aft Damage		Inj	uries	
Name of Carrier -SEAGULL AIR SI Type of Operation -NON SCHED,DOME Flight Conducted Under -14 CFR 135	ERVICE SUBS	STANTIAL	Fatal			None
Type of Operation -NON SCHED, DOME	ESTIC, PASSENGER Fire		Crew O	0	0	1
Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	NONE		Pass 0		0	4
-Aircraft Information					,	
Make/Model - PIPER PA-32-300	Eng Make/Model -		K1A5 EL	T Installed		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3400	Number Engines - Engine Type -	1 RECIP-FUEL INJEC	TED	Stall Warn	ing System	- YES
No. of Seats - 6	O ,.	300 HP	IED			
-Environment/Operations Information						
Weather Data	Itinerary	: m.t		t Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poi BETHEL.AK	int	UFF	AIRPORT/STR	16	
Completeness - N/A	Destination		Airport	Nata		
Basic Weather - VMC	SAME AS ACC/INC		Amport	Data		
Wind Dir/Speed- 290/014 KTS			Runw	ay Ident	- N/A	
Visibility - 20.0 SM	ATC/Airspace			ay Lth/Wid		
Lowest Sky/Clouds - N/A	Type of Flight Pla				- N/A	
Lowest Ceiling - 1500 FT BROKEN				ay Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDI	NG			
Precipitation - NONE Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 27	Medical Certi	ficate - VAL	ID MEDICAL-	NO WAIVERS	/LIMIT
	Biennial Flight Review		Flight Time			
COMMERCIAL, CFI	Current - YES		- 1635	Last	24 Hrs -	8
SE LAND, ME LAND	Months Since - 8		1- 710	Last	30 Days-	128
	Aircraft Type - PA-3	32 Instrumen Multi-Eng	t- 106 - 26	Last	90 Days-	270
Instrument Rating(s) - AIRPLANE						

File No 4	08 6/23/89	TUNTUTULIAK,AK	A/C Reg. No. N15306	Time (Lcl) - 1340 ADT
Occurrence #1 Phase of Operation		POWER(TOTAL) - MECH FAI	LURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY	,CRANKSHAFT - FAIL	URE, TOTAL	·	
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	NCY		·
Occurrence #3 Phase of Operation	ON GROUND COLLIS	SION WITH TERRAIN/WATER		
Finding(s) 2. TERRAIN CONDITI	ON - DIRT BANK			
Probable Cause		``````````````````````````````````````		
The National Inches	ntation Cofoty Pos	and dotanminos that the	Probable Cause(s) of this assid	lont von

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE ENGINE CRANKSHAFT. A CONTRIBUTING FACTOR TO AIRCRAFT DAMAGE WAS A MUD (DIRT) BANK WHICH THE AIRCRAFT HIT DURING THE EMERGENCY LANDING.

Basic Information			_				
Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft SUBSTAN		Fatal	Inju Serious		None
Type of Operation -BUSINESS		Fire	Cre		1	0	0
Flight Conducted Under -14 CFR 91		NONE	Pas		1	ŏ	Ö
Accident Occurred During -APPROACH							
Aircraft Information							
Make/Model - DE HAVILLAND DHC-2			W R-985				
Landing Gear - FLOAT					Stall Warni	ng System	- NO
Max Gross Wt - 5090 No. of Seats - 6			PROCATING-CARBU	JRETOR			
No. or seats - 6	Rated Pow	er	120 HP				
Environment/Operations Information	Thinns				Donat day 44		
Weather Data Wx Briefing - NO RECORD OF BRIEFI	Itinerary NG Last Depar	tuna Daint			Proximity IRPORT/STRI	D	
Method - N/A	SAME AS			UFF A	IRPURI/SIRI	٣	
Completeness - N/A	Destination	•		Airport	Data		
Basic Weather - VMC	SAME AS						
Wind Dir/Speed- 270/010 KTS		•		Runwa	y Ident	- N/A	
Visibility - 10.0 SM	ATC/Airspace				y Lth/Wid		
Lowest Sky/Clouds - 2000 FT SC	ATTERED Type of Fl	ight Plan -	COMPANY (VFR)		y Surface	•	
Lowest Ceiling - 3000 FT BR				Runwa	y Status	- N/A	
Obstructions to Vision- NONE	Type Apch/	Lnag -	NONE				
Precipitation - NONE Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 44	1	Medical Certific	cate - VALI	D MEDICAL-N	O WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight	Review		ight Time (I			
COMMERCIAL	Current		Total -	10000	Last 2	4 Hrs -	1
SE LAND, ME LAND, SE SEA, ME SEA	Months Since		Make/Model-	1000	Last 3	O Days-	6
	Aircraft Typ	e - M-7	Instrument- Multi-Eng -		Last 9	O Days-	6
Instrument Rating(s) - AIRPLANE							
Nonetive							
Narrative INAL APPROACH THE ENGINE QUIT, AND THE	ATDDIANE CDASHED TNI	TO 4 WOODED	ADEA THE ATOD	I ANE WAS SHI	RSTANITALLV		
GED AND THE PILOT AND PASSENGER WERE SE							
TEL THE TELET WITH THOUSENESS WERE SE			SED IT TO BIND				

File No 5	55 6/24/89	ILIAMNA,AK	A/C Reg.	No. N5595M	Time (LC1) - 1430 ADT
Occurrence #1 Phase of Operation		POWER(TOTAL) - MECH PATTERN - BASE LEG/			
Finding(s) 1. IGNITION SYSTEM 2. MAINTENANCE,ANN	•		MAINTENANCE PSNL		
	FORCED LANDING DESCENT - EMERGE	ENCY			
Occurrence #3 Phase of Operation	IN FLIGHT COLLIS	SION WITH OBJECT			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE ANNUAL INSPECTION BY MAINTENANCE PERSONNEL.

Type Operation Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	SUBSTANTIAL	Fatal	Injuries Serious M	inor	
Accident Occurred During -LANDING		Crew O Pass O	0	0	None 1 2
Aircraft Information Make/Model - CESSNA 180H Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2800 No. of Seats - 6	Eng Make/Model - CONTINENTAL 0-47 Number Engines - 1 Engine Type - RECIPROCATING-CA Rated Power - 230 HP	S1 RBURETOR	nstalled/Acti all Warning S	ystem	- YES
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 150/010 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 2500 FT SCATTER Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point DILLINGHAM,AK Destination SAME AS ACC/INC ATC/Airspace RED Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FULL STOP	Airport F OFF AIR Airport Da Runway Runway Runway	Proximity RPORT/STRIP	500/ RT	50
Personnel Information Pilot-In-Command Ag	ge - UNK/NR Medical Certi iennial Flight Review Current - UNK/NR Total Months Since - UNK/NR Make/Mode Aircraft Type - UNK/NR Instrumen	ficate - VALID Flight Time (Ho - 6500 l- 3000 t- UNK/NR - UNK/NR	ours) Last 24 Hr Last 30 Da	s - ys- ys-	1 20 50

File No 5	552 6/25/89 NAKNEK,AK	A/C Reg. No. N2435F	Time (Lc1) - 2000 ADT	
Occurrence #1 Phase of Operation	LOSS OF CONTROL - ON GROUND LANDING - ROLL			
Finding(s) 1. UNSUITABLE TERF	RAIN - SELECTED - PILOT IN COMMAND			
Occurrence #2 Phase of Operation 2. LANDING GEAR,MA	MAIN GEAR COLLAPSED LANDING - ROLL AIN GEAR - OVERLOAD			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF AN UNSUITABLE LANDING AREA.

-Basic Information						
Type Operating Certificate-NONE (GENERA		aft Damage		Inju		
Time of Occupation DEDCOMAL		TANTIAL	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE			0	0	1
Accident Occurred During -LANDING		Pas:		· ·	· ·	O
-Aircraft Information						
Make/Model - INTERSTATE S-1A		YCOMING 0-290-D				
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1450	Number Engines -	1 RECIPROCATING-CARBUR		itall Warni	ng System	- NO
No. of Seats - 2	J , ,	125 HP	ETUR			
	rated Fower -	125 ПР				
-Environment/Operations Information	Thimenau			D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poi	a+	Airport ON AIF	Proximity		
Method - N/A	SAME AS ACC/INC	it.	UN AIR	SIKIP		
Completeness - N/A	Destination		Airport [lata		
Basic Weather - VMC	LOCAL		ILIASK			
Wind Dir/Speed- 160/010 KTS			_		- 18	
Visibility - 50.0 SM	ATC/Airspace		Runway	Lth/Wid	- 700/	75
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 - 43	Medical Certifica	.+o - VALTE	MEDICAL -W	ATVEDS /LTA	A T T
Certificate(s)/Rating(s)	Biennial Flight Review	Flic	ht Time (F		AIVERS/ LIN	11.1
COMMERCIAL	Current - UNK/I	NR Total -	2521	Last 2	4 Hrs -	1
SE LAND, SE SEA	Current - UNK/I Months Since - UNK/I Aircraft Type - DHC-:	NR Make/Model-	24	Last 3	O Days-	46
	Aircraft Type - DHC-:	2 Instrument-	24	Last 9	O Days-	46
Instrument Rating(s) - AIRPLANE						
-Narrative						
PILOT STATED THAT HE HIT A BUMP IN THE RU	NWAY, CAUSING THE AIRPLAN	TO BOUNCE DURING L	ANDING. HE	THEN		
EMPTED TO MAKE A GO-AROUND. THE RIGHT WING						
OT TO LOSE CONTROL OF THE AIRPLANE AND NOS						

6/27/89 ILIAMNA,AK A/C Reg. No. N37209 Time (Lc1) - 1500 ADT File No. - 550 Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED Finding(s) 1. TERRAIN CONDITION - ROUGH/UNEVEN Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ABORTED Findina(s) 2. TERRAIN CONDITION - HIGH VEGETATION 3. RECOVERY FROM BOUNCED LANDING - IMPROPER - PILOT IN COMMAND NOSE OVER Occurrence #3 Phase of Operation LANDING - ABORTED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT FAILED TO MAINTAIN DIRECTIONAL CONTROL DURING THE ATTEMPTED GO-AROUND. FACTORS IN THE ACCIDENT WERE THE ROUGH/UNEVEN TERRAIN AND THE BRUSH BESIDE THE RUNWAY.

----Probable Cause----

-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Damage	Injuries				
_		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -PERSONAL		ire	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 - HELIO H800		∍1 - LYCOMING IO-7:	20		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engin			S	tall Warnir	ng System	- YES
Max Gross Wt - 4000	Engine Type	- RECIP-FUEL IN	JECTED				
No. of Seats - 2	Rated Power	- 400 HP					
-Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - UNK/NR	Last Departur			OFF AI	RPORT/STRIF)	
Method - UNK/NR	ANCHORAGE, A	<					
Completeness - UNK/NR	Destination	/		Airport D	ata		
Basic Weather - VMC	SAME AS ACC	INC		Diamina	Talama	N/A	
Wind Dir/Speed- 010/015 KTS Visibility - 60.0 SM	ATC/Airspace					N/A N/A	
Lowest Sky/Clouds - CLEAR	Type of Fligh	+ Dlan - NONE			Surface -	•	
Lowest Ceiling - NONE	Type of Clear					N/A N/A	
Obstructions to Vision- NONE		g - FULL STOP		Kariway	5 (4 (45		
Precipitation - NONE	Type Apony End	, , , , , , , , , , , , , , , , , , , ,					
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 33	Medical Ce	ntificat	e - VALTO	MEDICAL-NO	WATVERS.	/I TMTT
Centificate(s)/Rating(s)	Biennial Flight Rev			nt Time (H		, marvens,	221-121
PRIVATE	Current -	YES Total			Last 24	Hrs -	8
SE LAND, ME LAND	Months Since - Aircraft Type -	3 Make/Mo	ode1-				25
HELICOPTER	Aircraft Type -	C-172 Instru		Ö	Last 30 Last 90	Days-	70
		Multi-	Eng -	270	Rotorcr		600
7			J				
Instrument Rating(s) - NONE							
-Narrative							
PILOT REPORTED THAT HE ELECTED TO LAND	ON FLAT TERRAIN THAT A	PPEARED TO BE SOLT	D ENOUGH	H TO SUPPO	RT THE ATRO	RAFT	

6/27/89 KING SALMON,AK A/C Reg. No. N4104D Time (Lc1) - 1800 ADT File No. - 490

Occurrence #1 Phase of Operation LANDING - ROLL

NOSE OVER

Finding(s)

- 1. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND
- 2. TERRAIN CONDITION SOFT
- 3. TERRAIN CONDITION WET

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT SELECTED UNSUITABLE TERRAIN FOR THE LANDING. SOFT/WET (MUDDY) TERRAIN CONDITIONS WERE CONTRIBUTING FACTORS.

-Basic Information Type Operating Certificate-NONE (GENE		t Damage		Inju		
Town of Organishing DERCOMA	SUBSTA		Fatal	•		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crev Pass	-	0	0	1
Accident Occurred During -MANEUVERIN		rass	s 0	O	O	3
-Aircraft Information						
Make/Model - CESSNA 185F Landing Gear - FLÓAT	Eng Make/Model - CC Number Engines - :			Installed/ tall Warni		
Max Gross Wt - \$362	Engine Type - RE		3	tali warni	ng system	- 163
No. of Seats - 4	Rated Power -	300 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity	_	
<pre>Wx Briefing - NO RECORD OF BRIEFII Method - N/A</pre>	NG Last Departure Point SAME AS ACC/INC	•	OFF AI	RPORT/STRI	Р	
Method - N/A Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	DILLINGHAM, AK		Allpoit b	ata		
Wind Dir/Speed- 300/015 KTS	, ,,,		Runway	Ident	- N/A	
Visibility - 60.0 SM	ATC/Airspace			Lth/Wid		
Lowest Sky/Clouds - 5000 FT SC	ATTERED Type of Flight Plan	- VFR		Surface	•	
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance	- NONE - NONE	Runway	Status	- N/A	
Precipitation - NONE	Type Apch/Lndg	- NUNE				
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command Certificate(s)/Rating(s)	Age - 50 Biennial Flight Review	Medical Certifica	ate - VALID ght Time (H		O WAIVERS,	LIMIT
COMMERCIAL	Current - VES	Total -	4500	Last 2	4 Hrs -	6
SE LAND, SE SEA	Current - YES Months Since - 1	Make/Model-	4200	Last 3	O Davs-	130
,	Aircraft Type - C-185	Instrument-	48	Last 9	O Days-	220
Instrument Rating(s) - AIRPLANE						
-Narrative						
PLT OF A FLOAT PLANE RPRTD THAT HE MADE A. REPORTEDLY, THE ACFT ENCOUNTERED A DO						
A REPURIEULY IME ACEL ENCUUNIEREN A NU	WINDRAFT DRG THE LUW PASS THAT	EVOFFDED II2 CFIL	IR CAPARILI	TY. SUBSEQ E ACFT BEL		

File No. - 491 6/30/89 DILLINGHAM, AK A/C Reg. No. N6305E Time (Lc1) - 1805 ADT

Occurrence #1 ALTITUDE DEVIATION, UNCONTROLLED Phase of Operation MANEUVERING

Finding(s)

1. LOW PASS - PERFORMED - PILOT IN COMMAND

2. WEATHER CONDITION - DOWNDRAFT

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

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: IMPROPER PLANNING/DECISION BY THE PILOT & A STRONG DOWNDRAFT.

Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft Damage	2		Injur	ies	
Type operating serim reads many (s		SUBSTANTIAL		Fatal		Minor	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 -TAKEOFF							
Aircraft Information							
Make/Model - PIPER PA-28		/Model - LYCOMING C)-320-B2B				
Landing Gear - TRICYCLE-FIXED		ngines - 1	****		tall Warnir	ng System	- YES
Max Gross Wt - 2200 No. of Seats - 4	Engine Po	ype - RECIPROCAT wer - 160 HP	ING-CARBURE	TUR			
No. of Seats - 4	Rated Po	wer - 160 HP					
Environment/Operations Information							
Weather Data	Itinerary	. 5			Proximity		
Wx Briefing - NO RECORD OF BRI Method - N/A		rture Point ACC/INC		OFF AI	RPORT/STRIF	•	
Completeness - N/A	Destinatio			Airport D	a+a		
Basic Weather - VMC	LOCAL	1		NAKNEK			
Wind Dir/Speed- 120/010 KTS	255.12					26	
Visibility - 10.0 SM	ATC/Airspac				Lth/Wid -		60
Lowest Sky/Clouds - 2500 FT					Surface -		
Lowest Ceiling - 8000 FT				Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch	/Lndg - NONE					
Precipitation - NONE Condition of Light - DAYLIGHT							
			·				
Personnel Information Pilot-In-Command	Age - 30	Medical	Certificat	e - VALID	MEDICAL-NO	WAIVERS.	/IIMIT
Certificate(s)/Rating(s)	Biennial Flight			nt Time (H	ours)		
STUDENT	Current		al -	516	Last 24	Hrs -	1
	Months Sinc		ke/Model-	490	Last 30 Last 90	Days-	20
	Aircraft Ty				Last 90	Days-	40
		Mu 1	ti-Eng -	0			
Instrument Rating(s) - NONE							
Mannativa							
Narrative STUDENT PILOT REPORTED THAT DURING T	AKENEE THE ATROLANE	CLIMBED TO ABOUT 40	OO ET AGL 3	HEN STALL	ED SURSEAL	IENTI V	
		PETMIDED IO ADOUT 1	O I I AUL,	TILIN STALL	LU. JUDJEUL	LINILI,	

File No 4	92 7/13/89 	NAKNEK, AK	A/C Reg. No. N5745W	Time (Lcl) - 1900 ADT
Occurrence #1				
Phase of Operation	TAKEOFF - INITIAL	_ CLIMB		
Finding(s) 1. AIRSPEED - NOT 2. STALL - INADVER				
Occurrence #2 Phase of Operation	IN FLIGHT COLLISI TAKEOFF	ON WITH TERRAIN/WATER		
Finding(s) 3. TERRAIN CONDITI	ON - WATER			
Probable Cause				
The National Transpo	rtation Safety Boar	rd determines that the Pr	robable Cause(s) of this accide	ent was:

THE PILOT FAILED TO MAINTAIN AIRSPEED AND INADVERTENTLY ALLOWED THE AIRPLANE TO STALL.

-Basic Information Type Operating Certificate	-NONE (GENERAL AVI	(ATION)	t Damage		Injur	ios	
,	-PERSONAL -14 CFR 91	SUBSTA Fire NONE	NTIAL C	Fatal rew O ass O	•	Minor 1 0	None 0 0
-Aircraft Information Make/Model - CHAMPION 7 Landing Gear - TAILWHEEL- Max Gross Wt - 1600 No. of Seats - 2	 ECA	Eng Make/Model - LY Number Engines - 1 Engine Type - RE Rated Power -			T Installed/A Stall Warnir		
Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 120/020 Visibility - 10.0 Lowest Sky/Clouds -	D OF BRIEFING KTS SM UNK/NR 2000 FT OVERCAST NONE	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	OFF Airport KING Runw Runw Runw Runw	SALMON ay Ident - ay Lth/Wid - ay Surface -	· 11 · 8500/	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND		- 20 nnial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total Make/Model	light Time - 105 - 105 - 0	(Hours) Last 24 Last 30	Hrs - l Days- l Days- l	JNK/NR
Instrument Rating(s)Narrative E PILOT REPORTED THAT DURING A BSEQUENTLY, IT DEPARTED THE DE ET OF WATER. NO PREIMPACT PART S DATED 6/9/86.	LANDING AT THE KI	E RUNWAY, HIT A SEAWALL	, THEN NOSED OV	ER AND SANK	IN ABOUT 30	TO 40	

File No. - 488 7/13/89 KING SALMON, AK A/C Reg. No. N9541S Time (Lcl) - 1826 ADT Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 1. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND 2. AIRSPEED - EXCESSIVE - PILOT IN COMMAND 3. DISTANCE - MISJUDGED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL 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 LANDED BEYOND THE PROPER TOUCHDOWN POINT WITH EXCESSIVE AIRSPEED AND MISJUDGED THE DISTANCE OF RUNWAY REMAINING.

Type Operating Certificate	NONE (GENERAL	AVIATION)	Aircraft Damag SUBSTANTIAL	е	Fatal	Injur Serious	ries Minor	None
Type of Operation	- PERSONAI		Fire	Crew	0	0	0	1
Flight Conducted Under			NONE	Pass	Ö	0	Ô	Ö
Accident Occurred During	TAKEOFF				-	·	· ·	_
-Aircraft Information								
Make/Model - PIPER J-3			del - CONTINENT	AL C-90-12F		Installed/A		
Landing Gear - FLOAT		Number Engi				tall Warnir	ng System	- NO
Max Gross Wt - 1300		Engine Type			ΓOR			
No. of Seats - 2		Rated Power	- 95 HP					
-Environment/Operations Inform	nation							
Weather Data		Itinerary				Proximity		
	OF BRIEFING	Last Departu			OFF AIR	RPORT/STRIF)	
Method - N/A		SAME AS AC	C/INC	,		- 4 -		
Completeness - N/A		Destination		1	Airport Da	ата		
Basic Weather - VMC Wind Dir/Speed- CALM		LOCAL			Dunyay	Ident -	- NI / A	
Visibility - 25.0	CM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds -			ht Dlan - NONE			Surface -		
, ·	NONE		rance - NONE			Status -		
Obstructions to Vision- N		Type Apch/Ln			Kariway	Status	137.6	
Precipitation - F		, ypo //po//, 2//						
Condition of Light - [DAYLIGHT							
-Personnel Information								
Pilot-In-Command		lge - 62		1 Certificate			AIVERS/LIM	ΙT
Certificate(s)/Rating(s)	E	Biennial Flight Re			t Time (Ho		4 11 -	
PRIVATE		Current	- YES 10	tal - ·	1200	Last 24	Hrs -	1
SE LAND, SE SEA		Months Since	- 1 Ma	ke/Model-	800	Last 30	Days-	5
		Aircraft Type	- U-3 In	ke/Model- strument- UNk lti-Eng -	C/NR	Datana	Days-	5 0
			Mu	iti-Eng -	O	ROTOFCI	'art -	U
Instrument Rating(s)	- NONE							
-Narrative PLT RPRTD THAT DRG TAKEOFF FF ACDNT, HE NOTED HE HAD "EXCE:								
E BEEN HELPFUL. ALSO, HE RPRTI FHE LAKE THAT WOULD HAVE PROVI	THERE WERE CA	ALM WIND CONDITION						

File No. - 489 7/13/89 PARKER LAKE,AK A/C Reg. No. N27024 Time (Lc1) - 1500 ADT

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

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION IMPROPER PILOT IN COMMAND
- 2. AIRSPEED NOT ATTAINED PILOT IN COMMAND
- 3. STALL/MUSH INADVERTENT PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PREFLIGHT PLANNING BY THE PILOT AND HIS FAILURE TO ATTAIN AND/OR MAINTAIN ADEQUATE SPEED, WHICH RESULTED IN A STALL/MUSH AFTER LIFT-OFF.

Basic Information							
Type Operating Certificate-ON-DEMAND A	IR TAXI	Aircraft Damage	:		Injur	ies	
Name of Carrier -OBERG, DAVI Type of Operation -NON SCHED, C	D	SUBSTANTIAL Fire		Fatal	Serious		
Type of Operation -NON SCHED, D	OMESTIC, PASSENGER	Fire	Crew	0	1	0	0
Flight Conducted Under -14 CFR 135 Accident Occurred During -MANEUVERING	:	UN GRUUND	Pass	O	1		0
Aircraft Information							
Make/Model - DE HAVILLAND DHC-2	Eng Make/Mo	odel - P & W R-98 ines - 1	5	ELT	Installed/A	ctivated	- YES/YI
Landing Gear - FLOAT					tali warnin	g System	- YES
Max Gross Wt - 5090	- 3	- RECIPROCAT	ING-CARBUR	ETUR			
No. of Seats - 6	Rated Power	- 450 HP					
Environment/Operations Information	.						
Weather Data	Itinerary	- B - 1 - 1		Airport			
Wx Briefing - NO RECORD OF BRIEFIN		ire Point		OFF AI	RPORT/STRIP		
Method - N/A Completeness - N/A	AKHIOK,AK Destination			Airport D	2+2		
Basic Weather - IMC	KODIAK, AK			ATTPOLL	ata		
Wind Dir/Speed- 120/015 KTS	RODIAN, AN			Runway	Ident -	N/A	
Visibility - 1.000 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ht Plan - COMPAN	IY (VFR)		Surface -		
Lowest Ceiling - 200 FT OBS			•	Runway	Status -	N/A	
Obstructions to Vision- FOG	Type Apch/Lr	ndg - NONE		•			
Precipitation - RAIN							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 38 Biennial Flight Re	Medical	Certifica		WEDÍCAL-NO	WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Re	eview	Flig	ht Time (H	ours)	Unc	5
COMMERCIAL SE LAND.ME LAND.SE SEA	Current Months Since Aircraft Type	- 1E2 TOT	aı - - Modol -	9002	Last 24 Last 30 Last 90	Ua∧e. □1.2	142
HELICOPTER	MUTITIES SINCE	- DHC-2 The	trument-	105	1ast 30	Days-	420
HELICOFIER	All Clart Type	Mul	ti-Ena -	1588	Rotorcr	aft -	523
		Mari		. 300			323
Instrument Rating(s) - AIRPLANE							
Narrative AIRPLANE CRASHED AT THE 1800 FOOT LEVEL	OF A MOUNTAIN DASS	NEAD KODTAK ALA	CVA THE A	TODIANE WA	c		
TANTIALLY DAMAGED AND THE PILOT AND ONE							
	SS WAS REPORTED CLOS				LITED MILITOR		

File No. - 549 7/13/89 KODIAK, AK

A/C Reg. No. N5354G Time (Lcl) - 1415 ADT

Phase of Operation MANEUVERING

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

- 1. WEATHER CONDITION FOG
- 2. VFR FLIGHT INTO IMC INTENTIONAL PILOT IN COMMAND
- 3. WEATHER CONDITION LOW CEILING
- 4. WEATHER EVALUATION NOT UNDERSTOOD PILOT IN COMMAND
- 5. WEATHER CONDITION TURBULENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S CONTINUED VFR FLIGHT INTO KNOW IFR FLT CONDITIONS, RESULTING IN A COLLISION WITH RISING TERRAIN.

File No 474 7/15	/89 QUINHAGAK,A	AGAK,AK A/C Reg. No. N32062 Time			ime (Lcl)	- 1742 ADT			
Basic Information									
Type Operating Certificate-	ON-DEMAND AIR TAXI		Aircraft Da	amage			Inju	ries	
Name of Carrier -	KUSKU VATATIUN		DESTROVED			Fatal			None
Type of Operation - Flight Conducted Under -	NON SCHED, DOMESTIC	, PASSENGER	Fire		Crew	0	0	0	1
Flight Conducted Under -	14 CFR 135		ON GROUND		Pass	0	0	0	6
Accident Occurred During -	LANDING								
Aircraft Information									
Make/Model - PIPER PA-32	-300	Eng Make/Mod	del - LYCOMI	NG 10-540		FLT	Installed/	Activated	- YES/YES
Landing Gear - TRICYCLE-FI		Number Engir					tall Warni		
Max Gross Wt - 3400		Engine Type		-FUEL TNUE	CTED	3		ng system	123
No. of Seats - 7		Rated Power			3125				
No. 01 Jeacs /									
Environment/Operations Inform									
Weather Data		tinerary					Proximity		
	OF BRIEFING	Last Departur	re Point			OFF AI	RPORT/STRI	>	
Method - N/A		BETHEL, AK							
Completeness - N/A		Destination				Airport D	ata		
Basic Weather - VMC	•	QUINHAGAK,A	λK			_			
Wind Dir/Speed- CALM		 /						- N/A	
Visibility - 60.0		TC/Airspace			- \		Lth/Wid		
Lowest Sky/Clouds - C		Type of Fligh			₹)		Surface		
3	ONE	Type of Clear				Runway	Status	- N/A	
Obstructions to Vision- N		Type Apch/Lnd	dg - F0	DRCED LAND	ING				
Precipitation - N									
Condition of Light - D	ATLIGNI 				- -				
Personnel Information									
Pilot-In-Command	Age -						MEDICAL-W	AIVERS/LIM	ΙT
Certificate(s)/Rating(s)		ial Flight Rev				nt Time (H			
COMMERCIAL		urrent -		Total			Last 2		3
SE LAND, ME LAND, SE SEA	M	onths Since - ircraft Type -	- 7	Make/Mode	el-	272	Last 3	Days-	30
	А	ircraft Type -	- PA-32		11	150	Last 9	O Days-	109
				Multi-Eng	g -	619			
Instrument Rating(s) -	AIRPLANE								
Narrative									
HE PILOT STATED THAT WHILE THE A									
OLLOWED BY A SEVERE VIBRATION OF									
S HE MANEUVERED ONTO A FINAL APP									
ABIN. THE PILOT TRIED TO APPLY P									
TILL RUNNING. THE AIRCRAFT TOUCH									
NGINE. THE PILOT SAID HE TRIED T									
HE FIRE. ABOUT 10 INCHES OF ONE			JRING THE O	CCURRENCE;	HOWE	/ER, THE I	NVESTIGATI	ON DID	
OT DETERMINE WHETHER IT HAD FAIL	ED BEFORE OR AFTER	IMPACT.							
									

File No 4	74 7/15/89	QUINHAGAK,AK	A/C Reg. No	o. N32062	Time (Lcl) - 1742 ADT
Occurrence #1 Phase of Operation		POWER(TOTAL) - MECH FA	ILURE/MALF		
Finding(s) 1. POWERPLANT - UN 2. POWERPLANT - VI 3. FLUID,OIL - LEA	BRATION K			'	
Occurrence #2 Phase of Operation		ENCY			
Finding(s) 4. ENGINE COMPARTM	ENT - FIRE				
Occurrence #3 Phase of Operation	FORCED LANDING DESCENT - EMERGI	ENCY			
Occurrence #4 Phase of Operation		SION WITH TERRAIN/WATE	R		
Finding(s) 5. TERRAIN CONDITI					
Probable Cause					
•		ard determines that th SON, WHICH RESULTED IN			

File No 478 7/23/89 ALE	XANDER CREEK,AK	A/C Reg. No. N6366N Time (Lcl) - 1730 A				- 1730 AD	Γ
-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Dar	mage		Inju	ıries	
, , , , , , , , , , , , , , , , , , ,	·	SUBSTANTIA	L	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	C	rew 0	0	0	1
Flight Conducted Under -14 CFR 91		NONE	Pa	ass O	0	0	1
Accident Occurred During -LANDING							
-Aircraft Information							
Make/Model - CHAMPION 7GCBC		del - LYCOMI					
Landing Gear - FLOAT		nes - 1			Stall Warni	ng System	- NO
Max Gross Wt - 1800	Engine Type	- RECIPRO	OCATING-CAR	BURETOR			
No. of Seats - 2	Rated Power	- 150	HP				
-Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Departu	ıre Point		OFF A	IRPORT/STRI	P	
Method - N/A	SAME AS AC	C/INC					
Completeness - N/A	Destination			Airport 1	Data		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 330/007 KTS						- N/A	
Visibility - 35.0 SM	ATC/Airspace				y Lth/Wid		
Lowest Sky/Clouds - 2500 FT SC					y Surface		
Lowest Ceiling - NONE	Type of Clea	rance - NO!	NE		y Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Ln	ndg - TR/	AFFIC PATTE	RN			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 46			icate - VALII		AIVERS/LII	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Re	eview	_ F	light Time (_
COMMERCIAL	Current Months Since	- YES	Total		Last 2		0
SE LAND, SE SEA	Months Since	- 9	Make/Model	940	Last 3	BO Days-	11
	Aircraft Type	- 7GCAA	Instrument	- 50	Last 9	O Days-	46
Instrument Detical(a)							
Instrument Rating(s) - AIRPLANE							
-Narrative						FLOAT	
	E FLOATPLANE ENCOUNTE	RED TURBULEN	CE & TOUCHE	D DOWN ON TH	E THE RIGHT		
-Narrative PLT RPRTD THAT AS HE FLARED TO LAND, TH ACFT THEN WENT FORWARD & THE RIGHT FLOA	E FLOATPLANE ENCOUNTE T TIP WENT INTO THE W	RED TURBULENG	CE & TOUCHE AUSED THE S	D DOWN ON TH	E THE RIGHT RIGHT FLOA	T TO	
	E FLOATPLANE ENCOUNTE T TIP WENT INTO THE W T & PIECES OF METAL P	RED TURBULENG	CE & TOUCHE AUSED THE S	D DOWN ON TH	E THE RIGHT RIGHT FLOA	T TO	

File No. - 478 7/23/89 ALEXANDER CREEK,AK A/C Reg. No. N6366N Time (Lc1) - 1730 ADT

Occurrence #1
Phase of Operation

NOSE DOWN

LANDING - FLARE/TOUCHDOWN

Finding(s)

1. WEATHER CONDITION - TURBULENCE

2. AIRCRAFT CONTROL - NOT MAINTAINED - 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 CONTROL OF THE AIRCRAFT DURING THE LANDING FLARE/TOUCHDOWN. TURBULENCE WAS A CONTRIBUTING FACTOR.

File No 553 7/23/89	CHITINA, AK A	/C Reg. No. N7400K	1	ime (Lcl) - 15	45 ADT	
Basic Information Type Operating Certificate-NONE ((craft Damage		Injuries		
Type of Openation DEDCOM		BSTANTIAL			inor	None
Type of Operation -PERSONA Flight Conducted Under -14 CFR		_	rew 0 ass 0	0 0	0	1
Accident Occurred During -LANDING		NE P	ass U	O	U	'
-Aircraft Information						
Make/Model - PIPER PA-20		- LYCOMING 0-320				
Landing Gear - TAILWHEEL-ALL FIXE				Stall Warning S	ystem -	- NO
Max Gross Wt - 1950		- RECIPROCATING-CAR	BURETOR			
No. of Seats - 3	Rated Power	- 150 HP				
Environment/Operations Information-						
Weather Data	Itinerary	- *		Proximity		
Wx Briefing - NO RECORD OF BRI Method - N/A	•	oint	OFF A	RPORT/STRIP		
Method - N/A Completeness - N/A	GULKANA,AK Destination		Airport [\a_+a		
Basic Weather - VMC	LOCAL		ATTPORT	Jala		
Wind Dir/Speed- 150/005 KTS	LOCAL		Punway	/ Ident - N/	٨	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid - N/		
Lowest Sky/Clouds - 500 F		lan - VFR		Surface - DI		
	BROKEN Type of Clearanc			/ Status - DR		
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP	•			
Precipitation - DRIZZLE						
Condition of Light - DAYLIGH	r 					
Personnel Information						
Pilot-In-Command	Age - 29	Medical Certif			RS/LIMI	ΙΤ
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Biennial Flight Review Current - YE	F S Total	light Time (F - 487	lours) Last 24 Hr	~ -	4
SE LAND	Months Since - 1	5 IOTAI	- 487 - 181	Last 30 Da	S -	59
SE LAND	Aircraft Type - C-	172 Instrument	- 48	Last 90 Da	ys- vs-	97
•	Arrerare Type C	Multi-Eng		Last 50 Da	y S	37
		2.19	-			
Instrument Rating(s) - AIRPLA	NNE					
Narrative						
THE END OF THE LANDING ROLL DURING	AN OFF-AIRPORT LANDING. THE	AIRPLANE'S MAIN WHE	ELS WENT INTO) A SHALLOW		
RESSION THAT CROSSED THE LANDING AREA						
SHOULD HAVE APPLIED BRAKES EARLIER DU						

File No. - 553 7/23/89 CHITINA,AK A/C Reg. No. N7400K Time (Lcl) - 1545 ADT

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

Finding(s)

1. TERRAIN CONDITION - ROUGH/UNEVEN
2. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND
3. TAXISPEED - EXCESSIVE - PILOT IN COMMAND
4. REMEDIAL ACTION - DELAYED - 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: THE PILOT'S SELECTION OF AN UNSUITABLE LANDING AREA AND DELAY IN SLOWING THE AIRPLANE AFTER LANDING. A FACTOR IN THE ACCIDENT WAS THE ROUGH/UNEVEN TERRAIN.

Type Operating Certificate-NONE (GENERAL AVIATION)	Aircraft Damage			Injur	ies	
		SUBSTANTIAL		Fatal		Minor	None
Type of Operation -BUSINE: Flight Conducted Under -14 CFR		Fire NONE	Crew Pass	-	0	1 0	0
Accident Occurred During -TAKEOF		NONE	Pass	O	O	O	2
-Aircraft Information							
Make/Model - CESSNA 206G		del - CONTINENTAL	10-520		Installed/A		
Landing Gear - FLOAT Max Gross Wt - 3600	Number Engi	nes - 1 - RECIP-FUEL I	NUCTED	S	tall Warnir	ng System	- YES
No. of Seats - 6	Rated Power		NUECTED				
-Environment/Operations Information-							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BR	•			OFF AI	RPORT/STRIF	•	
Method - N/A Completeness - N/A	SAME AS ACC Destination	C/INC		Airport D	0.00		
Basic Weather - VMC	LOCAL			A II POI C	ala		
Wind Dir/Speed- CALM	200//2			Runway	Ident -	N/A	
Visibility - 50.0 SM	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 10000 F					Surface -		
Lowest Ceiling - NONE		rance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lnd	dg - NONE					
Condition of Light - DAYLIGH	Г						
Personnel Information							
Pilot-In-Command	Age - 41	Medical C	ertifica [.]	te - VALID	MEDICAL-WA	IVERS/LIN	1IT
Certificate(s)/Rating(s)	Biennial Flight Re	view	_	nt Time (H			
ATP			_		Last 24		6
SE LAND, ME LAND, SE SEA	Months Since		Model-		Last 30	Days- UN	
	Aircraft Type	- C-206 Instr Multi	ument- -Eng -		Last 90	Days-	265
Instrument Rating(s) - AIRPL	ANE						
-Narrative							
FLOATPLANE PLT HAD LANDED ON A LAKE	TO "PICKUP" TWO FISHERME	N. HE STATED THAT	DRG A SUI	BSEQUENT T	AKEOFF. THE	TAKEOFF	
	CISION POINT, HE BELIEVED						

File No. - 483 7/26/89 ILIAMNA,AK A/C Reg. No. N6588Z Time (Lc1) - 1700 ADT

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER
Phase of Operation TAKEOFF

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

2. AIRSPEED - NOT ATTAINED - PILOT IN COMMAND

3. TERRAIN CONDITION - DIRT BANK

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: IMPROPER PLANNING/DECISION BY THE PILOT & HIS FAILURE TO ATTAIN ADEQUATE SPEED TO FLY. THE TERRAIN (BANK) WAS A CONTRIBUTING FACTOR.

Type Operating Certificate-NONE (GENERA		t Damage		Injuries		
Time of Openstion DEDCOMAL	SUBSTA		Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass	-	0	0	1
Accident Occurred During -TAKEOFF	NONE	· -	•	O	O	O
Aircraft Information						
Make/Model - CESSNA 140	Eng Make/Model - CC					
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warning S	System	- NO
Max Gross Wt - 1500	5	CIPROCATING-CARBUR	ETUR			
No. of Seats - 2	Rated Power -	90 HP				
Environment/Operations Information Weather Data	Itinerary		Ainmont	Dnovimitu		
Wx Briefing - NO RECORD OF BRIEFING				Proximity RPORT/STRIP		
Method - N/A	SAME AS ACC/INC	•	OFF AI	KFUKI/ SIKIF		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 180/004 KTS			Runway	Ident - N	/A	
Visibility - 50.0 SM	ATC/Airspace		Runway	Lth/Wid - N/	/ A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface - N,		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status - N,	/ A	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 39	Medical Certifica	te - VALID	MEDICAL-WAIVE	ERS/LIM	IIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		ht Time (H		•	
PRIVATE	Current - YES	Total -	587	Last 24 Hr	rs -	4
SE LAND	Months Since - 19	Make/Model-		Last 30 Da		51
	Aircraft Type - C-150			Last 90 Da		81
		Multi-Eng -	0	Rotorcraf	t -	0
Instrument Rating(s) - NONE						
Narrative						
PILOT STATED THAT DURING THE TAKEOFF GROU	NO DIN HE LOST DIDECTIONAL	CONTROL OF THE ATR	DIANE THE	ATDDI ANE		

File No. - 548 8/09/89 SPARREVOHN,AK A/C Reg. No. N1118D Time (Lcl) - 1915 ADT

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

Finding(s)

- 1. TERRAIN CONDITION LOOSE GRAVEL/SANDY
- 2. AIRCRAFT HANDLING NOT MAINTAINED PILOT IN COMMAND
- 3. TERRAIN CONDITION ROUGH/UNEVEN
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 5. UNSUITABLE TERRAIN MISJUDGED PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation TAKEOFF - GROUND RUN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S FAILURE TO MAINTAINED DIRECTIONAL CONTROL OF THE AIRPLANE DURING TAKEOFF. THE MISJUDGED TERRAIN WAS A CONTRIBUTING FACTOR IN THE EVENTUAL OUTCOME.

-Basic Information Type Operating Certificate-COMMUTER	Aircra	aft Damage		Injur	ies	
Name of Carrier -WARBELOW, Type of Operation -NON SCHED,		TANTIAL	Fatal			None
Type of Operation -NON SCHED,	DOMESTIC, PASSENGER Fire			1	0	0
Flight Conducted Under -14 CFR 135 Accident Occurred During -MANEUVERIN	G	Pas	-	0	1	0
Make/Model - CESSNA 207-A		CONTINENTAL 10-520-		Installed/A		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3800	Number Engines -	⊓ RECIP-FUEL INJECTED		tall Warnin	g System	- YES
No. of Seats - 6	Rated Power -					
-Environment/Operations Information						
Weather Data	Itinerary	n+		Proximity RPORT/STRIP		
Wx Briefing - NO RECORD OF BRIEFI Method - N/A	NG Last Departure Point FAIRBANKS, AK	nt	UFF AI	KPUKI/SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	HUSLIA,AK		•			
Wind Dir/Speed- 270/030 KTS				Ident -		
Visibility - 2.000 SM	ATC/Airspace	OCMBANIV (MED)	•	Lth/Wid -	•	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - 500 FT OB	Type of Flight Plan SCURED Type of Clearance			Surface - Status -		
Obstructions to Vision- FOG	Type Apch/Lndg		Ranway	Status	N/ A	
Precipitation - RAIN	.)					
Condition of Light - DAYLIGHT						
-Personnel Information Pilot-In-Command	Age - 25	Medical Certific	ato - VALID	MEDICAL -WA	TVEDS /I TN	AT T
Certificate(s)/Rating(s)	Biennial Flight Review	Fli	ght Time (H		IVERS/ LIP	.11 1
COMMERCIAL, CFI	Current - YES	Total -	2000	Last 24	Hrs -	5
SE LAND, ME LAND	Months Since - 1	Make/Model-	4	Last 30 Last 90	Days-	50
	Aircraft Type - C-20	7 Instrument- Multi-Eng -		Last 90	Days-	150
Instrument Rating(s) - AIRPLANE						
AIRPLANE COLLIDED WITH A MOUNTAIN AT TH	IE 2936 FOOT LEVEL. AT THE T	IME OF THE ACCIDENT	THE WEATHE	R WAS 500		
	HE AIRPLANE WAS ON A COMPAN					

File No. - 547 8/11/89 TANANA, AK A/C Reg. No. N6370H Time (Lcl) - 1130 ADT

Phase of Operation MANEUVERING

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

- 1. WEATHER CONDITION FOG
- 2. FLIGHT INTO KNOWN ADVERSE WEATHER INTENTIONAL PILOT IN COMMAND
- PSYCHOLOGICAL CONDITION PILOT IN COMMAND
- 4. WEATHER CONDITION RAIN
- 5. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- OVER CONFIDENCE IN PERSONAL ABILITY PILOT IN COMMAND
- 7. WEATHER CONDITION TURBULENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S IMPROPER INFLIGHT PLANNING AND DECISIONS. HE FLEW INTO WEATHER THAT WAS KNOWN TO BE ADVERSE, AND THE ENVIRONMENTAL CONDITIONS ADVERSELY AFFECTED HIS ABILITY TO SAFELY COMPLETE THE FLIGHT.

Type of Operation -BUSINESS Fire Crew O O O Accident Occurred During -LANDING	inios	Injuries			+ Damago	(IATION) Ainchaft	IEDAL AVITATIO	O-NONE (CENE		·Basic Informa
Type of Operation -BUSINESS Fire Crew 0 O O Flight Conducted Under -14 CFR 91 NONE Pass 0 O O Accident Occurred During -LANDING -Aircraft Information Make/Model - PIPER PA-12 Eng Make/Model - LYCOMING 0-320 ELT Installed/Accident Occurred During 1750 Rated Power - 160 HP -Environment/Operations Information Weather Data Was Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Dasic Weather - VMC Wind Dir/Speed- 160/005 KTS Visibility - 25.0 SM ACC/AIRSpeed 160/005 KTS Visibility - 25.0 SM ACC/AIRSpeed 160/005 KTS Allowest Sky/Clouds - CLEAR Destination Destination - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO Name Rated Power - Flight Time (Hours)			Fatal				ERAL AVIATIO	e-None (Gener	ting certificat	Type operat
Accident Occurred During -LANDING Aircraft Information Make/Model - PIPER PA-12				Crew				-BUSINESS	eration	Type of Ope
Aircraft Information Make/Model - PIPER PA-12	0 1	0 (0	Pass				-14 CFR 91	ducted Under	Flight Cond
Make/Model - PIPER PA-12								-LANDING	ccurred During	Accident Oc
Max Gross Wt - 1750 No. of Seats - 2 Rated Power - 160 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/005 KTS Wisibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Ceiling - 8000 FT OVERCAST Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Reted Power - RECIPROCATING-CARBURETOR Rated Power - 160 HP Airport Proximity OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP Airport Proximity OFF AIRPORT/STRIP OFF AIRPORT/STRIP Airport Proximity O									ormation	·Aircraft Info
Max Gross Wt - 1750 No. of Seats - 2 Engine Type - RECIPROCATING-CARBURETOR No. of Seats - 2 Rated Power - 160 HP Environment/Operations Information Weather Data Was Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/005 KTS Wind Dir/Speed- 160/005 KTS Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Ceiling - 8000 FT OVERCAST Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO Note of Sign and Time (Hours)	'Activated - YES/Y	Installed/Activat	ELT I)	COMING 0-320	Eng Make/Model - LYC	Er			
No. of Seats - 2 Rated Power - 160 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/005 KTS Wisibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Destination Alirport Proximity Airport Proximity OFF AIRPORT/STRIP SAME AS ACC/INC Destination Airport Data LOCAL Runway Ident - Information - Information - NONE ATC/Airspace Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Condition of Light - BAYLIGHT Personnel Information - NONE Condition of Light - DAYLIGHT Age - 44 Medical Certificate - VALID MEDICAL-NO Note Flight Time (Hours)	ng System - YES	Stall Warning Sys [†]	St			Number Engines - 1	N	ALL FIXED		
-Environment/Operations Information Weather Data			TOR	-CARBURE						
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- 160/005 KTS Runway Ident - I Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - I Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - O Lowest Ceiling - 8000 FT OVERCAST Type of Clearance - NONE Runway Status - I Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO I Certificate(s)/Rating(s) Riennial Flight Review Flight Time (Hours)					160 HP	Rated Power -	Ra 		ts - 2 	No. of Seat
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- 160/005 KTS Runway Ident - IV Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - IV Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - IV Lowest Ceiling - 8000 FT OVERCAST Type of Clearance - NONE Runway Status - IV Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO IV Certificate(s)/Pating(s) Riennial Flight Review Flight Time (Hours)								rmation	•	•
Method - N/A SAME AS ACC/INC Completeness - N/A Destination Airport Data Basic Weather - VMC LOCAL Wind Dir/Speed- 160/005 KTS Runway Ident - Noisibility - 25.0 SM ATC/Airspace Runway Lth/Wid - Nowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - Clear Complete Ceiling - 8000 FT OVERCAST Type of Clearance - NONE Runway Status - Destructions to Vision - NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO Note Flight Time (Hours)										
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 160/005 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - 8000 FT OVERCAST Type of Flight Plan - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Airport Data Auxay Ident - None Runway Lth/Wid - None Runway Surface - None Type Apch/Lndg - NONE Appe Apch/Lndg - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO None Flight Time (Hours)	. P	IRPORT/STRIP	OFF AIR					IRD OF BRIEFIN		
Basic Weather - VMC LOCAL Wind Dir/Speed- 160/005 KTS Runway Ident - Modern - 160 Medical Certificate - VALID MEDICAL-NO Medical Certificate (S)/Rating(s) Basic Weather - VMC LOCAL Wind Dir/Speed- 160/005 KTS Runway Ident - Modern - M		D-+-	1 D-							
Wind Dir/Speed- 160/005 KTS Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - Participate Age - 44 Medical Certificate - VALID MEDICAL-NO Note Processing Age - 44 Runway Surface - Participate Signal Flight Review Flight Time (Hours)		Jata	Airport Da							
Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - I Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - CLEAR Type of Clearance - NONE Runway Status - I Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	- N/A	v Ident - N/A	Punuav			LUCAL	,	; KIC		
Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - C Lowest Ceiling - 8000 FT OVERCAST Type of Clearance - NONE Runway Status - E Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT						ATC/Airspace	ATC/			
Lowest Ceiling - 8000 FT OVERCAST Type of Clearance - NONE Runway Status - I Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO NOT State (S)/Rating(S) Riennial Flight Review Flight Time (Hours)					- NONE	Type of Flight Plan -	Tv.	CLEAR	cy/Clouds -	Lowest Sk
Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO NOT Servicing (S) Riennial Flight Review Flight Time (Hours)										
Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO V Certificate(s)/Rating(s) Riennial Flight Review Flight Time (Hours)			•							
Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO V Certificate(s)/Rating(s) Riennial Flight Review Flight Time (Hours)								NONE	ation -	Precipita
Pilot-In-Command Age - 44 Medical Certificate - VALID MEDICAL-NO V								DAYLIGHT	n of Light -	Condition
Certificate(s)/Rating(s) Riennial Flight Review Flight Time (Hours)										
Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 3757 Last 24 F SE LAND, SE SEA Months Since - 14 Make/Model - 250 Last 30 F Aircraft Type - C-172 Instrument - 52 Last 90 F	10 WAIVERS/LIMIT				Medical Cer	e - 44	Age -			
CUMMERCIAL Current - YES 10tal - 3/5/ Last 24 SE LAND, SE SEA Months Since - 14 Make/Model - 250 Last 30 Aircraft Type - C-172 Instrument - 52 Last 90	24 11	Hours)	t lime (Ho	Fligh	~	ennial Flight Review	Biennial			
SE LAND, SE SEA MONTHS SINCE - 14 MAKE/MODEL - 250 LAST 30 L Aircraft Type - C-172 Instrument - 52 Last 90 L	24 Hrs - 6	Last 24 Hrs	3/5/	- ndo1-	lotal Maka/Ma	Current - YES	Curre			
	100 Days - 100	Last 30 Days	23U 52	nant-	Make/Mo	MODITIS STREE - 14	MONTI		J, 3E 3EA	SE LAND
Multi-Eng - UNK/NR Rotorcra	raft - LINK/ND	Potorcraft	K/ND	inerit Ena - IIN	1115 CT UIII	Africiant Type - C-1/2	AIrci			
MIGHT LING GINK/ INK KOTOL CLA	TATE ONE, INC	ROTOLCIAIT	K/ NK	ing un	Marti					
Instrument Rating(s) - AIRPLANE							•	- AIRPLANE	ment Rating(s)	Instrum

A/C Reg. No. N3669N

N Time (Lc1) - 1830 ADT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. AIRCRAFT CONTROL INADEQUATE PILOT IN COMMAND
- 2. AIRSPEED NOT MAINTAINED PILOT IN COMMAND
- 3. DISTANCE MISJUDGED PILOT IN COMMAND

File No. - 557 8/14/89

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE DURING LANDING, DUE TO MISJUDGEMENT OF AIRSPEED AND DISTANCE TO THE LANDING TOUCH-DOWN POINT.

RAINY PASS, AK

-Basic Information	AVIATION)	Ainamaft Damas			Todan	÷ 0.0	
Type Operating Certificate-NONE (GENERAL	AVIAIION)	Aircraft Damag SUBSTANTIAL	e	Fatal	Injur 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 - PIPER PA-18	Eng Make	/Model - LYCOMING	0-320	ELT			
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750		ngines - 1 ype - RECIPROCA			tall Warnin	g System	- NU
No. of Seats - 2	Rated Po			TUK			
-Environment/Operations Information							
Weather Data	Itinerary			Airport I			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Depa SAME AS	rture Point		OFF AI	RPORT/STRIP		
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	LOCAL	•		7, 1, po, c b.			
Wind Dir/Speed- UNK/NR						N/A	
Visibility - 30.0 SM	ATC/Airspac				Lth/Wid -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling - 10000 FT BROKE		light Plan - NONE			Surface - Status -	N/A N/A	
Obstructions to Vision- NONE		/Lndg - FORCE	D LANDING	Runway	status -	N/ A	
Precipitation - NONE	Type Apon	- Enag	D EANDING				
Condition of Light - DAYLIGHT							
-Personnel Information	4.7	Madia	l Certificat	- EVDID	-D		
	Age - 47 Biennial Flight			t Time (H			
STUDENT	Current		tal -		Last 24	Hrs -	4
	Months Sinc		ke/Model-	450	Last 30	Days-	25
	Aircraft Ty	oe - N/A In	strument- lti-Eng -	0	Last 90 Rotorcr	Days-	100
		Mu	lti-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE							
AIRPLANE RAN OUT OF FUEL. THE STUDENT PILC	T THEN ATTEMPTE	O AN EMERGENCY LAN	DING ON A RO	AD. AFTER	THE LANDIN	G	
L-OUT THE AIRPLANE STRUCK A ROW OF TREES. T	HE STUDENT PILO	T WAS OPERATING TH	E AIRPLANE W	ITH BOTH	AN EXPIRED		

File No. - 554 8/22/89 MCGRATH,AK A/C Reg. No. N2O2T Time (Lcl) - 1151 ADT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL
Phase of Operation MANEUVERING

Finding(s)

1. FLUID,FUEL - EXHAUSTION
2. FUEL CONSUMPTION CALCULATIONS - NOT UNDERSTOOD - PILOT IN COMMAND
3. QUALIFICATION - PILOT IN COMMAND
4. IN-FLIGHT PLANNING/DECISION - NOT PERFORMED - PILOT IN COMMAND
5. IMPROPER INITIAL TRAINING - PILOT IN COMMAND

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 ON GROUND COLLISION WITH OBJECT
LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S IMPROPER FUEL CONSUMPTION CALCULATIONS, IMPROPER INFLIGHT PLANNING, AND DECISIONS.

Basic Information Type Operating Certificate-NONE (GENERA)	AVIATION) Aircra	ft Damage		Injuri	0.5	
Type operating certificate None (GENERAL	DESTR		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 177B	Eng Make/Model - L			Installed/Ad		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2500	Number Engines - Engine Type - R	1 ECIPROCATING-CARBUR		tall Warning	g System	- YES
No. of Seats - 4	3 71	180 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING		t	OFF AI	RPORT/STRIP		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	ALBERTVILLE, AL		Devision	T -1 4	NI / A	
Wind Dir/Speed- 230/005 KTS Visibility - 10.0 SM	ATC/Airspace			Ident - Lth/Wid -	N/A	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg		,			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information	_					
Pilot-In-Command	Age - 52				VERS/LIM	IT
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Review Current - YES		ht Time (H	Last 24	Unc -	3
SE LAND	Months Since - 6			Last 24	Days-	6
SE ENID	Current - YES Months Since - 6 Aircraft Type - C-172	Make/Model- Instrument- U	NK/NR	Last 90	Days-	17
		Multi-Eng - U	NK/NR	Rotorcra		K/NR
Instrument Rating(s) - NONE						
AIRPLANE WAS LAST "TOPPED OFF" WITH FUEL (ON 1/28/89. THEN WAS FLOWN	ON 4 FLTS FOR A TO	TAL OF 5 5	HRS DRG TH	HAT TIME	
DDITIONAL 20 GAL OF FUEL WAS ADDED. BEFORE						
TO A NEARBY ARPT TO REFUEL. SHORTLY AFTER						

File No 4	72 2/11/89	ONEONTA, AL	A/C Reg. No. N34306	Time (Lc1) - 0930 CST
Occurrence #1 Phase of Operation		OWER(TOTAL) - NON-MEC	HANICAL	
Finding(s) 1. FLUID,FUEL - EX 2. AIRCRAFT PREF		- PILOT IN COMMAND		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGEI	NCY		
Occurrence #3 Phase of Operation		ION WITH OBJECT		
Finding(s) 3. OBJECT - TREE(S)			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT BY THE PILOT AND FUEL EXHAUSTION. TREES CONTRIBUTED TO THE AIRCRAFT DAMAGE.

File No 598 2/25/89 JACK	KSONVILLE, AR	A/C Reg.	No. N7580D	Т	ime (Lcl) -	1515 CST	
Basic Information Type Operating Certificate-AGRICULTURA	AL AIRCRAFT	Aircraft Da DESTROYED		Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -CRUISE		Fire NONE	Crew Pass	1 1	0	0	0
Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2		•	OCATING-CARBURE	STOR	Installed/A tall Warnir	ng System	- NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A	PERRY,AR Destinatior				Proximity RPORT/STRIF Data		
Basic Weather - VMC Wind Dir/Speed- 220/012 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 2500 FT SC/ Lowest Ceiling - 4500 FT BRC Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	LOCAL ATC/Airspace ATTERED Type of Fi DKEN Type of Ci Type Apch/	ight Plan - NO earance - NO	NE	Runway Runway	Lth/Wid - Surface -	•	
Personnel Information Pilot-In-Command	Age - 40	Med	ical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Fligh	nt Time (F	lours)	•	
COMMERCIAL SE LAND, ME LAND	Current Months Since Aircraft Typ	•	Total - Make/Model- UN Instrument- UN Multi-Eng - UN	IK/NR IK/NR	Last 30 Last 90	Hrs - UN Days- UN Days- UN aft - UN	IK/NR IK/NR
Instrument Rating(s) - AIRPLANE							
Narrative O WITNESSES HEARD A LOUD NOISE FROM THE AGILED. SUBSEQUENTLY, THE ACFT SPUN TO THE GRWARD LIFT STRUT HAD FAILED, APRX 6 INCHESE INSIDE OF THE STRUT HAD BECOME CORRODED GE (LESS THAN O.OO1 INCH). THE THICKNESS GIDE SURFACE SHOWED THE PRESENCE OF A CORFULD BE FND WHERE SEVERE CORROSION HAD OCCURIES SHOWED THAT AD 77-03-08 & PIPER SVC S POSITIVE FOR ALCOHOL (O.04%), BUT THERE	GND & CRASHED IN A S FROM WHERE IT WAS & THE STRUT HAD FA DF THE NON-CORRODED ROSION INHIBITOR (V JRRED. TWO FAINT LI BULLETIN #528B HAD	WOODED AREA. AS ATTACHED TO THE TO	N EXAM OF THE WHE FUSELAGE. A A WHERE ITS WALE E WALL WAS 0.38 NON-CORRODED A WATER MARKS WE WITH. A TOXICO	RECKAGE R METALLURG L HAD COR INCH. A REAS. HOW ERE FND IN	EVEALED THE SICAL EXAM REPODED TO A CHEMICAL TE VEVER, NO IN I THE STRUT EK OF THE PL	LEFT EVEALED KNIVE ST OF THE HIBITOR LOG BOOK	:

A/C Reg. No. N7580D

Time (Lcl) - 1515 CST

Occurrence #1
Phase of Operation

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION CRUISE

JACKSONVILLE, AR

Finding(s)

1. MAINTENANCE, SERVICE BULLETINS - INADEQUATE - MANUFACTURER

2/25/89

- 2. WING, BRACING STRUT CORRODED
- 3. WING SEPARATION

File No. - 598

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: SEVERE CORROSION OF THE LEFT FORWARD WING LIFT STRUT WHICH RESULTED IN THE IN-FLIGHT SEPARATION OF THE LEFT WING. A CONTRIBUTING FACTOR WAS INADEQUACY OF THE APPLICABLE SERVICE BULLETIN.

File No 519 3/17/89 HET	H,AR	A/C Reg	. No. N4968X]	ime (Lcl) -	0945 CDT	
Basic Information Type Operating Certificate-AGRICULTUR Type of Operation -AERIAL APF		Aircraft SUBSTANT Fire	IAL Cr	Fatal	Injur Serious O	ies Minor O	None 1
Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING	7	ON GROUN	D Pa	iss O	0	0	0
Aircraft Information Make/Model - ROCKWELL INTERNATIONA Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 6000 No. of Seats - 1		Engines - 1 Type - TURB			Installed/Ad Stall Warning		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A	HETH, A			ON AIF			
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 190/018 KTS Visibility - 9.0 SM Lowest Sky/Clouds - 3000 FT SC Lowest Ceiling - 25000 FT OV Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		ıce	NONE	Runway Runway	/ Ident - / Lth/Wid - / Surface -		₹F
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 47 Biennial Fligh		edical Certifi	cate - VALIC		WAIVERS/I	LIMIT
COMMERCIAL SE LAND	Current Months Sir	- YES	Total Make/Model- Instrument- Multi-Eng	UNK/NR UNK/NR	Last 30 Last 90	Hrs - UNI Days- UNI Days- UNI aft - UNI	
Instrument Rating(s) - UNK/NR							
Instrument Rating(s) - UNK/NRNarrative HILE PERFORMING AN AERIAL APPLICATION OPER JOT TAILWIND, THE AIRCRAFT NOSED DOWN. THE ROPELLER AND TURBINE ENGINE. THE ACFT SUBS	PROPELLER STRUCK	THE RUNWAY, W	HICH CAUSED EX	TENSIVE DAMA	GE TO THE	 D	

File No. - 519 3/17/89 HETH, AR A/C Reg. No. N4968X Time (Lc1) - 0945 CDT Occurrence #1 ON GROUND ENCOUNTER WITH WEATHER Phase of Operation LANDING - ROLL Finding(s) 1. WEATHER CONDITION - GUSTS 2. WEATHER CONDITION - TAILWIND 3. AIRCRAFT HANDLING - MISJUDGED - PILOT IN COMMAND 4. JUDGEMENT - POOR - PILOT IN COMMAND 5. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 NOSE DOWN Phase of Operation LANDING - ROLL Occurrence #3 FIRE Phase of Operation LANDING - ROLL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AIRCRAFT CONTROL NOT MAINTAINED BY THE PILOT IN COMMAND DUE TO LANDING IN A TAILWIND OF EXCESSIVE VELOCITY WHICH THE PILOT MISJUDGED OR FAILED TO RECOGNIZE.

 -Basic Information Type Operating Certificate-NONE (GENERA) 	L AVIATION) A	ircraft Damage			Injur	ies	
<i>y</i> , , , , , , , , , , , , , , , , , , ,		SUBSTANTIAL		Fatal		Minor	None
Type of Operation -PERSONAL		ire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	(ON GROUND	Pass	0	Ο	0	1
Accident Occurred During -LANDING							
-Aircraft Information							
Make/Model - BEECH BE-55		I - CONTINENTAL	IO-520-E		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines			S	tall Warnir	ng System	n - YES
Max Gross Wt - 5100		- RECIP-FUEL II	NJECTED				
No. of Seats - 6	Rated Power	- 300 HP					
-Environment/Operations Information							
Weather Data	Itinerary	D. C.			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	•	Point		ON AIR	PURT		
Method - N/A Completeness - N/A	LANCASTER,TX Destination			Airport D	2+2		
Basic Weather - VMC	HOT SPRINGS,	ND.		HOT SP			
Wind Dir/Speed- 180/009 KTS	TIOT SERTINGS,	418				- 23	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight	Plan - IFR			Surface -		
Lowest Ceiling - NONE	Type of Clearar	nce - IFR		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 - 63				ALID MEDICA	N L	
Certificate(s)/Rating(s) PRIVATE	Biennial Flight Revie		_	ht Time (H 2500		Hrs - L	INIZ /NID
SE LAND, ME LAND	Months Since - 3		Model-	700	Last 30) Dave-	INK/NR
SE LAND, ME LAND	Aircraft Type - I	·	ument-	175	Last 90	Days C	INK /NR
	All clart Type	- · · · · · · · · · · · · · · · · · · ·	-Eng -	700	Rotorca	raft - l	JNK/NR
		Marti	2.19	, 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,
Instrument Rating(s) - AIRPLANE							
-Narrative							
N REACHING HIS DESTINATION APT, THE PLT SA							
IVE RUNWAY. WHEN HE RETURNED FOR LDG, HE S.							
E. A SMALL FIRE ERUPTED NEAR THE FUEL QUIC	K DRAIN. BUT IT WAS OU	JICKLY EXTINGUIS	HED. NO	MECHANICAL	MALFUNCTIO	N	

File No. - 514 4/22/89 HOT SPRINGS, AR A/C Reg. No. N7739R Time (Lc1) - 1300 CDT Occurrence #1 GEAR NOT EXTENDED Phase of Operation LANDING Finding(s) 1. WHEELS UP LANDING - INADVERTENT - PILOT IN COMMAND 2. DIVERTED ATTENTION - PILOT IN COMMAND 3. CHECKLIST - NOT FOLLOWED - PILOT IN COMMAND 4. HABIT INTERFERENCE - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation LANDING - FLARE/TOUCHDOWN Occurrence #3 FIRE Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. FUEL SYSTEM, DRAIN - FIRE ----Probable Cause----

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

A WHEELS UP LANDING WAS PERFORMED BY THE PILOT IN COMMAND, DUE TO THE INTERRUPTED LANDING AND GO-AROUND. A
PSYCHOLOGICAL TRAFFIC PATTERN HABIT INTERFERENCE MIND SET INTERFERED WITH THE PILOTS ABILITY TO PERFORM THE NORMAL
FUNCTIONS REQUIRED BY THE LANDING CHECK LIST.

File No 520	5/08/	89 MONT	ROSE, AR	A/C Re	g. No. N4607C		Т	ime (Lcl) -	0900 CDT	
Basic Information Type Operating Co Type of Operation Flight Conducted Accident Occurred	ertificate-Æ n -Æ Under -	ERIAL APPL 4 CFR 137		Aircraft SUBSTAN Fire NONE	ITIAL	Crew Pass	Fatal O O	Injur Serious O O	ies Minor O O	None 1 O
Aircraft Information Make/Model - William Landing Gear - Towns Wit - No. of Seats -	VEATHERLY 62 TAILWHEEL-AL		Num Eng	• •				Installed/Ad tall Warning		
Method Completeness Basic Weather Wind Dir/Speed	- NO RECORD - N/A - N/A - VMC - 130/009 KT - 20.0 S uds - 10 - NO - NO - NO - NO	OF BRIEFIN S M DOOO FT SCA NE NE	MO Desti LO ATC/Ai TTERED Type Type	Departure Point NTROSE,AR nation CAL rspace of Flight Plan - of Clearance -			ON AIR rport Do Runway Runway Runway Runway	ata Ident - Lth/Wid - Surface -		RF
Personnel Informat Pilot-In-Command Certificate(s)/F COMMERCIAL SE LAND,ME LA	Rating(s)		Biennial F Curren Months	light Review		Flight - 98 1- UNK/ t- UNK/	Time (H OO NR NR	ours) Last 24 Last 30 Last 90	Hrs - UN Days- UN	IK/NR IK/NR IK/NR
Instrument Ra	ating(s) -	NONE								
Narrative HE PILOT SAID THAT WHI IRECTIONAL CONTROL. HE OST ACCIDENT INVESTIGA CCIDENT. THE PLT DID N	E OVERRAN TH ATION FAILED	IE AIRSTRIP) TO REVEAL	AND COLLIDE ANY MALFUNC	D WITH A DITCH CA	USING SUBSTAN	TIAL DA	MAGE TO	THE ACFT.	: - -	

File No. - 520 5/08/89 MONTROSE, AR A/C Reg. No. N4607C Time (Lc1) - 0900 CDT

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

Finding(s)

1. WEATHER CONDITION - TAILWIND

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

3. WRONG RUNWAY - SELECTED - PILOT IN COMMAND

4. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING - ROLL

Finding(s)

5. TERRAIN CONDITION - DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT IN COMMAND TO MAINTAIN CONTROL OF THE AIRCRAFT DURING LANDING ADVERSELY AFFECTED BY THE EXISTANCE OF A TAILWIND OF AVERAGE PROPORTIONS.

File No 521 5/27/89 STR	ONG, AR	A/C Reg.	No. N18307	Т	ime (Lcl) -	1230 CDT	
Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Da	mage		Injur	ies	
		SUBSTANTIA	L _	Fatal			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 - BEECH V35	Eng Make/M	lodel – CONTIN	ENTAL IO-520-BA		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng	ines - 1		S	tall Warnin	g System -	YES
Max Gross Wt - 3000	Engine Typ	e - RECIP-	FUEL INJECTED				
No. of Seats - 6	Rated Powe	r - 285	HP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - FSS	Last Depart	ure Point		OFF AI	RPORT/STRIP		
Method - ACFT RADIO	NASHVILLE	,TN					
Completeness - FULL	Destination	•		Airport D	ata		
Basic Weather - VMC	EL DORADO	ΔR					
Wind Dir/Speed- 020/004 KTS	22 3030	, , , , , ,		Runway	Ident -	N/A	
Visibility - 4.000 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - N/A		ght Plan - IF	D			GRAVEL	
Lowest Ceiling - 1200 FT BF		earance - IF				DRY	
	· · · · · · · · · · · · · · · · · · ·	ndg - FC		Runway	status -	DKI	
	Type Apch/L	nag - Fu	RCED LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 48		ical Certificat			WAIVERS/L	TMII
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R			t Time (H	•		_
PRIVATE	Current	- YES	Total -		Last 24		5
SE LAND	Months Since	- 14	Make/Model- Instrument-	344	Last 30	Days-	14
	Aircraft Type	- BE-35			Last 90	Days-	29
			Multi-Eng - UN	K/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - AIRPLANE							
		~					
Narrative BOUT 25 MILES FROM DESTINATION APT, THE PL	T CAID THE ENGINE OF	ITT HE CHITCH	ED EDOM EMDIV L	CET TANK	TO THE DIOL	т	
						1	
ANK, WHICH STILL INDICATED 1/2 TO 3/4 FULL							
500 AGL, ELECTED TO MAKE AN EMERGENCY LDG.							
UBSTANTIAL DAMAGE. THE PLT SAID THAT THE L						,	
UE TO PREVIOUS LEAKS, BUT DOCUMENTATION OF	THE REPLACEMENT WAS	NOT FOUND BY	THE INVESTIGAT	INE AUTHO	RITIES.		

Time (Lcl) - 1230 CDT File No. - 521 5/27/89 STRONG, AR A/C Reg. No. N18307 Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. FLUID, FUEL - STARVATION 2. FUEL CONSUMPTION CALCULATIONS - MISJUDGED - PILOT IN COMMAND 3. FUEL SYSTEM, TANK - LEAK 4. DOCUMENTATION - CONFLICTING - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: ENGINE FAILURE DUE TO FUEL STARVATION.

File No 473 6/06/89 F	PINE BLUFF, AR	A/C Reg. No. N63535	7	Time (Lcl) - 2315	CDT
Basic Information Type Operating Certificate-NONE (GE	•	rcraft Damage JBSTANTIAL	Fatal	Injuries Serious Mino	r None
Type of Operation -PERSONAL	. Fir	re Cre	w O	0 0	1
Flight Conducted Under -14 CFR S Accident Occurred During -LANDING)1 NC	DNE Pas	s O	0 0	1
Aircraft Information					
Make/Model - CESSNA 172	Eng Make/Model	- LYCOMING 0-320-D2J	ELT	Installed/Activate	ed - YES/YE
Landing Gear - TRICYCLE-FIXED	Number Engines	- 1	9	Stall Warning Syst	em - YES
Max Gross Wt - 2400	Engine Type	- RECIPROCATING-CARBL	RETOR	- ,	
No. of Seats - 4	Rated Power	- 160 HP			
Environment/Operations Information					
Weather Data	Itinerary		Airport	Proximity	
Wx Briefing - NO RECORD OF BRIE	FING Last Departure F	Point	ON AIR	RPORT	
Method - N/A	ADDISON, TX				
Completeness - N/A	Destination		Airport [ata	
Basic Weather - VMC	SAME AS ACC/IN	IC	GRIDER	R FIELD	
Wind Dir/Speed- CALM			Runway	/ Ident - 17	
Visibility - 10.0 SM	ATC/Airspace		Runway	/ Lth/Wid - 5998	/ 150
Lowest Sky/Clouds - 25000 FT	SCATTERED Type of Flight F	Plan - IFR	Runway	Surface - ASPHA	LT
Lowest Ceiling - NONE	Type of Clearand			Status - DRY	
Obstructions to Vision- NONE		- ILS-LOCALIZER	•		
Precipitation - NONE	<i>,</i> , , , , , , , , , , , , , , , , , ,				
Condition of Light - NIGHT(DAR	eK)				
Pilot-In-Command	Age - 25	Medical Certific	ate - VALI	MEDICAL-NO WAIVE	RS/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	v Fli	ght Time (F	lours)	•
PRIVATE	Current - YE		•	Ĺast 24 Hrs -	3
SE LAND	Months Since - 22	Make/Model-	20	Last 30 Days-	25
*	Aircraft Type - UN	•	53	Last 90 Days-	44
		Multi-Eng -	0	Rotorcraft -	0
			-		•
Instrument Rating(s) - AIRPLAN	IE :				
Narrative					
E PLT SAID THAT DURING AN ILS RWY 17 AF	DIVAL AT NIGHT HE WAS LINAS	RIE TO ACTIVATE THE DI	NWAY LICHTS	RV KEVING HIS	
DIO. ALSO, HE NOTED THAT THE ROTATING E					
S ON THE CENTERLINE OF THE LOCALIZER, S					
FT OF THE RUNWAY ON SOFT TERRAIN WHICH					
IE ACCIDENT, THE ARPT MANAGER CHECKED TH					
L ACCIDENT, THE ARPT MANAGER CHECKED IF	IL KADIO ACIIVAJED KUNWAY LI	IGILIS AND FUUND ITEM I	U WUKK PKUI	LNLT.	
			· 		

File No. - 473 6/06/89 PINE BLUFF, AR A/C Reg. No. N63535 Time (Lcl) - 2315 CDT

IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. AIRPORT FACILITIES, ROTATING BEACON NOT OPERATING
- 3. AIRPORT FACILITIES, RUNWAY EDGE LIGHTS NOT OPERATING
- 4. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 5. FLIGHT TO ALTERNATE DESTINATION NOT PERFORMED PILOT IN COMMAND
- 6. TERRAIN CONDITION SOFT
- 7. PROPER ALIGNMENT NOT ATTAINED PILOT IN COMMAND

NOSE OVER Occurrence #2 Phase of Operation LANDING

----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 BY CONTINUING THE APPROACH WHEN THE RUNWAY LIGHTS DID NOT ACTIVATE. CONTRIBUTING FACTORS WERE: DARK NIGHT AND SOFT TERRAIN.

Basic Information Type Operating Certificate-AGRICUL	TURAL AIRCRAFT				Inju		
		SUBSTANTIAL		Fatal			None
Type of Operation -AERIAL		Fire	Crew		0	1	0
Flight Conducted Under -14 CFR Accident Occurred During -LANDING		NONE	Pass	_	· ·	· ·	Ο
Aircraft Information							
Make/Model - GULFSTREAM-SCHWEIZ		lode1 - P&W R-1340-	- AN 1		Installed/		
Landing Gear - TAILWHEEL-ALL FIXE		ines - 1	TNO CARRUD		tall Warnii	ng System	- YES
Max Gross Wt - 5200 No. of Seats - 1	Engine Typ Rated Powe	e - RECIPROCATI r - 600 HP	ING-CARBUR	ETUR			
Environment/Operations Information Weather Data	 Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRI		ure Point		ON AIR			
Method - N/A	WYNNE, AR						
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 190/006 KTS						- 27	
*101B111Cy 0.0 0.1	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - 12000 FT					Surface		URF
Lowest Ceiling - 18000 FT Obstructions to Vision- NONE			TOD	Runway	Status	- DRY	
Precipitation - NONE	Type Apch/L	.ndg - FULL ST	IUP				
Condition of Light - DAYLIGHT	r						
Personnel Information							
Pilot-In-Command	Age - 31			te - VALID		O WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight R	Review	Flig	ht Time (H	ours)		_
COMMERCIAL	Current	- YES Tota	al -	2500 175	Last 2	4 Hrs -	8
SE LAND, ME LAND	Months Since	- 6 Make		175	Last 30 Last 90	Days-	
	Aircraft Type		trument- ti-Eng -		Last 90	J Days-	200
		Mart	ci Eng -	200			
Instrument Rating(s) - AIRPLA	NE						
Narrative							
	. APPLICATION OPERATION.	THE PILOT STATED	THAT AFTE	R RETURNIN	G TO THE S	TRIP	

File No. - 469 6/07/89 WYNNE, AR A/C Reg. No. N8063K Time (Lcl) - 0930 CDT

Occurrence #1 Phase of Operation LANDING - ROLL

NOSE OVER

Finding(s)

- 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION ROUGH/UNEVEN
- 2. UNSUITABLE TERRAIN SELECTED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: UNSUITABLE TERRAIN SELECTED BY THE PILOT. A CONTRIBUTING FACTOR WAS THE ROUGH/UNEVEN LANDING AREA.

File No 565 6/28/89 LONOK	E,AR A/C F	Reg. No. N3653M	Т	ime (Lc1)	- 1415 CD	Т
Basic Information Type Operating Certificate-AGRICULTURAL	AIRCRAFT Aircraf	t Damage	Fatal	Injur Serious	ries Minor	None
Type of Operation -AERIAL APPLI		Cre		0	0	1
Flight Conducted Under -14 CFR 137 Accident Occurred During -LANDING	NONE	Pas	s O	0	0	Ö
Make/Model - AIR TRACTOR 301 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 5000 No. of Seats - 1	Eng Make/Model - P Number Engines - F Engine Type - RE Rated Power -		5	Installed/A tall Warnir		
Environment/Operations Information						
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point LONOKE,AR	:		Proximity RPORT/STRIF	>	
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport D	ata		
Wind Dir/Speed- UNK/NR			Runway	Ident -	- N/A	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan		,	Surface -		
Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Clearance Type Apch/Lndg		Runway	Status -	- WET	
Personnel Information					_ ,	
Pilot-In-Command	Age - 38				IVERS/LI	MIT
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Biennial Flight Review Current - YES	Total -	ght Time (F			5
SE LAND	Months Since - 5	Make/Model-	4000	Last 24) Dave- + ui.e -	100
JE EAND	Months Since - 5 Aircraft Type - C-150	Instrument-	INK/NR	Last 90	Days Days-	300
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Make/Model- Instrument- Multi-Eng -	JNK/NR	Rotorce	aft - UI	NK/NR
Instrument Rating(s) - NONE						
Narrative ORTLY AFTER TAKEOFF, DURING AN AERIAL APPLI WER. HE SAID THAT HE BEGAN TO DUMP HIS LOAD RBORNE, SO HE ATTEMPTED TO MAKE AN EMERGENC RUCK AND KILLED, THEN THE ACFT SLID TO A ST REVEAL THE CAUSE OF THE ENGINE FAILURE.	, BUT THE AIRCRAFT WAS NOT Y LANDING IN A FARM PASTURE	DEVELOPING ENOUGH	POWER TO S	COW WAS)	

File No 5	65 6/28/89 LONOKE,AR	A/C Reg. No. N3653M	Time (Lc1) - 1415 CDT
	LOSS OF ENGINE POWER TAKEOFF - INITIAL CLIMB		
Finding(s) 1. UNDETERMINED 2. LOAD JETTISON -	ATTEMPTED - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Occurrence #3 Phase of Operation	ON GROUND COLLISION WITH OBJECT LANDING		
Finding(s) 3. OBJECT - ANIMAL	(s) ⁻		
Probable Cause			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PARTIAL FAILURE OF THE POWER-PLANT FOR UNDETERMINED REASONS.

Type Operating Certificate-AGRICULTU	RAL AIRCRAFI	Aircraf	t Damage			Injuri	es	
,, ,		SUBSTA	•	Fa		erious	Minor	None
Type of Operation -AERIAL AP Flight Conducted Under -14 CFR 13	PLICATION	Fire		Crew	0	0	0	1
Accident Occurred During -LANDING	17	NONE	۲	ass	0	0	0	0
rcraft Information								
Make/Model - GRUMMAN G-164B	Eng	Make/Model - P&	W R-1340-AN1		ELT Ins	talled/Ac	tivated	- NO -N/
Landing Gear - TAILWHEEL-ALL FIXED	Nun	ber Engines - 1			Stal	l Warning	System	- YES
Max Gross Wt - 5600		jine Type - RE		RBURETOR				
No. of Seats - 1	Rat	ed Power -	600 HP					
nvironment/Operations Information				A *	D			
eather Data Wx Briefing - NO RECORD OF BRIEF	Itiner	ary Departure Point			port Pro: FF AIRPO			
Wx Briefing - NO RECORD OF BRIEF Method - N/A		r Departure Point DRTLAND,AR		U	FF AIKPU	KI/ SIKIP		
Completeness - N/A		nation		۸irn	ort Data			
Basic Weather - VMC		CAL			EED, PVT			
Wind Dir/Speed- 010/006 KTS					unway Id		18	
Visibility - 7.0 SM	ATC/Ai	rspace		R	unway Ltl	n/Wid -	2200/	30
Lowest Sky/Clouds - 20000 FT T		of Flight Plan				rface -		
Lowest Ceiling - NONE		e of Clearance			unway Sta	atus -	WET	
Obstructions to Vision- NONE	Туре	Apch/Lndg	- FORCED LANDIN	IG				
Precipitation - NONE Condition of Light - DAYLIGHT								
ersonnel Information Pilot-In-Command	∆ae -	58	Medical Certif	icaté -	VALTD MEI	OTCAL-WAT	VFRS/LIN	ITT
Certificate(s)/Rating(s)	Biennial F	58 light Review	F	liaht Ti	me (Hour	5)	,	
COMMERCIAL	Cuppor	+ - VEC	Total	- 19400		Last 24	Hrs -	4
SE LAND	Months	Since - 7 oft Type - C-182	Make/Model Instrument	- 10000		Last 30	Days-	75
	Aircra	ift Type - C-182						
			Multi-Eng	- UNK/NR		Rotorcra	ft - UN	IK/NR
Instrument Rating(s) - NONE								
CONDUCTING AN AERIAL APPLICATION OPE	RATION, THE PL	T SAID THAT HE E	XPERIENCED A GR	RADUAL LO	SS OF PO	WER. HE		
		BASE AIRFIELD. E						

Time (Lc1) - 0730 CDT File No. - 558 7/28/89 PORTLAND, AR A/C Reg. No. N8116K

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. ENGINE ASSEMBLY, CYLINDER - CRACKED

- 2. LOAD JETTISON PERFORMED PILOT IN COMMAND
- 3. ENGINE ASSEMBLY, CYLINDER FAILURE, TOTAL
- 4. EMERGENCY PROCEDURE INITIATED PILOT IN COMMAND

FORCED LANDING Occurrence #2

Phase of Operation DESCENT - EMERGENCY

----Probable Cause----

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

-Basic Information	CANCED AL. ALVI ATTONI)	1 i 6 + D			T 1		
Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft Dama SUBSTANTIAL	ge	Fatal	Inju Serious	nies Minor	None
Type of Operation -PERSONA	1	Fire	Crew		0	O	1
Flight Conducted Under -14 CFR		NONE	Pass	-	0	0	1
Accident Occurred During -LANDING				· ·	· ·	· ·	
-Aircraft Information							
Make/Model - PIPER PA-18		Model - LYCOMING	0-320		Installed/		
Landing Gear - TAILWHEEL-ALL FIXE		gines - 1			tall Warni	ng System	- YES
Max Gross Wt - 1625	Engine_Ty			ETOR			
No. of Seats - 2	Rated Pow	er - 150 H	P 				
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRI	Itinerary	tura Daint			Proximity		
Method - N/A	EFING Last Depar PRESCOTT			ON AIR	PURI		
Completeness - N/A	Destination	•		Airport [2+2		
Basic Weather - VMC	SAME AS			PULLIA			
Wind Dir/Speed- 050/005 KTS	JAME AS	A00/ 1110				- 03	
Visibility - 30.0 SM	ATC/Airspace				Lth/Wid		150
Lowest Sky/Clouds - 5000 FT	SCATTERED Type of F1	ight Plan - NONE			Surface ·		
Lowest Ceiling - 22000 FT		earance - NONE				- DRY	
	Type Apch/	Lndg - FULL	STOP				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information	4		1.0		MEDICAL		4.7.7
Pilot-In-Command Certificate(s)/Rating(s)	Age - 20 Biennial Flight		al Certifica	te - VALIL ht Time (F		41 AEK2\ [1]	MITI
COMMERCIAL	Current		otal -		Last 24	1 Hnc	0
SE LAND, SE SEA			ake/Model-	12	Last 3		25
GLIDER			nstrument-	12	Last 90		82
	,,,, o, a, c , , , p		ulti-Eng -	. 1	2451 5	Juyo	32
Instrument Rating(s) - NONE							
PLT RPRTD THAT WHEN HE WAS ON FINAL	APCH TO LAND THERE WA	S A LEADJET REHT	ND HIM ON A	5 MILE EIN	IAI ADCH HI	STATED	
T HE MADE A NORMAL LANDING, THEN STEE							
ER REACHING THE LEFT SIDE, HE WAS UNA							
, RATHER THAN RISK GROUND LOOPING THE	ACIT. ALTER DEPARTING	THE KWI, THE AC	I LITTLICE S				

File No. - 415 2/08/89 FLAGSTAFF,AZ A/C Reg. No. N9007S Time (Lc1) - 1514 MST

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL

Finding(s)

1. TERRAIN CONDITION - SNOW COVERED

- 2. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND
- 4. SELF-INDUCED PRESSURE 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:
THE PILOT'S FAILURE TO MAINTAIN PROPER RUNWAY ALIGNMENT WHILE EXPEDITING TO EXIT THE RUNWAY. HIS LACK OF EXPERIENCE
IN THIS TYPE OF AIRCRAFT, SELF-INDUCED PRESSURE & THE SNOW COVERED TERRAIN WERE CONTRIBUTING FACTORS.

File No 532 2/19/89 TUCSON	N, AZ A/C I	Reg. No. N767AA	Т	ime (Lcl) -	- 0840 MST	
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL	L AVIATION) Aircra NONE Fire	ft Damage Crew	Fatal O	Injur Serious O	ries Minor O	None 1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	1	Ο	3
Aircraft Information Make/Model - AEROSTAR RAVEN 560 Landing Gear - N/A Max Gross Wt - 2400 No. of Seats - UNK/NR	Eng Make/Model - N, Number Engines - N, Engine Type - N, Rated Power - N,	/A /A		Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A	SAME AS ACC/INC Destination			Proximity RPORT/STRIP ata)	
Basic Weather - VMC Wind Dir/Speed- 190/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg		Runway Runway	Ident - Lth/Wid - Surface - Status -	DIRT	
Personnel Information Pilot-In-Command	Age - 54	Medical Certificat		MEDICAL -WA	.TVERS/LIM	тт
	Biennial Flight Review		it Time (Ho		VI A F IV 3\ F I IAI	1
COMMERCIAL, ATP SE LAND, ME LAND FREE BALLOON	Current - YES Months Since - 2 Aircraft Type - B-767		0000 IK/NR IK/NR IK/NR	Last 24 Last 30 Last 90 Rotorcr	Hrs - UN Days- UN Days- UN raft - UN	K/NR K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANE						
THE PILOT OF A AEROSTAR RAVEN 560 (BALLOON), INTERESULTED IN A HARD LANDING NEAR TUCSON, ARIZON FINALLY COMING TO REST. THE PILOT SAID THAT, GROUND LEVEL WHEN I ENCOUNTERED A SEVERE DOWN PASSENGERS TO PREPARE FOR A FIRM LANDING. AFTICAL AIRBORNE, WE RETURNED AND STRUCK THE GROUND ACCOUNTED WHILE WE WERE DRAGGING ACROSS THE DESERT"SINGROUND" THE PILOT REPORTED THAT THERE WERESTHE ACCIDENT.	NA. THE BALLOON COLLIDED W "I WAS PREPARING FOR LANDII DRAFT OF APPROXIMATELY 100 ER HITTING THE GROUND, DRAG GAIN"ONE ELEVEN YEAR OLI HE [THIS PASSENGER] SUFFER	ITH THE TERRAIN SEVE NG AND AT APPROXIMAT DO FEET PER MINUTE. GGING APPROXIMATELY D PASSENGER JUMPED O ED A BROKEN ARM UPON	RAL TIMES ELY 40 FER I INSTRUCT 10 YARDS A OUT OF THE	BEFORE T ABOVE TED THE AND GOING BALLOON THE		

File No. - 532 2/19/89 TUCSON, AZ A/C Reg. No. N767AA Time (Lc1) - 0840 MST

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation DESCENT - NORMAL

Finding(s)

1. WEATHER CONDITION - DOWNDRAFT

2. IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND

Occurrence #2 HARD LANDING

Phase of Operation DESCENT - UNCONTROLLED

Finding(s)

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

4. RECOVERY FROM BOUNCED LANDING - DELAYED -

Occurrence #3 MISCELLANEOUS/OTHER Phase of Operation LANDING - ROLL

Finding(s)

5. BALLOON EQUIPMENT, BASKET - CHAFED

- 6. EVACUATION PREMATURE PASSENGER
- ANXIETY/APPREHENSION PASSENGER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: BALLOON ENTERED INTO A SEVERE DOWN DRAFT WHICH RESULTED IN A HARD LANDING DUE TO INADEQUATE PREPARATION AND COMPENSATION FOR THE CONDITIONS BY THE BALLOON PILOT.

Landing Gear - TRICYCLE-RETRACTABLE Num Max Gross Wt - 2600 Eng No. of Seats - 4 Rat Environment/Operations Information	SUBSTANTIAL Fatal Serious Minor Fire Crew 0 0 0 NONE Pass 0 0 0 Make/Model - LYCOMING IO-360-A1B6 ELT Installed/Activated ber Engines - 1 Stall Warning System ine Type - RECIP-FUEL INJECTED ed Power - 200 HP	
Aircraft Information Make/Model - BEECH C24R Eng Landing Gear - TRICYCLE-RETRACTABLE Numl Max Gross Wt - 2600 Eng No. of Seats - 4 Rat	ber Engines - 1 Stall Warning System ine Type - RECIP-FUEL INJECTED ed Power - 200 HP	
, ,		
Method - N/A SAI Completeness - N/A Destin Basic Weather - VMC LOG Wind Dir/Speed- 100/004 KTS Visibility - 40.0 SM ATC/Ai Lowest Sky/Clouds - 25000 FT THIN BKN Type Lowest Ceiling - 25000 FT BROKEN Type	Departure Point ON AIRPORT ME AS ACC/INC nation Airport Data CAL RYAN FLD. Runway Ident - 06 rspace Runway Lth/Wid - 5500/	75
Certificate(s)/Rating(s) Biennial F STUDENT Curren Months Aircra	48 Medical Certificate - VALID MEDICAL-WAIVERS/LIM light Review Flight Time (Hours) t - N/A Total - 40 Last 24 Hrs - UN Since - N/A Make/Model- 40 Last 30 Days- UN ft Type - N/A Instrument- UNK/NR Last 90 Days- UN Multi-Eng - O Rotorcraft -	IK/NR IK/NR
Instrument Rating(s) - NONE		

File No 5	30 4/01/89	TUCSON, AZ	A/C Reg. No. N23972	Time (Lc1) - 0837 MST
Occurrence #1 Phase of Operation		OUCHDOWN		
	ED - PILOT IN COMMAI AL EXPERIENCE - PIL			
Occurrence #2 Phase of Operation	COMPLETE GEAR COL LANDING - ROLL	LAPSED		
Occurrence #3 Phase of Operation		ON WITH TERRAIN/WATER		
Finding(s) 3. TERRAIN CONDITI	ON - RUNWAY			
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT MISJUDGED THE LANDING. THE PILOT BEGAN HIS FLARE TOO HIGH ABOVE THE RUNWAY RESULTING IN A HARD LANDING.

 -Basic Information Type Operating Certificate-NONE (GEN 	ERAL AVIATION)	Aircraft Damage			Injuries	
		SUBSTANTIAL			ous Minor	None
Type of Operation -INSTRUCTI		Fire	Crew	-	0 0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	0	0 0	0
-Aircraft Information						
Make/Model - CESSNA 172N	Eng Make/Mo	del - LYCOMING O	-320-D2J	ELT Instal	led/Activated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engi	nes - 1		Stall W	arning System	ı - YES
Max Gross Wt - 2400	Engine Type	- RECIPROCAT	ING-CARBURETOR	₹		
No. of Seats - 4	Rated Power	- 180 HP				
-Environment/Operations Information						
Weather Data	Itinerary		Α.	irport Proxim	ity	
Wx Briefing - FSS	Last Departu			ON AIRPORT		
Method - UNK/NR	SAME AS AC	C/INC				
Completeness - UNK/NR	Destination		Air	port Data		
Basic Weather - VMC	LOCAL			E.A. LOVE FI		
Wind Dir/Speed- 330/005 KTS				Runway Ident		
Visibility - 65.0 SM	ATC/Airspace				id - 7200/	
Lowest Sky/Clouds - CLEAR		ht Plan - NONE			ce - ASPHALT	-
Lowest Ceiling - NONE		rance - NONE		Runway Statu	s - DRY	
Obstructions to Vision- NONE	Type Apch/Lr	dg - TOUCH	AND GO			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information	A = 10	Marilia - 1	0	WALTE MEDIO	AL NO MATVEDO	· / L TAATT
Pilot-In-Command Certificate(s)/Rating(s)	Age - 19 Biennial Flight Re		Certificate	ime (Hours)	AL-NO WAIVERS	V/ LIMIII
STUDENT	9				st 24 Hrs -	2
STUDENT	Months Since	•				7
	Aircraft Type		trument- UNK/N	19 La IR La	st 30 Days	13
	An Craft Type		ti-Eng -		torcraft -	0
Instrument Rating(s) - NONE						
-Narrative STUDENT PLT WAS ON HIS 1ST UNSUPERVISE	D. COLO. ELT. 9. WAS MAKEN	O TOUGH 8 OO LAN	OTNOC TAL THE	OCAL DATTERN		
STODENT FLT WAS UN HIS IST UNSUFERVISE 2ND LANDING, HE RETRACTED THE FLAPS, A DMING AIRBORNE, HE ENCOUNTERED "HARSH B T NOSED DOWN, CONTACTED THE RUNWAY & BE	PPLIED FULL POWER & MC ACK PRESSURE" & TRIED	VED THE CARBURET TO TRIM, BUT THE	OR HEAT TO OFF TRIM DID NOT	. HE RPRTD T HELP. SUBSEQ	HAT AFTER UENTLY, THE	
E GEAR & FIREWALL WERE DAMAGED DRG THE ITION & THE TRIM TAB WAS FOUND DISPLACE	OCCURRENCE. DRG AN INV	ESTIGATION, THE	ELEVATOR TRIM	WAS FOUND IN	A "NOSE DOWN	

File No. - 485 4/05/89 PRESCOTT, AZ A/C Reg. No. N248ER Time (Lcl) - 1725 MST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. TOUCH-AND-GO - PERFORMED -2. ELEVATOR TRIM - IMPROPER USE OF - PILOT IN COMMAND 3. PROPER CLIMB RATE - NOT MAINTAINED - PILOT IN COMMAND 4. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation TAKEOFF Finding(s) 5. TERRAIN CONDITION - RUNWAY 6. PORPOISE - INADVERTENT - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE ELEVATOR FLIGHT CONTROL BY THE PILOT AND HIS FAILURE TO MAINTAIN A PROPER RATE OF CLIMB AFTER LIFT-OFF. CONTRIBUTING FACTORS WERE: IMPROPER USE OF ELEVATOR TRIM BY THE PILOT, HIS LACK OF TOTAL EXPERIENCE, AND AN INADVERTENT PORPOISE.

Type Operating Certificate-NONE (GENERA		raft Damage			ıries	
Type of Openation DEDCOMAL		STANTIAL	Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NON			0	0	1 2
Accident Occurred During -LANDING			-	· ·	_	2
Aircraft Information						
Make/Model - CESSNA 180		CONTINENTAL 0-470-S		Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			Stall Warni	ing System	- YES
Max Gross Wt - 2800 No. of Seats - 4	3 7.	RECIPROCATING-CARBUR	ETUR			
NO. 01 Jeats 4	Rated Power -					
Environment/Operations Information Weather Data	Thinanau		A :	Durantanta		
weather bata Wx Briefing - NO RECORD OF BRIEFING	Itinerary G Last Departure Po	int	AIPPORT ON AIR	Proximity		
Method - N/A	DURANGO, CO	1110	ON AT	KF OK I		
Completeness - N/A	Destination		Airport [ata (
Basic Weather - VMC	SAME AS ACC/INC		COTTO			
Wind Dir/Speed- 230/020 KTS					- 14	
Visibility - 50.0 SM	ATC/Airspace			/ Lth/Wid		75
Lowest Sky/Clouds - CLEAR	Type of Flight Pl			Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance	- NUNE - TRAFFIC PATTERN	Runway	/ Status	- DRY	
Precipitation - NONE	Type Apcil/ Elidg	- INAFFIC FAITERN				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 28	Medical Certifica			/AIVERS/LIM	1IT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (F	lours)	14 11-5	
PRIVATE SE LAND	Current - NO	Total - Make/Model-	112 61	Last 2	24 mrs - 20 Davs-	6 6
SE LAND	Months Since - 6 Aircraft Type - C-1	72 Instrument-	0	Last 9 Last 9	O Days	30
	2. 2	220. 320	-		y-	- 0
Instrument Rating(s) - NONE						
Narrative						
PILOT SAID HE WAS ON DOWNWIND FOR THE AIR	RPORT WHEN HE NOTICED A D	IRECT CROSSWIND FROM	APPROXIMA	ELY 230		

File No. - 586 5/03/89 COTTONWOOD,AZ A/C Reg. No. N9924N Time (Lcl) - 1830 MST

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

Finding(s)

1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND
2. WEATHER CONDITION - CROSSWIND
3. COMPENSATION FOR WIND CONDITIONS - NOT MAINTAINED - PILOT IN COMMAND

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

Finding(s)

4. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLIGHT PLANNING/DECISION BY THE PIC WHEN HE DECIDED TO LAND WITH SUCH A CROSSWIND, AND NOT MAINTAINING COMPENSATION FOR THE CROSSWIND AFTER HE DECIDED TO ATTEMPT THE LANDING.

File No 590 6/17/89 BAGDA	D,AZ A/C Reg	. No. N9729V	Т	ime (Lcl) - 123	O MST	
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraft DESTROYE	_	Fatal	Injuries Serious Mi	nor	None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	-	Ö	0	1
Accident Occurred During -LANDING		,	· ·	Ū		·
Aircraft Information						
Make/Model - CESSNA 175K	Eng Make/Model - CONT	INENTAL IO-360-K		Installed/Activ		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S.	tall Warning Sy	stem -	YES
Max Gross Wt - 2550		P-FUEL INJECTED				
No. of Seats - 4	Rated Power - 1	95 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point KINGMAN.AZ		OFF AII	RPORT/STRIP		
Completeness - N/A	Destination		Airport Da	.+.		
Basic Weather - VMC	GLEDALE, AZ		A Import Da	ala		
Wind Dir/Speed- UNK/NR	GELDALL, AZ		Runway	Ident - N/A		
Visibility - 70.0 SM	ATC/Airspace			Lth/Wid - N/A		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE	Runway	Surface - N/A		
Lowest Ceiling - NONE	Type of Clearance -	NONE		Status - ROU		
Obstructions to Vision- NONE	Type Apch/Lndg -	FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		ledical Certifica			S/LIMIT	Γ
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H			_
PRIVATE	Current - YES	Total -		Last 24 Hrs		2
SE LAND	Months Since - 8 Aircraft Type - C-175K	Make/Model- Instrument-	133 1	Last 30 Day Last 90 Day	S-	5 11
	Aircraft Type - C-1/5k	Multi-Eng -	0	Rotorcraft		0
		Marti Eng	Ü	Rotor Crart		O
Instrument Rating(s) - NONE						
Narrative						
THE PILOT SAID THE AIRPLANE WAS 1,000 TO 1,20	O FEET AGL WHEN THE ENGINE LO	ST ALL POWER. HE	SAID HE MA	ADE A FORCED		
ANDING ONTO WHAT APPEARED TO BE A FLAT MESA.						
AFTER THE ACCIDENT, IT WAS NOT POSSIBLE TO RU						
EXAMINED THE ENGINE AND ASSOCIATED FUEL SYSTE	M AND WAS UNABLE TO DETERMINE	WHY THE ENGINE	HAD SUFFERI	ED A LOSS		
OF POWER.						

File No 5	90 6/17/89 BA	AGDAD, AZ 	A/C Reg. No. N9729V	Time (Lc1) - 1230 MST
Occurrence #1 Phase of Operation	LOSS OF CONTROL - IN CRUISE - NORMAL	N FLIGHT		
Finding(s) 1. POWERPLANT - UN				
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY			
	IN FLIGHT COLLISION TAXI - PUSHBACK/TOW	WITH TERRAIN/WATER		
Finding(s) 2. TERRAIN CONDITI				

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

Basic Information Type Operating Certificate-NONE (GENERA		Ainonaft Damage							
Type operating centificate-none (GENERA	L AVIATION)	Aircraft Damage DESTROYED	2	Fatal	Inju Serious	uries Minor	None		
Type of Operation -PERSONAL		Fire	Crew		0	1	0		
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		ON GROUND	Pass	0	0	3	0		
Aircraft Information									
Make/Model - CESSNA 421		Model - CONTINENTA	L GTSIO-52			/Activated			
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6900	Number En Engine Tv	gines - 2 pe - RECIP-FUEL	TNUECTED	S	tall Warn	ing System	- YES		
No. of Seats - 6	Rated Pow		INOCCIED						
Environment/Operations Information	T. 4				D				
Veather Data		tung Point			Proximity	T D			
Method - N/A		SAME AS ACC/INC			OFF AIRPORT/STRIP				
Completeness - N/A	Destination	•		Airport D	ata				
Basic Weather - VMC	SEDONA, A	Z		_	-				
Wind Dir/Speed- 270/005 KTS Visibility - 30.0 SM	ATC/Airspace				Ident Lth/Wid	- N/A			
Lowest Sky/Clouds - UNK/NR		ight Plan - NONE			Surface				
Lowest Ceiling -	Type of C1	earance ~ NONE				- HIGH VE	GETATION		
Obstructions to Vision- NONE	Type Apch/	Lndg - FORCED) LANDING						
Precipitation - NONE Condition of Light - DAYLIGHT									
Personnel Information									
Pilot-In-Command	Age - 50	Medical	Certifica	te - VALID	MEDICAL -V	WAIVERS/LI	ИΙΤ		
Certificate(s)/Rating(s)	Biennial Flight	Review		ht Time (H		,(1 \ 2 \ (0) \ 2 1			
COMMERCIAL, CFI	Current	- YES Tot	:al -			24 Hrs -	_O		
SE LAND, ME LAND	Months Since		ce/Model-		Last 3	30 Days- 90 Days-	52		
	All Chaft Typ	e - C-1/2 Ins Mul	strument- ti-Eng -			craft -	157 451		
Instrument Rating(s) - AIRPLANE									
Narrative									
LEFT ENGINE LOST POWER JUST AFTER TAKEOFF	. WITH THE GEAR A	ND FLAPS RETRACTED	AND THE L	EFT PROPEL	LER				
HERED, THE AIRPLANE WOULD CLIMB SLIGHTLY.									
AIRPLANE TOUCHED DOWN IN A COTTON FIELD A						2.5			
AIRPLANE WAS CONSUMED BY FIRE. ENGINE TEA ACCIDENT WAS 1.600 FEET MST. DAT WAS 114						JF			

File No. - 589 6/17/89 PICACHO, AZ A/C Reg. No. N421S Time (Lcl) - 1500 MST Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. ENGINE ASSEMBLY, VALVE, EXHAUST - FAILURE, TOTAL 2. 1 ENGINE -3. PROPELLER FEATHERING - PERFORMED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. WEATHER CONDITION - HIGH DENSITY ALTITUDE Occurrence #3 FIRE Phase of Operation LANDING - FLARE/TOUCHDOWN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE NUMBER THREE EXHAUST VALVE ON THE LEFT ENGINE. A MAJOR FACTOR WAS THE HIGH DENSITY ALTITUDE WHERE THE AIRPLANE WOULD NOT OPERATE ON SINGLE ENGINE.

File No 588 7/17/89 CHAND	OLER, AZ	A/C Reg. No. N	1761JA	T	ime (Lcl) -	- 1500 MS	Т
Basic Information Type Operating Certificate-NONE (GENERA	,	ircraft Damage			Injur		
		SUBSTANTIAL		Fatal	Serious		None
Type of Operation -FERRY		ire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	Ο	0	0
Aircraft Information							
Make/Model - CESSNA T210	Eng Make/Mode	1 - CONTINENTAL	10-520	ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engine				tall Warnir		
Max Gross Wt - 3300		- RECIP-FUEL	INJECTED			., -, -	
No. of Seats - 6	Rated Power	- 285 HP					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		Point			RPORT/STRIP	•	
Method - N/A	BULLHEAD CIT				,		
Completeness - N/A	Destination	.,		Airport D	ata		
Basic Weather - VMC	CHANDLER, AZ			MUNICI			
Wind Dir/Speed- UNK/NR						- 22	
Visibility - 20.0 SM	ATC/Airspace				Lth/Wid -	4395/	30
Lowest Sky/Clouds - CLEAR	Type of Flight	: Plan - NONE			Surface -		
Lowest Ceiling - NONE	Type of Cleara					- DRY	
Obstructions to Vision- NONE	Type Apch/Lndo	- TRAFFIC	PATTERN	•			
Precipitation - NONE	,, , , ,		LANDING				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - UNK/NR	Medical	Certificat	te - VALID	MEDICAL-NO	WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Rev			nt Time (F			,
COMMERCIAL	9	YES Tota	_		•	Hrs - U	NK/NR
SE LAND, ME LAND	Months Since -		e/Model- UN		Last 30		
SE EMIS, ME EMIS	Aircraft Type -		rument-		Last 90		
	711 31 a. c. 1 y p c		i-Eng -	139	Rotorcr	aft -	0
Instrument Rating(s) - AIRPLANE							
Nanna+ivo							
THE AIRPLANE WAS ON A FERRY PERMIT DUE TO THE RIGHT LANDING GEAR DID NOT EXTEND AND THE AIR GALLONS OF FUEL WERE PUT IN THE LEFT TANK FOR EMPTY. THE FERRY FLIGHT WAS BEING MADE WITH TWERY CLOSE TO THE DESTINATION AIRPORT, THE EMPILED, THE AIRPLANE IMPACTED HARD. POST ACCIDENT.	RPLANE LANDED ON ITS N R A TOTAL OF 35 GALLON THE GEAR DOWN AND WITH NGINE CEASED TO PRODUC	NOSE AND LEFT GE NS FOR THE FERRY HOUT ELECTRICAL DE POWER AND DUF	EAR. AFTER / FLIGHT. T POWER. WHE RING THE FO	TEMPORARY THE RIGHT EN THE AIR	REPAIRS, 2 TANK WAS PPLANE WAS	20	

File No. - 588 7/17/89 CHANDLER, AZ A/C Reg. No. N761JA Time (Lc1) - 1500 MST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - BASE LEG/BASE TO FINAL Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 3. FLUID, FUEL - EXHAUSTION 4. FUEL CONSUMPTION CALCULATIONS - IMPROPER - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN 5. TERRAIN CONDITION - ROUGH/UNEVEN

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUAT PREFLIGHT PLANNING/PREPARATION AND THE IMPROPER FLIGHT PLANNING/DECISIONS, IE. IMPROPER FUEL CONSUMPTION CALCULATIONS, BY THE PIC.

----Probable Cause----

File No 420 1/14/89 WESTI	_AKE,CA A/C R	eg. No. N7174L	-	Time (Lcl) -	1613 PST	
Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Aircraf DESTRO Fire NONE	t Damage YED Crew Pass	Fatal O O	Injur Serious O O		None O O
Aircraft Information Make/Model - GRUMMAN AMERICAN AA-1B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1560 No. of Seats - 2		COMING 0-235 CIPROCATING-CARBUR 108 HP	ELT S ETOR	Installed/A Stall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/008 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	FALLBROOK,CA Destination CAMARILLO,CA ATC/Airspace Type of Flight Plan Type of Clearance	- NONE	OFF A: Airport [Runway Runway Runway	y Ident - y Lth/Wid - y Surface -	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 35 Biennial Flight Review Current - YES Months Since - 10 Aircraft Type - C-152	Total - Make/Model- U	nt Time (H 1212 NK/NR NK/NR	Hours) Last 24 Last 30 Last 90	Hrs - UN	K/NR K/NR K/NR
Instrument Rating(s) - AIRPLANE Narrative FORE REACHING THE DESTINATION ARPT, THE ENG NEUVERED TO LAND ON A ROADWAY & REMAINED OV E RIGHT WING HIT A UTILITY POLE NEXT TO THE	/ER THE MEDIAN AS LONG AS PO	SSIBLE TO AVOID VE WING WAS TORN OFF	HICLES. DE THE ACFT.	RG THE LANDI THE ACFT TH	NG, IEN	

File No 4	20 1/14/89 WESTLAKE,CA	A/C Reg. No. N7174L	Time (Lcl) - 1613 PST
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICA	L	
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
	IN FLIGHT COLLISION WITH OBJECT LANDING - FLARE/TOUCHDOWN		
Finding(s) 4. OBJECT - UTILIT	Y POLE		
Occurrence #4 Phase of Operation			
Finding(s) 5. TERRAIN CONDITI	ON - ROUGH/UNEVEN		
Probable Cause			
IMPROPER PLANNING AN	rtation Safety Board determines that the Prob D DECISION BY THE PILOT WHICH RESULTED IN FUE		

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INDICATION, UTILITY POLE & UNEVEN TERRAIN.

File No 428 1/27/89	GUALALA,CA	A/C Reg. No. N4235R Time (Lc1) - 1000 P			- 1000 PS	Γ
Basic Information Type Operating Certificate-NONE (rcraft Damage		Inju	ries	
	SI	JBSTANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSON		-	Crew O	0	0	1
Flight Conducted Under -14 CFR		DNE	Pass 0	0	0	2
Accident Occurred During -LANDIN	G 					
Aircraft Information						
Make/Model - PIPER PA-32-300		- LYCOMING IO-540	EL.	「Installed/		
Landing Gear - TRICYCLE-FIXED	Number Engines	- 1		Stall Warni	ng System	- YES
Max Gross Wt - 3400	Engine Type	- RECIP-FUEL INJE	CTED			
No. of Seats - 6	Rated Power	- 300 HP				
Environment/Operations Information-						
Weather Data	Itinerary		Airpor	t Proximity		
Wx Briefing - NO RECORD OF BR	IEFING Last Departure I	Point	ON A	IRSTRIP		
Method - N/A	UKIAH, CA					
Completeness - N/A	Destination		Airport	Data		
Basic Weather - VMC	SAME AS ACC/IN	NC	GUAL	ALA		
Wind Dir/Speed- UNK/NR			Runwa	ay Ident	- 31	
Visibility - UNK/NR	ATC/Airspace		Runwa	av Lth/Wid	- 2500/	100
Lowest Sky/Clouds - 5000 F	T SCATTERED Type of Flight F	Plan - NONE	Runwa	ay Surface	- ASPHALT	
	T BROKEN Type of Clearand			av Status		
Obstructions to Vision- NONE	Type Apch/Lndg			,		
Precipitation - NONE	. , , , , , , , , , , , , , , , , , , ,					
Condition of Light - DAYLIGH	Т					
Personnel Information						
Pilot-In-Command	Age - 41	Medical Cert	ificate - VAL		O WAIVERS,	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	N	Flight Time			
PRIVATE	Biennial Flight Review Current - Ye Months Since - 18	ES Total			4 Hrs -	2
SE LAND	Months Since - 18	B Make/Mod		Last 3		7
	Aircraft Type - P	A-28 Instrume	ent- 70	Last 9	O Days-	21
Instrument Rating(s) - NONE						
Narrative						
	WITH TERRAIN SHORT OF THE RU	JNWAY. IT THEN BOU	INCED ONTO THE	RUNWAY, WEN	T OFF	
NG A LANDING, THE ATRUKAFT CULLIDED						
	T. THE ACFT WAS DAMAGED DURIN	NG THE OCCURRENCE.	DOI NO PREIM	ACI IANI IA	ILOKE	
LEFT SIDE & CAME TO REST IN THE DIR MALFUNCTION WAS FOUND.	T. THE ACFT WAS DAMAGED DURIN	NG THE OCCURRENCE,	BUT NO PREIM	ACT TAKE TA	ILOKE	

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT MISJUDGED THE ALTITUDE AND DISTANCE TO THE RUNWAY AND SUBSEQUENTLY DID NOT ATTAIN THE PROPER TOUCHDOWN POINT.

File No 424 1/27/89 PARLI	ER,CA A/C R	eg. No. N8403N	T 	ime (Lc1) -	1755 PST	. – – – – – –	
-Basic Information Type Operating Certificate-NONE (GENERA	· · · · · · · · · · · · · · · · · · ·	DN) Aircraft Damage DESTROYED		Injuries Fatal Serious Minor M			
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass	-	O O	0 0	1 1	
-Aircraft Information Make/Model - BEECH E33 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3060 No. of Seats - 4	Eng Make/Model - CO Number Engines - 1 Engine Type - RE Rated Power -			Installed/A tall Warnin			
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point SAN DIEGO,CA			Proximity RPORT/STRIP			
Completeness - N/A Basic Weather - VMC	Destination FRESNO,CA		Airport D	ata			
Wind Dir/Speed- 360/003 KTS Visibility - 4.000 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NDNE	ATC/Airspace Type of Flight Plan Type of Clearance		Runway Runway	Lth/Wid - Surface -	N/A N/A N/A N/A		
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DUSK		- FORCED LANDING	Kullway	Status -	N/ A		
-Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 55 Biennial Flight Review	Medical Certifica	te - VALID ht Time (H		WAIVERS/	LIMIT	
PRIVATE	Current - YES	Total -	300	Last 24	Hrs -	2	
SE LAND, ME LAND	Months Since - 3	Make/Model-	44	Last 30		16	
	Aircraft Type - C-172	Instrument- Multi-Eng -	63 24	Last 90 Rotorcr	Days- aft - UN	43 IK/NR	
Instrument Rating(s) - AIRPLANE							
-Narrative ORE DEPG ON A FLT FROM SAN DIEGO TO FRESNO	. THE PLT VISUALLY INSPECTE	D THE FUEL TANKS &	BOTH WERE	FULL. HE T	00K		
AT ABOUT 1515 PST USING THE LEFT TANK. HE IN LATER, THE ENG BEGAN RUNNING ROUGH & HE RETURNED TO NORMAL OPN. OVER THE LAKE HUG E PROBLEM. AT THAT TIME, HE BELIEVED THERE N THE ACFT WAS ON ARRIVAL AT THE ALTTA INT. RIGHT TANK, BUT WAS UNABLE TO RESTART THE TO 150 FT, THE ACFT HIT A DITCH & WAS EXT	RPRTD THAT OVER THE SEAL B NOTED A DROP IN FUEL PRESS HES AREA, HE MOMENTARILY SE WOULD BE SUFFICIENT FUEL I XN (IAF FOR THE ILS RWY 29R ENG. HE MADE AN EMERGENCY	EACH AREA, HE SELE- URE. HE THEN RESEL LECTED THE RIGHT T N THE LEFT TANK TO APCH), THE ENG LO LNDG IN AN OPEN AR	CTED THE R ECTED THE ANK AGAIN CONTINUE ST POWER. EA, BUT AF	IGHT TANK. LEFT TANK & & EXPERIENC TO FRESNO. THE PLT SEL TER ROLLING	APRX THE ED THE HOWEVER, ECTED APRX		

File No. - 424 1/27/89 PARLIER, CA A/C Reg. No. N8403N Time (Lcl) - 1755 PST Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH Finding(s) 1. FUEL SYSTEM, VENT - BLOCKED (TOTAL) 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 3. FLIGHT TO ALTERNATE DESTINATION - NOT PERFORMED -4. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. TERRAIN CONDITION - DITCH ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER IN-FLIGHT PLANNING/DECISION TO CONTINUE TO THE DESTINATION AIRPORT AFTER ENCOUNTERING A RESTRICTION OF FUEL FLOW FROM THE RIGHT TANK AND SUBSEQUENT FUEL STARVATION WHEN THE LEFT TANK EMPTIED. CONTRIBUTING FACTORS WERE THE BLOCKED FUEL VENT AND A DITCH.

File No 411 2/12/89 SACRA	MENTO,CA A/C R	eg. No. N73309	Ti	me (Lc]) -	1810 PST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTAI Fire	t Damage NTIAL Crew Pass		Injur Serious O O		None 1 1
Aircraft Information Make/Model - CESSNA 172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/Model - Lyo Number Engines - 1 Engine Type - REo Rated Power -		St	nstalled/Acall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 180/006 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DUSK	Itinerary Last Departure Point COLUSA,CA Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE	Runway Runway	ORT (14a) S FIELD	ASPHALT	30
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 41 Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total - Make/Model-	ht Time (Ho 59 8 O		Hrs - UN Days-	K/NR 8
Instrument Rating(s) - NONENarrative HE PLT RPRTD THAT WHILE LANDING ON RWY 34 AT RAKES TO STOP, THEN DECIDED TO GO AROUND. DR DNTACTED WET/MUDDY TERRAIN ABOUT 1/4 MI FROM EVEALED THE PLT HAD MADE 3 ATTEMPTS TO LAND DNFIGURATION WHEN THE ACONT OCCURRED. THE WI	G CLIMB-OUT, THE LANDING GEA THE DEPARTURE END OF THE RU ON THE RWY & WAS ON HIS 3RD	AR HIT A LIGHT POL WY & WAS EXTENSIVE GO-AROUND. THE AC	E. SUBSEQUE LY DAMAGED.	NTLY, THE A	ACFT	

File No. - 411 2/12/89 SACRAMENTO, CA A/C Reg. No. N73309 Time (Lc1) - 1810 PST Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - ABORTED Finding(s) 1. LIGHT CONDITION - DUSK 2. WEATHER CONDITION - TAILWIND 3. WRONG RUNWAY - SELECTED - PILOT IN COMMAND 4. GO-AROUND - DELAYED - PILOT IN COMMAND 5. OBJECT - UTILITY POLE 6. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND 7. RAISING OF FLAPS - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ABORTED Finding(s) 8. TERRAIN CONDITION - SOFT 9. TERRAIN CONDITION - WET ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S SELECTION OF THE WRONG RUNWAY FOR LANDING AND HIS DELAY IN INITIATING A GO-AROUND AFTER LANDING LONG. CONTRIBUTING FACTORS WERE: LIGHT CONDITIONS AS DUSK AND A TAILWIND.

File No 416 2/13/89 SAN MA	ARTIN,CA A/C Reg. No. N5726M			Time (Lcl) - 1705 PDT				
Basic Information Type Operating Certificate-NONE (GENERAL		AVIATION) Aircraft Damage SUBSTANTIAL			Injuries Fatal Serious Minor			
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	-	Fire NONE	Crev Pass		0	0	2 0	
Aircraft Information Make/Model - MOONEY M2OJ Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 2740 No. of Seats - 4	Number Eng	ines - 1 e - RECIP	ING IO-360-A3B6 -FUEL INJECTED) HP		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- UNK/NR Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Cle	, CA	ONE	ON AIR Airport D SAN MA Runway Runway Runway	ata RTIN	- ASPHALT	75	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age - 52 Biennial Flight R	eview		ght Time (H	lours)			
COMMERCIAL,CFI SE LAND,ME LAND	Current Months Since Aircraft Type		Total - Make/Model- Instrument- Multi-Eng -	300 451	Last 3	4 Hrs - O Days- O Days-	1 3 5	
Instrument Rating(s) - AIRPLANE								
THE INSTRUCTOR (CFI) RPRTD THE STUDENT MADE A LITTLE HIGH. HE SAID HE TOLD THE STUDENT "TO SUDDED POWER. THE CFI TOLD THE STUDENT TO THROUGH TO GO AROUND. THE STUDENT SAID THAT DESTING TO MAKE A GO-AROUND. THE CFI SAID THAT SUE TO THE NOSE HI ATTITUDE & FULL POWER. THE SETRACTING THE GEAR & FLAPS. DRG THE OCCURRENT WISHED TO THE GROUND ON THE LEFT SIDE OF THE SETTING THE ACFT AT THE TIME OF THE ACCOUNT.	PULL THE THROTTLE ITLE BACK 2 MORE T RG THE LANDING, TH DRG THE GO-AROUND, STALL WARNING HOR CE, THE CFI TOOK C	BACK" & THAT IMES. RPRTDL E ACFT BOUNC THE NOSE CAI N SOUNDED & ONTROL OF TH	IT WAS A GOOD	LANDING, B THROTTLED E HE TOLD T FT BEGAN A HE STUDENT TO RECOVER	UT THE STU BACK ONCE, HE CFI HE TURN TO TH TO REDUCE , BUT THE	DENT THEN WAS E LEFT DRAG BY ACFT		

File No. - 416 2/13/89 SAN MARTIN, CA A/C Reg. No. N5726M Time (Lcl) - 1705 PDT

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation LANDING - ABORTED

Finding(s)

- 1. RECOVERY FROM BOUNCED LANDING INITIATED DUAL STUDENT
- 2. INSTRUCTIONS, WRITTEN/VERBAL NOT FOLLOWED DUAL STUDENT
- 3. SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- 4. GO-AROUND INITIATED -
- 5. RAISING OF FLAPS PERFORMED -
- AIRSPEED NOT MAINTAINED PILOT IN COMMAND(CFI)
- 7. STALL/MUSH UNCONTROLLED -

Occurrence #2 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: FAILURE OF THE STUDENT TO FOLLOW INSTRUCTIONS AND INADEQUATE SUPERVISION OF THE FLIGHT BY THE CFI WHICH RESULTED IN ADEQUATE AIRSPEED NOT BEING MAINTAINED BY THE CFI. DURING AN ATTEMPTED GO-AROUND.

	CITY,CA A/C Reg. No. N2377Y Time (Lc1)			Time (Lc1) - 1330 PST			
-Basic Information Type Operating Certificate-NONE (GENERAL AVIATION)		Aircraft Da SUBSTANTIA	Injuries Fatal Serious Minor				
Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	AL	Fire NONE	Crew Pass	0	0	0	None 2 0
-Aircraft Information Make/Model - CESSNA 177 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2275 No. of Seats - 4		/Model - LYCOMI ngines - 1 ype - RECIPR	OCATING-CARBURE	ELT S ETOR	Installed// Stall 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- 300/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	MARYSVII Destination LOCAL ATC/Airspace Type of F	e light Plan - NC learance - NC /Lndg - SI	NE	Airport OFF AI Airport D VANDER Runway Runway Runway Runway	Proximity RPORT/STRIF Data PFORD RANCH	- 36 - N/A - ASPHALT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND	Age - 64 Biennial Flight Current Months Since Aircraft Typ	Review - YES e - 8		nt Time (H 3000 7 NK/NR	lours) Last 24 Last 30 Last 90	Hrs - UNI Days- UNI	
Narrative A DUAL INSTRUCTIONAL FLT, THE INSTRUCTOR E ACFT TO MAKE AN APCH TO A NEARBY AIRSTRIF S STARTED, THE STUDENT ASKED IF HE WAS GOIN JDENT) ADDED A SMALL AMOUNT OF POWER AND I DKED OVER HIS SHOULDER TO VIEW THE RUNWAY. JWAY DISAPPEARING AT THE TOP OF THE SIDE WI	P. IN A STATEMENT NG TO "MAKE" IT, A TOLD HIM HE DID I WITHIN SECONDS,	AFTER THE ACDN AND I RESPONDED NOT HAVE POWER, I COULD FEEL AN	T, THE CFI SAID IN THE AFFIRMA AS I RETARDED ACCELERATED SI) THAT "AS ATIVE. AT THE THROT [NK RATE,	THE TURN THAT POINT, TLE AND AGA AND OBSERVE	TO BASE , HE (THE AIN ED THE	

File No. - 499 2/26/89 YUBA CITY, CA A/C Reg. No. N2377Y Time (Lc1) - 1330 PST

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation GO-AROUND (VFR)

Finding(s)

- 1. EMERGENCY PROCEDURE SIMULATED PILOT IN COMMAND(CFI)
- 2. PLANNED APPROACH POOR DUAL STUDENT
- 3. SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- 4. GO-AROUND DELAYED PILOT IN COMMAND(CFI)
- 5. AIRSPEED INADEQUATE -
- 6. STALL/MUSH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SUPERVISION BY THE INSTRUCTOR (CFI) WHICH RESULTED IN A DELAYED GO-AROUND, INADEQUATE AIRSPEED, AND A STALL/MUSH INTO THE GROUND. A POOR APPROACH BY THE STUDENT PILOT WAS A CONTRIBUTING FACTOR.

File No 504 3/04/89 UPL	AND,CA A/C Re	g. No. N42859	Τ	ime (Lcl) -	1550 PS	Γ
Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Aircraft SUBSTAN	0	Fatal	Injur Serious		None
Type of Operation -PERSONAL	Fire	Crew		0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	-	0	0	Ö
Accident Occurred During -LANDING	None	1 433				
Aircraft Information						
Make/Model - CESSNA 182L	Eng Make/Model - CON			Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			itall Warnin	g System	- YES
Max Gross Wt - 2800		IPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	230 HP				
Environment/Operations Information					- ,·	
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFI			ON AIR	PORT		
Method - N/A	SHAFTER, CA					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		CABLE			
Wind Dir/Speed- 290					24	
Visibility - 20.0 SM	ATC/Airspace			/Lth/Wid -		75
Lowest Sky/Clouds - 15000 FT SC				Surface -		
Lowest Ceiling - 25000 FT BR			Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		Medical Certifica			IVERS/LIM	MIT
Certificate(s)/Rating(s)	Biennial Flight Review	Flig	ht Time (F			
PRIVATE	Current - YES			Last 24		1
SE LAND	Months Since - 10 Aircraft Type - C-182L	Make/Model-	69	Last 30 Last 90	Days-	2
	Aircraft Type - C-182L	Instrument-	2	Last 90		3
		Multi-Eng -	0	Rotorcr	aft - UN	NK/NR
Instrument Rating(s) - NONE						
Narrative						
E PILOT OF A CESSNA 182, LOST DIRECTIONAL	CONTROL AFTER LANDING AND COL	LIDED WITH AN OBS	TACLE AT C	CB. THE		
LOT STATED THAT HE LANDED THE AIRPLANE IN					E	
THE RUNWAY AND COLLIDED WITH A BUSH. HE						
IGN THE AIRPLANE LOGITUDINALLY WITH THE F						
				,		
E PILOT REPORTED NO MECHANICAL FAILURES O	R MALEUNCTIONS WITH THE AIRPLA	NE PRIOR TO THE A	CCIDENT			

File No. - 504 3/04/89 UPLAND,CA A/C Reg. No. N42859 Time (Lcl) - 1550 PST

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. PROPER ALIGNMENT - NOT ATTAINED - PILOT IN COMMAND
2. REMEDIAL ACTION - NOT PERFORMED - PILOT IN COMMAND
3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT LANDING - ROLL

Finding(s)
4. OBJECT - OTHER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT FAILED TO CORRECT THE ATTITUDE OF THE AIRCRAFT AND ACHIEVE PROPER ALIGNMENT WITH THE RUNWAY PRIOR TO LANDING TOUCHDOWN.

Basic Information Type Operating Certificate-NONE (GENE	ERAL AVIATION)	Aircraft D	amage		Inju	uries	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- · · - · · · · · · · · · · · · · · · ·	SUBSTANTI		Fatal	Serious		None
Type of Operation -INSTRUCTION	DNAL	Fire	Crew	0	0	0	2
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	0
Accident Occurred During -TAKEOFF							
Aircraft Information							
Make/Model - CESSNA 310	Eng Make/	Model - CONTI	NENTAL IO-470B	ELT	Installed	/Activated	I - YES/YE
Landing Gear - TRICYCLE-RETRACTABLE		igines - 2		9	Stall Warn	ing System	ı - YES
Max Gross Wt - 4600	Engine Ty		-FUEL INJECTED				
No. of Seats - 5	Rated Pow	er - 24	O HP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEF				ON AIF	RPORT		
Method - N/A	SAME AS	ACC/INC					
Completeness - N/A	Destination			Airport [ata (
Basic Weather - VMC	SAME AS	ACC/INC		LONG E	BEACH		
Wind Dir/Speed- CALM					/ Ident	- 25R	
Visibility - 18.0 SM	ATC/Airspace				/ Lth/Wid		
Lowest Sky/Clouds - CLEAR		ight Plan - N		Runway	/ Surface	- ASPHALI	•
Lowest Ceiling - NONE		earance - N		Runway	/ Status	- DRY	
Obstructions to Vision- NONE	Type Apch/	Lndg - F	ULL STOP				
Precipitation - NONE							
Condition of Light - NIGHT(BRIGH	⊣T) 						
Personnel Information							
Pilot-In-Command	Age - 32		dical Certifica			NO WAIVERS	S/LIMIT
Certificate(s)/Rating(s)	Biennial Flight			ht Time (F	•		_
							5
SE LAND, ME LAND							70
	Aircraft Typ	e - C-177RG	Instrument- Multi-Eng -	130 200	Last	BO Days-	140
Instrument Rating(s) - AIRPLANE							
COMMERCIAL,CFI SE LAND,ME LAND Instrument Rating(s) - AIRPLANE	Current Months Since Aircraft Typ	- YES	Total - Make/Model- Instrument-	1560 20 130	Last 2 Last 3	24 Hrs - 30 Days- 30 Days-	7

File No. - 505 3/09/89 LONG BEACH, CA A/C Reg. No. N4899B Time (Lc1) - 2120 PST

Occurrence #1 GEAR COLLAPSED Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. LANDING GEAR, MAIN GEAR STRUT SCISSORS SEPARATION
- 2. MAINTENANCE, INSTALLATION IMPROPER OTHER MAINTENANCE PSNL
- 3. LANDING GEAR, MAIN GEAR STRUT SCISSORS COLLAPSED
- 4. MAINTENANCE, INSPECTION OF AIRCRAFT INADEQUATE OTHER MAINTENANCE PSNL

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE LANDING GEAR STRUT ON THE RIGHT MAIN GEAR DUE TO IMPROPER MAINTENANCE.

File No 503 3/15/89 RIO	VISTA,CA	STA,CA A/C Reg. No. N51313 Time (Lc1) - 1840 PST						
Basic Information Type Operating Certificate-NONE (GENER.	AL AVIATION)	Aircraft	_			3	ıries	
		SUBSTANT	IAL	•	Fatal	Serious		None
Type of Operation -PERSONAL		Fire		Crew	0	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT		NONE		Pass	0	0	2	0
Aircraft Information	5 Mada	· /M	MTNO 0 000 5	20.1		T 1 - 1 1 1	/ A - A	VEC /NC
Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED		e/Model - LYC(Engines - 1	MING 0-320-L	J20			Activated no System	
Max Gross Wt - 2400	Engine 7		PROCATING-CA	A DDLIDE:		tali warmi	ng system	- 163
No. of Seats - 4	Rated Po	· 1	60 HP					
Environment/Operations Information								
Weather Data	Itinerary	ntuna Dairt				Proximity RPORT/STRI	· D	
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A		arture Point			OFF AI	KPUKI/SIRI	۲.	
Method - N/A Completeness - N/A	CONCORD Destinatio	•			Ainmont D	2+2		
Basic Weather - VMC	LOCAL	ווע		•	Airport D	аιа		
Wind Dir/Speed- 300/005 KTS	LUCAL				Pupuav	Ident	- N/A	
Visibility - 30.0 SM	ATC/Airspac	20				Lth/Wid		
Lowest Sky/Clouds - UNK/NR		light Plan -	NONE			•	- GRASS/TL	IDE
Lowest Sky/Crodus - UNK/NK		Clearance -					- WET	, KI
Obstructions to Vision- NONE	Type Apch		SIMULATED FO	necen i	,	Status	W L 1	
Precipitation - NONE	Type Aper	i/ Ling	SIMOLATED TO	SKOLD	LANDING			
Condition of Light - DUSK								
Personnel Information								
Pilot-In-Command	Age - 24		ledical Cert				O WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight				t Time (H			_
PRIVATE	Current	- YES	Total				24 Hrs -	0
SE LAND	Months Sinc		Make/Mode	_	6		BO Days-	2
	Aircraft Ty	/pe - C-150	Instrumer		0	Last 9	00 Days-	4
			Multi-Eng	g -	0			
Instrument Rating(s) - NONE								
Narrative								
HE PILOT OF A C172 FLEW INTO A TELEPHONE WI	RE. LOST CONTROL	OF THE AIRPLA	NE AND COLL	IDED W	ITH THE T	ERRAIN WHI	LE	
ECUTING A SIMULATED FORCED LANDING APPROAC								
HAT HE WAS SHOWING HIS PASSENGERS SIMULATED	FORCED LANDING A	APPROACH TO AN	OPEN FIELD.	. WHIL	E IN A DE	SCENT,		
OTH OF THE PILOTS AND THE PASSENGER SAW A T								
EVEL). THE PRIVATE PILOT WAS UNABLE TO AVOID								
HE RIGHT SIDE OF THE HORIZONTAL STABILIZER								
DLLIDED WITH THE TERRAIN. THERE WAS NO REPO								
CCIDENT.				- /•	– ,			

File No. - 503 3/15/89 RIO VISTA, CA A/C Reg. No. N51313 Time (Lcl) - 1840 PST Occurrence #1 LOSS OF ENGINE POWER Phase of Operation DESCENT - NORMAL Finding(s) 1. LIGHT CONDITION - DUSK 2. EMERGENCY PROCEDURE - SIMULATED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 3. OBJECT - WIRE, TRANSMISSION 4. MANEUVER - SIMULATED - PILOT IN COMMAND 5. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND 6. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND 7. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation DESCENT - EMERGENCY Finding(s) 8. OBJECT - WIRE, TRANSMISSION Occurrence #4 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:

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THE IMPROPER PLANNING AND EXECUTION OF AN EMERGENCY (SIMULATED) MANEUVER BY THE PILOT.

Make/Model- CESSNA 152EngLanding Gear- TRICYCLE-FIXEDNumMax Gross Wt- 1670EngNo. of Seats- 2Rat	Fire Crew NONE Pass ake/Model - LYCOMING 0-235-L2C Engines - 1 Type - RECIPROCATING-CARBURETOR	Injuries atal Serious Minor None 0 0 1 0 0 0 1 0 ELT Installed/Activated - YES/N
Accident Occurred During -LANDING	ake/Model - LYCOMING 0-235-L2C - Engines - 1 - Type - RECIPROCATING-CARBURETOR	O O 1 O ELT Installed/Activated - YES/N
Make/Model- CESSNA 152EngLanding Gear- TRICYCLE-FIXEDNumMax Gross Wt- 1670EngNo. of Seats- 2Rat	Engines - 1 Type - RECIPROCATING-CARBURETOR	
Landing Gear - TRICYCLE-FIXED Num Max Gross Wt - 1670 Eng No. of Seats - 2 Rat	Engines - 1 Type - RECIPROCATING-CARBURETOR	
-Environment/Operations Information	Power - 110 HP	Stall Warning System - YES
<u> </u>		rport Proximity DFF AIRPORT/STRIP
	AND, CA	port Data
Wind Dir/Speed- 300/010 KTS Visibility - 10.0 SM ATC/Ai		Runway Ident - N/A Runway Lth/Wid - N/A
Lowest Ceiling - NONE Type		Runway Surface - N/A Runway Status - N/A
Personnel Information Pilot-In-Command Age -	Medical Certificate -	VALID MEDICAL-WAIVERS/LIMIT
Certificate(s)/Rating(s) Biennial F	ght Review Flight Ti	ime (Hours)
PRIVATE Curren SE LAND, ME LAND Months	- YES Total - 193 ince - 8 Make/Model- 100	
	Type - C-172 Instrument- 24	Last 90 Days- 47
	Multi-Eng - 14	Rotorcraft - O
Instrument Rating(s) - NONE		

File No. - 498 3/19/89 SAN JOSE,CA A/C Reg. No. N49925 Time (Lc1) - 2158 PST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL

Phase of Operation CRUISE

Finding(s)

1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND

2. FLUID, FUEL - EXHAUSTION

Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY

Occurrence #3 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING

Finding(s)

3. LIGHT CONDITION - DARK NIGHT

4. OBJECT - TREE(S)

5. OBJECT - HIGH TERRAIN

----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 SUBSEQUENT FUEL EXHAUSTION. CONTRIBUTING FACTORS WERE: DARK NIGHT, TREES, AND THE BUILDING.

File No 531 3/24/89 LAKE	ELSINORE,CA A/C	Reg. No. N4374T	1	Time (Lcl) - 120	3 PST	
Basic Information Type Operating Certificate-NONE (GENER		ft Damage		Injuries		
	DESTR	DYED	Fatal	_	nor	None
Type of Operation -INSTRUCTION	AL Fire	Crew	0	Ο	1	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	Ο	0	0
Accident Occurred During -APPROACH						
Aircraft Information						
Make/Model - PIPER PA-34-200		YCOMING IO-360-C-1E	6 ELT	Installed/Activ	ated -	YES/YES
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -	2	9	Stall Warning Sy	/stem -	YES
Max Gross Wt - 4200	Engine Type - R	ECIP-FUEL INJECTED				
No. of Seats - 6	Rated Power -	200 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFIN	G Last Departure Poin	t	OFF A	RPORT/STRIP		
Method - N/A	CONCORD, CA					
Completeness - N/A	Destination		Airport [Data		
Basic Weather - VMC	LOCAL		SKYLAF	RK		
Wind Dir/Speed-			Runway	/ Ident - 11		
Visibility - 50.0 SM	ATC/Airspace		Runwa	/ Lth/Wid - 25	75/	80
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE		y Surface - DIR		
Lowest Ceiling - NONE	Type of Clearance			, - , Status - DRY		
Obstructions to Vision- NONE	Type Apch/Lndg			, 014140 2		
Precipitation - NONE	. , po po ,ag	01110211122 1 011022				
Condition of Light - DAYLIGHT						
Personnel Information		Madies 2 Octobrica	+- VAL TE	NEDTOAL NO WAT	D.C. / I	T A A T T
Pilot-In-Command	Age - 36	Medical Certifica			VERS/L	IMI
Certificate(s)/Rating(s)	Biennial Flight Review Current - YES	FIIg	ht Time (H			
ATP, CFI	Current - YES	Total -	3760	Last 24 Hrs		2
SE LAND, ME LAND	Months Since - 11 Aircraft Type - PA-44	Make/Model-	130	Last 30 Day Last 90 Day	/S-	65
	Aircraft Type - PA-44	Instrument-	255			200
		Multi-Eng -	1815	Rotorcraft	-	0
Instrument Rating(s) - AIRPLANE						
Nonnotive						
Narrative	CINCLE ENGINE OF ABOUND AN	O OOL LEGED WITH THE	TEDDATAL A	JEAD LAKE		
HE PILOT OF A PA-34-200 ATTEMPTED TO MAKE A						
SINORE, CA. THE CFI STATED THAT HE HAD SHU						
HE STUDENT, SINGLE- ENGINE PROCEDURES AND P						
NDING. THE STUDENT WAS HIGH AND FAST ON FI						
TH A POSITIVE RATE OF CLIMB. THE CFI TOOK						
TE OF CLIMB. THE ACFT WOULD NOT CLEAR POWE						
ESCENDED THE ACFT AND FLEW UNDER THEM. THE						
EAR HOUSES IN THEIR FLIGHT PATH. THE CFI E		AD. THERE WERE NO R	EPORTED ME	ECHANICAL FAILUR	RES	
R MALFUNCTIONS WITH THE ACFT PRIOR TO THE A	CCIDENT.					

	i31 3/24	4/89 LAKE ELSINORE,CA	A/C Reg. No. N4374T	Time (Lcl) - 1203 PST
Occurrence #1 Phase of Operation		GINE POWER		
 OVER CONFID IN-FLIGHT PLANN 	ENCE IN AIRCE IING/DECISION	JLATED - PILOT IN COMMAND(CF RAFT'S ABILITY - PILOT IN COU - POOR - PILOT IN COMMAND(C FOLLOWED - PILOT IN COMMAND	MMAND(CFI) FI)	
Occurrence #2	LOSS OF COM	NTROL - IN FLIGHT		
Phase of Operation	GO-AROUND	(VFR)		
Finding(s) 6. GO-AROUND - DEL 7. CLIMB - NOT ATT	GO-AROUND (AYED - DUAL S AINED - DUAL	(VFR) STUDENT		
Finding(s) 6. GO-AROUND - DEL 7. CLIMB - NOT ATT 8. SUPERVISION - I	GO-AROUND (AYED - DUAL S AINED - DUAL NADEQUATE - F	(VFR) STUDENT STUDENT		
Finding(s) 6. GO-AROUND - DEL 7. CLIMB - NOT ATT 8. SUPERVISION - I	GO-AROUND (AYED - DUAL S AINED - DUAL NADEQUATE - F ON GROUND (GO-AROUND ((VFR) STUDENT STUDENT PILOT IN COMMAND(CFI)COLLISION WITH OBJECT (VFR)		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CFI DISPLAYED POOR JUDGEMENT IN HIS DEMONSTRATION OF SINGLE ENGINE OPERATION OF A TWIN ENGINE ACFT. HIS LACK OF SUPERVISION OF AN IMPROPER, DETERIORATING SITUATION ASSURED AN UNSUCCESSFUL CONCLUSION.

File No 486 4/01/89	LANCASTER, CA	A/C Reg.	No. N3508Z	Т	ime (Lcl) -	1239 PST	
Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION)	Aircraft Da SUBSTANTIA		Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONA Flight Conducted Under -14 CFR Accident Occurred During -TAXI	L 91	Fire NONE	Crew Pass	0	0	0	1 0
Aircraft Information Make/Model - PIPER PA-22 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2000 No. of Seats - 4	Number Er Engine Ty	ngines - 1	ING 0-320 ROCATING-CARBURE D HP	S	Installed/A		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/025 KTS Visibility - 40.0 SM Lowest Sky/Clouds - 2000 FT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary EFING Last Depai COTTONWO Destination SAME AS ATC/Airspace SCATTERED Type of Filter Type of Cilington	OOD,AZ N ACC/INC e light Plan - NO	DNE DNE	ON AIR Airport D WILLIA Runway Runway Runway		24 5001/ ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,ME LAND Instrument Rating(s) - NONE	Biennial Flight Current	Review - UNK/NR e - UNK/NR	Total -	t Time (H 300 K/NR K/NR	ours) Last 24 Last 30 Last 90	Hrs - UNI	

File No. - 486 4/01/89 LANCASTER, CA A/C Reg. No. N3508Z Time (Lc1) - 1239 PST

Occurrence #1 NOSE OVER
Phase of Operation TAXI - FROM LANDING

Finding(s)

1. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND

2. WEATHER CONDITION - HIGH WIND

3. WEATHER CONDITION - GUSTS

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT. STRONG/GUSTY WINDS CONTRIBUTED TO THE ACCIDENT.

Type Operating Certificate-NONE (GENERA		aft Damage		Injur		
Type of Operation -PERSONAL	SUBSI Fire	「ANTIAL Cre	Fatal w O		Minor O	None
Flight Conducted Under -14 CFR 91	NONE	Pas	_	0	0	1
Accident Occurred During -LANDING	HONE	1 40		v	Ü	O
ircraft Information						
Make/Model - STINSON 108-3 Landing Gear - TAILWHEEL-ALL FIXED	Eng Make/Model - F			installed/Ad		
Max Gross Wt - 2200	Number Engines - Engine Type - F	1 RECIPROCATING-CARBU		all Warning	g System ·	- NU
No. of Seats - 4	J ,,	165 HP	METON			
Invironment/Operations Information						
leather Data	Itinerary		Airport F	,		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Poir SAN JOSE,CA	nt	ON AIR	PORT		
Completeness - N/A	Destination		Airport Da	ata		
Basic Weather - VMC	SAME AS ACC/INC		LIVERMO			
Wind Dir/Speed- VARIABLE/013 KTS					07	
Visibility - 25.0 SM	ATC/Airspace		•	Lth/Wid -	•	100
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plar Type of Clearance			Surface - Status -	DRY	
Obstructions to Vision- NONE	Type of Crearance Type Apch/Lndg		Runway	status -	ŅΚΊ	-
Precipitation - NONE	3,4 4 4 4 4 3					
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 58	Medical Certific	anto - VALTO	MEDICAL -WA	TVEDS/LIM	тт
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (Ho		IVLKS/ LIM.	LI
PRIVATE	Current - YES	Total -		Last 24	Hrs - UN	
SE LAND	Months Since - 22	Make/Model-	297	Last 30	Days- UN	
	Aircraft Type - 108-0	Instrument- Multi-Eng -	UNK/NR O	Last 90 Rotorcra	Days- aft -	0
Instrument Rating(s) - NONE				•		
larrative						
RDING TO THE PLT, THE WIND SOCK INDICATED	THERE WAS LITTLE WIND BEE	FORE HE LANDED HE	RPRTD THAT	AFTER LANDII	NG	

File No. - 484 4/08/89 LIVERMORE,CA A/C Reg. No. N6662M Time (Lc1) - 1022 PDT

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

Finding(s)

1. WEATHER CONDITION - UNFAVORABLE WIND
2. WEATHER CONDITION - HIGH WIND
3. WEATHER CONDITION - GUSTS
4. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
5. GROUND LOOP/SWERVE - UNCONTROLLED
Occurrence #2 NOSE OVER
Phase of Operation LANDING

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: DIRECTIONAL CONTROL NOT MAINTAINED BY THE PILOT. UNFAVORABLE WIND, HIGH WIND, AND GUSTS WERE CONTRIBUTING FACTORS.

----Probable Cause----

Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraf SUBSTA	t Damage	Fatal	Injuries Serious Mi	nor	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 - CESSNA 175A Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2350 No. of Seats - 4	Eng Make/Model - CC Number Engines - 1 Engine Type - RE Rated Power	 	S	Installed/Activ tall Warning Sy		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFIN Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/030 KTS Visibility - 30.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	SAME AS ACC/INC Destination INYOKERN,CA ATC/Airspace Type of Flight Plan Type of Clearance	- NONE	OFF AI Airport D MOJAVE Runway Runway Runway			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,SE SEA	Age - 48 Biennial Flight Review Current - YES Months Since - 11 Aircraft Type - C-175	Total - Make/Model-	ht Time (H 3950 210		- s- s-	.IMIT 1 22 58 0
Instrument Rating(s) - NONE						

File No. - 583 5/11/89 MOJAVE,CA A/C Reg. No. N7002E Time (Lc1) - 1640 PDT

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

Finding(s)

1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND
2. WEATHER CONDITION - HIGH WIND
3. WEATHER CONDITION - CROSSWIND
4. WEATHER CONDITION - GUSTS

Occurrence #2 NOSE OVER Phase of Operation TAXI - TO TAKEOFF

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING/PREPARATION, AND THE PILOT'S DISREGARD OF THE WIND INFORMATION.

----Probable Cause----

		g. No. N5368V	·	ime (Lcl) -	10-10 10	
-Basic Information						
Type Operating Certificate-NONE (GENERAL AVIAT				Injur		
	SUBSTAN		Fatal		Minor	None
Type of Operation -INSTRUCTIONAL	Fire	Crew	0	1	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	1
-Aircraft Information						
Make/Model - CESSNA T210L	Eng Make/Model - CON	FINENTAL TSIO-520-				
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1		S	tall Warnir	ig System	- YES
Max Gross Wt - 3800	J , ,	IP-FUEL INJECTED				
No. of Seats - 5	Rated Power -	285 HP 				
-Environment/Operations Information				B		
	inerary		ON AIR	Proximity		
	Last Departure Point		UN AIR	PUKI		
	SAME AS ACC/INC		1 : mm = m + D			
•	Destination		Airport D	ata		
Basic Weather - VMC Wind Dir/Speed- 320/012 KTS	LOCAL		CABLE	Ident -	24	
· ·	C/Airspace			Lth/Wid -		75
	Type of Flight Plan -	NONE		Surface -		75
	Type of Clearance -				DRY	
		TRAFFIC PATTERN	Kuriway	Status	DKI	
Precipitation - NONE		FORCED LANDING				
Condition of Light - DAYLIGHT		TOROLD LANDING				
Pilot-In-Command Age -	39	Medical Certificat	e - VALID	MEDICAL-NO	WAIVERS,	/LIMIT
Certificate(s)/Rating(s) Bienni	al Flight Review	Fligh	nt Time (H	ours)		
COMMERCIAL, CFI Cu	ırrent - YES	Total -	502	Last 24	Hrs -	0
	onths Since - O	Make/Model-	20	Last 30	Days-	120
A f	rcraft Type - UNK/NR	Instrument-	69	Last 90		165
		Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - AIRPLANE						
-Narrative						
CORDING TO THE INSTRUCTOR PILOT, THE DUAL STUDENT						
TRUMENT RATINGS. THIS WAS TO BE A STANDARD CHECKO					ī	
RWORK, INCLUDING THREE LANDINGS TO FULL STOP AT AN					1	
N THE ENGINE QUIT. THE PRIVATE DUAL STUDENT DID N						
STRUCTOR TOOK CONTROL OF THE AIRPLANE. AT THAT POI						
INSTRUCTOR MADE THE AIRPORT BUT IMPACTED IN A NO						
RWARD AND WAS IMBEDDED WITHIN THE BOTTOM OF THE F					1	
E LEFT FUEL TANK AND THAT TANK WAS EMPTY. THE RIGH					i	
PACT SEQUENCE, A BEECH 19, N6553R, THAT WAS TIED D	JOWN AND WAS UNDCCUPIE	J, WAS SIKUCK BY I	HE ACCIDE	NI AIRPLANE	· •	

5/12/89 A/C Reg. No. N5368V Time (Lc1) - 1340 PDT File No. - 596 UPLAND, CA LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Occurrence #1 Phase of Operation APPROACH Finding(s) 1. FLUID, FUEL - STARVATION 2. IN-FLIGHT PLANNING/DECISION - INADEQUATE - PILOT IN COMMAND(CFI) 3. FUEL TANK SELECTOR POSITION - IMPROPER - DUAL STUDENT 4. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. LANDING GEAR, NOSE GEAR - COLLAPSED ON GROUND COLLISION WITH OBJECT Occurrence #4 Phase of Operation LANDING - ROLL Finding(s) 6. OBJECT - AIRCRAFT PARKED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE IN-FLIGHT PLANNING/DECISION BY THE PILOT IN COMMAND, THE INSTRUCTOR PILOT. FACTORS WERE THE PRIVATE PILOT DID NOT SWITCH THE FUEL TANKS AND THE INSTRUCTOR DID NOT CATCH IT.

Type of Operation	File No 597 5/19/89 PLACE	RVILLE,CA	A/C Reg.	No. N76675		ſime (Lcl) -	- 1400 PD1	Γ
SUBSTANTIAL Fatal Serious Minor N Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 Accident Occurred During -TAKEOFF -Aircraft Information Make/Model - CESSNA 140 Landing Gear - TAILWHEEL-ALL FIXED MAX Gross Wt - 1500 No. of Seats - 2 Eng Make/Model - CONTINENTAL C-85 ELT Installed/Activated - UN Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR No. of Seats - 2 Engine Type - RECIPROCATING-CARBURETOR No. of Seats - 2 Itinerary Airport Proximity Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - WC RED BLUFF, CA Wind Dir/Speed-200/007 KTS Visibility - 20.0 SM ATC/Airspace Runway Information - NEED BLUFF, CA Lowest Sky/Clouds - UNK/NR Lowest Sky/Clouds - UNK/NR Destination - NONE Condition of Light - DAYLIGHT -Personnel Information Priot-In-Command Ape - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI SE LAND Months Since - 1 Make/Model - 11 Last 30 Days - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative		L AVIATION)	Aircraft Da	mage		Iniur	·ies	
Type of Operation	,, ,				Fatal			None
Accident Occurred During -TAKEOFF -Aircraft Information Make/Model - CESSNA 140	Type of Operation -PERSONAL		Fire	Crew	0			1
-Aircraft Information Make/Model - CESSNA 140 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 No. of Seats - 2 Rated Power - 85 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 200/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Sky/Clouds - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND -Narrative -Narrative -Narrative Eng Make/Model - CONTINENTAL C-85 ELT Installed/Activated - UN Number Engines - 1 Stall Warning System - NO Stall Warning System - NO Aliport Proximity Stall Parked - UN Stall Warning System - NO Aliport Proximity OFF AIRPORT/STRIP SAME AS ACC/INC Destination Airport Data A			NONE	Pass	0	0	0	0
Make/Model - CESSNA 140 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 No. of Seats - 2 Finy in memory (perations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 200/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR Destination - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Eng Make/Model - CONTINENTAL C-85 Stall Warning System - NO Number Engines - 1 Stall Warning System - NO Stall Warning System - NO Stall Warning System - NO Airport Proximity OFF AIRPORT/STRIP SAME AS ACC/INC Destination Airport Data Airport Data PLACERVILLE RED BLUFF, CA PLACERVILLE RUMWay Ident - 23 ATC/Airspace Runway Lth/Wid - 4200/ 75 Type of Clearance - NONE Runway Sufface - ASPHALT Type of Clearance - NONE Runway Status - DRY Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Flight Review Current - YES Total - 347 Last 24 Hrs - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Notorcraft - UNK/NR Multi-Eng - UNK/NR Notorcraft - UNK/NR	Accident Occurred During -TAKEOFF							
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 Max Gross Wt - 1500 No. of Seats - 2 Rated Power - 85 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 200/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - Type of Flight Plan - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Airport Proximity Off AIRPORT/STRIP SAME AS ACC/INC Destination Airport Data RED BLUFF, CA PLACERVILLE Runway Ident - 23 ATC/Airspace Runway Lth/wid - 4200/ 75 Type of Flight Plan - NONE Type of Flight Plan - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Biennial Flight Review Current - YES Total - 347 Last 24 Hrs - UNK/NR Malti-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR								
Max Gross Wt - 1500 No. of Seats - 2 Rated Power - 85 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wind Dir/Speed - 200/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UMK/NR Lowest Ceiling - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL COMMERCIAL SE LAND Instrument Rating(s) - AIRPLANE -Marrative						•		•
No. of Seats - 2 Rated Power - 85 HP -Environment/Operations Information Weather Data Wethod	Landing Gear - TAILWHEEL-ALL FIXED					Stall Warnir	ng System	- NO
-Environment/Operations Information Weather Data					ETOR			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A SAME AS ACC/INC SAME AS ACC/INC Airport Data Basic Weather - VMC RED BLUFF,CA RUNway Ident - 23 Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - 4200/ 75 Lowest Sky/Clouds - UNK/NR Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Aircraft Type - 7KCAB Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Multi-Eng - UNK/NR Mul	No. of Seats - 2	Rated Pov	<i>l</i> er - 85	HP 				
Wx Briefing - NO RECORD OF BRIEFING Method - N/A SAME AS ACC/INC Completeness - N/A Destination Airport Data Basic Weather - VMC RED BLUFF,CA PLACERVILLE Wind Dir/Speed- 200/007 KTS Visibility - 20.0 SM ATC/Airspace Runway Ident - 23 Lowest Sky/Clouds - UNK/NR Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Aircraft Type - 7KCAB Instrument- UNK/NR Last 90 Days- UNK/NR Instrument Rating(s) - AIRPLANE -Narrative								
Method - N/A		•						
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 200/007 KTS Visibility - 20.0 SM Lowest Sky/Clouds - UNK/NR Lowest Sky/Clouds - UNK/NR Obstructions to Vision- Percipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Age - 36 Current - YES COMMERCIAL SE LAND Destination RED BLUFF, CA RUNway Ident - 23 Runway Itent - 23 Runway Lth/Wid - 4200/ 75 Runway Surface - ASPHALT Type of Clearance - NONE Runway Surface - ASPHALT Runway Indicaton R	-				OFF A	[RPORT/STRIF	•	
Basic Weather - VMC	• •		•			. ,		
Wind Dir/Speed- 200/007 KTS Visibility - 20.0 SM ATC/Airspace Runway Ident - 23 Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - 4200/ 75 Lowest Sky/Clouds - UNK/NR Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - Type of Clearance - NONE Runway Surface - ASPHALT Dobstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL SE LAND Current - YES Total - 347 Last 24 Hrs - UNK/NR Months Since - 1 Make/Model- 11 Last 30 Days- UNK/NR Aircraft Type - 7KCAB Instrument - UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE								
Visibility - 20.0 SM ATC/Airspace Runway Lth/Wid - 4200/ 75 Lowest Sky/Clouds - UNK/NR Type of Flight Plan - NONE Runway Surface - ASPHALT Lowest Ceiling - Unk/NR Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model- 11 Last 30 Days- UNK/NR Aircraft Type - 7KCAB Instrument- UNK/NR Last 90 Days- UNK/NR Instrument Rating(s) - AIRPLANE -Narrative		KED BLUF	F,CA					
Lowest Sky/Clouds - UNK/NR Type of Flight Plan - NONE Runway Surface - ASPHALT 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 - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model - 11 Last 30 Days- UNK/NR Aircraft Type - 7KCAB Instrument UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative		ATC/Airspace	.					75
Lowest Ceiling - 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 - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model- 11 Last 30 Days- UNK/NR Aircraft Type - 7KCAB Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative		•		NF				73
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model- 11 Last 30 Days- UNK/NR Aircraft Type - 7KCAB Instrument UNK/NR Last 90 Days- UNK/NR Instrument Rating(s) - AIRPLANE -Narrative								
Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model - 11 Last 30 Days - UNK/NR Aircraft Type - 7KCAB Instrument - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative								
-Personnel Information Pilot-In-Command Age - 36 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMI Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Make/Model - 11 Last 30 Days - UNK/NR Aircraft Type - 7KCAB Instrument - UNK/NR Last 90 Days - UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE		31 1 ,	.5					
Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) Age - 36 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - 7KCAB Instrument Rating(s) - AIRPLANE Neg - 36 Biennial Flight Review Flight Time (Hours) Current - YES Total - 347 Make/Model- 11 Last 30 Days- UNK/NR Instrument- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE								
Certificate(s)/Rating(s) COMMERCIAL CURRENT - YES Total - 347 Last 24 Hrs - UNK/NR SE LAND Months Since - 1 Aircraft Type - 7KCAB Instrument Rating(s) - AIRPLANE -Narrative	Personnel Information							
SE LAND Months Since - 1 Aircraft Type - 7KCAB Instrument- UNK/NR Last 30 Days- UNK/NR Aircraft Type - 7KCAB Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE		Age - 36	Med) WAIVERS/	/LIMIT
SE LAND Months Since - 1 Aircraft Type - 7KCAB Instrument- UNK/NR Last 30 Days- UNK/NR Aircraft Type - 7KCAB Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE		Biennial Flight	Review	Flig	nt Time (Ł	Hours)		
Aircraft Type - 7KCAB Instrument- UNK/NR Last 90 Days- UNK/NR Multi-Eng - UNK/NR Rotorcraft - UNK/NR Instrument Rating(s) - AIRPLANE		Current	- YES	Total -	347	Last 24	Hrs - UN	NK/NR
Instrument Rating(s) - AIRPLANE 	SE LAND		e - 1	Make/Model-	11	Last 30	Days- UN	NK/NR
Instrument Rating(s) - AIRPLANE 		Aircraft Typ	e - /KCAB	Instrument- U	NK/NR	Last 90	Days- UN	NK/NR
-Narrative				Murti-Eng - U	NK/NK	Rotorer	art - ur	NK/NK
	Instrument Rating(s) - AIRPLANE							
T AT LIFTOFF, THE RIGHT TIRE BLEW AND DIRECTIONAL CONTROL WAS LOST. RATHER THAN GOING TOTALLY OFF THE SIDES	Nanativo							
		CTIONAL CONTROL W	INS LOST DATHE	P THAN COING T	TALLY OF	THE SIDES		
GOING DOWN A HILL, THE PILOT INTENTIONALLY NOSED THE AIRPLANE OVER TO THE INVERTED POSITION.						THE SIDES		

File No 5	97 5/19/89 	PLACERVILLE, CA	A/C Reg. N	lo. N76675	Time (Lcl) - 1400 PDT
Occurrence #1 Phase of Operation		NT/SYSTEM FAILURE/MAL RUN	FUNCTION		
Finding(s) 1. LANDING GEAR,TI	RE - FAILURE,PARTI	AL			
Occurrence #2 Phase of Operation					
Finding(s) 2. GROUND LOOP/SWE	RVE - INADVERTENT	- PILOT IN COMMAND			
Occurrence #3 Phase of Operation		RUN			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: TOTAL FAILURE OF THE LANDING GEAR TIRE. A MAJOR FACTOR WAS THE UNSUITABILITY OF THE TERRAIN AT THE SIDE OF THE RUNWAY.

-Basic Information							
Type Operating Certificate-NONE (GENERA	_ AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Injur Serious	ies Minor	None
Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	- -	Fire NONE	Crew Pass	0	0 0	1 0	0
Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number E Engine T	e/Model - LYCOMING 0-2 ingines - 1 iype - RECIPROCATIN ower - 115 HP		S	Installed/A tall Warnin		
-Environment/Operations Information							
Wx Briefing - NO RECORD OF BRIEFING Method - N/A		rture Point ACC/INC		Airport ON AIR	Proximity PORT		
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	LOCAL				AN FIELD		
Wind Dir/Speed- 260/009 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling -		e light Plan - NONE learance - NONE		Runway Runway	Ident - Lth/Wid - Surface - Status -	ASPHALT	150
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type Apch	/Lndg - NONE					
Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 19 Biennial Flight			e - VALID t Time (H	MEDICAL-WA ours)	IVERS/LIM	ΙT
STUDENT	Current		<u> </u>	20	Last 24	Hrs - UN	K/NR
	Months Sinc Aircraft Ty				Last 30 Last 90		
Instrument Rating(s) - NONE							
·Narrative							
STUDENT PILOT WAS ON HIS THIRD SOLO FLIGHT							
R THE LEFT SIDE OF THE RUNWAY AND STRUCK A E GEAR COLLAPSED, THE RIGHT WHEEL BROKE OF				J THE GRO	UND AND THE		

File No 5	92 5/26/89 	CONCORD, CA	A/C Reg. No. N24521	Time (Lcl) - 1700 PDT	
Occurrence #1 Phase of Operation					
	FOR WIND CONDITION	S - INADEQUATE - P NED - PILOT IN COM			
Occurrence #2 Phase of Operation					
Finding(s) 4. OBJECT - SIGN					
Occurrence #3 Phase of Operation			ATER		
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: STUDENT PILOT HAD NOT ATTAINED COMPENSATION FOR THE CROSSWIND, AND LOST CONTROL OF THE AIRPLANE.

	L AVIATION) Aircra	ft Damage		Injur	ies	
Type of Operation -PERSONAL	DESTR Fire	OYED Cre	Fatal w O	Serious O	Minor 1	None O
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	NONE	Pas	is 0	0	0	Ö
-Aircraft Information Make/Model - CESSNA 177 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2350 No. of Seats - 4	Eng Make/Model - L Number Engines - Engine Type - R Rated Power -	YCOMING O-32O-E2D 1 ECIPROCATING-CARBU 150 HP	ELT S RETOR		ctivated g System	- YES
-Environment/Operations Information Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A		t	ON AIF			
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport [MUNIC]			
Wind Dir/Speed- 250/015 KTS			Runway	/ Ident -	26	
Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR	ATC/Airspace	- NONE	Runway	/ Lth/Wid - / Surface -		150
Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Flight Plan Type of Clearance Type Apch/Lndg			Status -		
-Personnel Information Pilot-In-Command	A =	Madical Contific		MEDICAL MA	TVEDC / L TA	
	Age - 65 Biennial Flight Review	Medical Certific	abt Time (F	tours)		111
PRIVATE	Current - YES	Total -	3705	Last 24	Hrs -	1
SE LAND	Current - YES Months Since - 17 Aircraft Type - C-177	Make/Model- Instrument-	48 265	Last 30 Last 90	Days- Days-	5 11
Instrument Rating(s) - NONE						
	AKING A TOUCH AND GO LANDI NORMAL BUT THE AIRPLANE FE	NG AND AFTER TAKED LT AS IF IT WERE M	FF, THE AIF USHING. HE	RPLANE WOULD DECIDED TO		

File No. - 591 6/17/89 BANNING, CA A/C Reg. No. N29339 Time (Lc1) - 1445 PDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. WEATHER CONDITION TEMPERATURE EXTREMES
- 2. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 3. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 4. AIRSPEED INADEQUATE PILOT IN COMMAND
- 5. TERRAIN CONDITION DIRT BANK
- 6. ABORTED TAKEOFF INADEQUATE PILOT IN COMMAND
- 7. DISTANCE INADEQUATE PILOT IN COMMAND
- 8. LANDING GEAR, NOSE GEAR COLLAPSED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING/PREPARATION BY THE PILOT.

nor None O 1 O 1 sted - YES-UNK/ stem - YES
0 1 0 1
0 1
ited - YES-UNK/
stem - YES
50/ 70
IALT
/ERS/LIMIT
- UNK/NR
s- UNK/NR
s- UNK/NR
- ∨

File No 5	95 6/17/89	FALLBROOK,CA	A/C Reg.	No. N6084P	Time (Lc1) - 0810 PDT
Occurrence #1 Phase of Operation			MECHANICAL		
Finding(s) 1. GO-AROUND - ATT 2. THROTTLE/POWER	_	COMMAND USE OF - PILOT IN C	COMMAND		
Occurrence #2 Phase of Operation		· ·	ER		
Occurrence #3 Phase of Operation		D			
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT DID NOT FOLLOW PROCEDURES/DIRECTIVES IN AS MUCH AS HE PUSHED THE THROTTLE FORWARD TOO FAST AND THE ENGINE WAS NOT ABLE TO RESPOND.

Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION)	Aircraft Da	_		Injur		
		SUBSTANTI		Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Cre Pas	-	0	0 0	1
Aircraft Information							V55 /
Make/Model - CESSNA 150 Landing Gear - TRICYCLE-FIXED		Model - CUNIII Igines - 1	NENTAL 0-200A		Installed/A tall Warnir		
Max Gross Wt - 1500	Engine Ty	•	ROCATING-CARBU		itali warilii	ig system	- 163
No. of Seats - 2	Rated Pow	•					
Environment/Operations Information							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFIN		ture Point		OFF AI	RPORT/STRIF	•	
Method - N/A Completeness - N/A	LAKEPORT Destination	•		Airport D	ata		
Basic Weather - VMC	LOCAL	•		Amport	4.4		
Wind Dir/Speed- CALM				Runway	Ident -	N/A	
Visibility - 25.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ight Plan - N			Surface -		JRF
Lowest Ceiling - NONE		earance - N		Runway	Status -	DRY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/	Lnag - Fi	DRCED LANDING				
Precipitation - NONE Condition of Light - DUSK							
Personnel Information							
Pilot-In-Command	Age - 30	Me	dical Certific	ate - VALID	MEDICAL-WA	IVERS/LIM	1IT
Certificate(s)/Rating(s)	Biennial Flight			ght Time (F		•	
COMMERCIAL, CFI	Current	- YES	Total -		Last 24		0
SE LAND, ME LAND	Months Since		Make/Model-	178	Last 30	Days-	22
	Aircraft Typ	e - UNK/NR	Instrument-	0	Last 30 Last 90 Rotorcr	Days-	22
			Multi-Eng -	21	Rotorcr	`aft -	0
Instrument Rating(s) - AIRPLANE							
Narrative							
PILOT SAID HE CHECKED THE FUEL TANKS BY							
LLONS, THAT HE THOUGHT WOULD BE GOOD FOR						-	
OOS PDT AND CRASHED AT 2050 PDT. THE PI						`C	
ENGINE PROBLEM SO HE MADE A FORCED LAND. . POST ACCIDENT INSPECTION INDICATED NO						, <u>C</u>	
LEFT FUEL TANK. A CONSERVATION FUEL CONS	SOME LIGHT FIGURE FOR	. 1013 1166 66					

File No 5	94 7/01/89	KELSEYVILLE, CA	A/C Reg. No. N5712E	Time (Lc1) - 2050 PDT	
Occurrence #1 Phase of Operation		POWER(TOTAL) - NON-MECH	ANICAL		
2. FLUID,FUEL - EX	HAUSTION	INADEQUATE - PILOT IN - IMPROPER - PILOT IN C		·;	
Occurrence #2 Phase of Operation					
Occurrence #3 Phase of Operation		SION WITH OBJECT			
Finding(s) 4. OBJECT - POLE					
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING/PREPARATIONS AND THE IMPROPER FUEL CONSUMPTION CALCULATIONS BY THE PILOT.

ED Number 6 Engine	SUBSTANTIA Fire NONE	L Crew Pass 	O ELT	0 0	es Minor O O	None 1 0
137 ERING Eng Make ED Number E	Fire NONE	Crew Pass 1340-AN-1	O O 	0 0	0	1
137 ERING Eng Make ED Number E	NONE Model - P&W R- Engines - 1 Type - RECIPR	Pass 1340-AN-1	O ELT	0	-	
ERING Eng Make ED Number (Engine	e/Model - P&W R- Engines - 1 Type - RECIPR	1340-AN-1	ELT		0	O
Eng Make ED Number E Engine ⁻	Engines - 1 Type - RECIPR					
ED Number 6 Engine	Engines - 1 Type - RECIPR			[n=+=1]== /A=		
ED Number 6 Engine	Engines - 1 Type - RECIPR			r.a / . a		
Engine ⁻	Type - RECIPR					
				tall Warning	System	- YES
Rated Po			TOR			
	ower - 600	HP				
Itinerary			Airport	Proximity		
IEFING Last Depa	arture Point		OFF AI	RPORT/STRIP		
WILLOWS	S,CA					
Destinatio	on					
LOCAL			WILLOW	S AIRPORT		
						JRF
Type of (Clearance - NO	NE	Runway	Status -	DRY .	
Type Apcl	n/Lndg - FO	RCED LANDING				
T						
	Med	ical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	'LIMIT
Biennial Fligh [.]	t Review	Fligh	it Time (H	ours)		
	- YES	Total -	9099	Last 24		
	ce - 11	Make/Model- UN	IK/NR	Last 30	Days-	
Aircraft Ty	/pe - C-172	Instrument- UN	IK/NR	Last 90	Days-	450
		Multi-Eng - UN	IK/NR	Rotorcra	ft - UN	IK/NR
ANE						
	IEFING Last Department WILLOWS Destination LOCAL ATC/Airspace Type of Four Type of Control Type Apch T Age - 32 Biennial Flight Current Months Since Aircraft Type	IEFING Last Departure Point WILLOWS,CA Destination LOCAL ATC/Airspace Type of Flight Plan - NO Type of Clearance - NO Type Apch/Lndg - FO T Age - 32 Med Biennial Flight Review Current - YES Months Since - 11 Aircraft Type - C-172	IEFING Last Départure Point WILLOWS,CA Destination LOCAL ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FORCED LANDING T Age - 32 Medical Certificat Biennial Flight Review Current - YES Total - Months Since - 11 Make/Model - UN Aircraft Type - C-172 Instrument - UN Multi-Eng - UN	IEFING Last Departure Point WILLOWS,CA Destination Airport Date LOCAL WILLOWS ATC/Airspace Runway Type of Flight Plan - NONE Runway Type of Clearance - NONE Runway Type Apch/Lndg - FORCED LANDING T Age - 32 Medical Certificate - VALID Biennial Flight Review Flight Time (Hocal Current - YES Total - 9099) Months Since - 11 Make/Model - UNK/NR Aircraft Type - C-172 Instrument - UNK/NR Multi-Eng - UNK/NR	IEFING Last Departure Point WILLOWS,CA Destination LOCAL WILLOWS AIRPORT ATC/Airspace Runway Ident - Runway Lth/Wid - Runway Surface - Runway Surface - Runway Status - Type of Clearance - NONE Runway Status - Type Apch/Lndg - FORCED LANDING T Age - 32 Medical Certificate - VALID MEDICAL-NO Biennial Flight Review Flight Time (Hours) Current - YES Total - 9099 Last 24 Months Since - 11 Make/Model - UNK/NR Last 30 Maircraft Type - C-172 Instrument - UNK/NR Last 90 Multi-Eng - UNK/NR Rotorcra	IEFING Last Departure Point WILLOWS,CA Destination LOCAL Airport Data Runway Ident - N/A ATC/Airspace Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - FORCED LANDING Age - 32 Biennial Flight Review Current - YES Months Since - 11 Make/Model- UNK/NR Aircraft Type - C-172 Medical Certificate - VALID MEDICAL-NO WAIVERS/ Multi-Eng - UNK/NR Rotorcraft - UN

File No. - 512 7/04/89 WILLOWS,CA A/C Reg. No. N3627G Time (Lc1) - 0900 PST

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation MANEUVERING - AERIAL APPLICATION

Finding(s)

1. ENGINE ASSEMBLY,CYLINDER - FAILURE,PARTIAL

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

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE CONNECTING ROD ON #1 CYLINDER OF THE AIRCRAFT POWERPLANT.

Type of Operation	-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft [Injur		
Flight Conducted Under							_	Minor	
-Aircraft InformationMake/Model - PIPER PA-38-112		L				-			
Make/Model - PIPER PA-38-112 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 NO. of Seats - 2 Max Gross Wt - 1670 NO. of Seats - 2 Engine Type - RECIPROCATING-CARBURETOR NO. of Seats - 2 Engine Type - RECIPROCATING-CARBURETOR NO. of Seats - 2 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 110 HP Finitronment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed 340/005 KTS Wisibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Dostination - NONE Condition of Light - DaYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model - LYCOMING 0-235-L2C Etal Installed/Activated - YES/NU Stall Warning System - YES Airport Proximity DF Airport Proximity OF Airport			NONE		Pass	0	0	0	0
Landing Gear - TRICYCLE-FIXED	-Aircraft Information								
Max Gross Wt - 1670 No. of Seats - 2 Rated Power - 110 HP	•								
-Environment/Operations Information Weather Data Itinerary						St	all Warnir	ng System	- YES
-Environment/Operations Information Weather Data Itinerary Airport Proximity Wx Briefing - NO RECORD OF BRIEFING ASAN CARLOS, CA Completeness - N/A Destination Airport Data Basic Weather - VMC HOLLSTER, CA FRAZIER LAKE AIRPARK Wind Dir/Speed- 340/005 KTS Visibility - 25.0 SM ATC/Airspace Runway Ident - 25 Visibility - 25.0 SM ATC/Airspace Runway Lith/Wid - 2500 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision - NONE Type of Clearance - NONE Runway Status - DRY Precipitation - NONE Type Apch/Lndg - SIMULATED FORCED LANDINGPersonnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model - 10 Last 30 Days - 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days - 12 Multi-Eng - 50 Instrument Rating(s) - AIRPLANENarrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE					RBURETOR				
Weather Data Literary Last Departure Point OFF AIRPORT/STRIP We Briefing - NO RECORD OF BRIEFING Method - N/A Destination Airport Data Basic Weather - VMC HOLLISTER,CA FRAZIER LAKE AIRPARK Wind Dir/Speed- 340/005 KTS Runway Ident - 25 Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - 2500 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Dbstructions to Vision- NONE Type of Clearance - NONE Runway Status - DRY Precipitation - NONE Type Apch/Lndg - SIMULATED FORCED LANDING Presonnel Information	No. of Seats - 2	Rated Powe	er - 1º	10 HP 		- 			
Wx Briefing - NO RECORD OF BRIEFING Method - N/A SAN CARLOS,CA Completeness - N/A Destination Airport Data Basic Weather - VMC HOLLISTER,CA FRAZIER LAKE AIRPARK Wind Dir/Speed- 340/005 KTS Runway Ident - 25 Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - 2500 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 Months Since - 1 Make/Model- 10 Last 30 Days- 6 Aircraft Type - UNK/NR Instrument- 550 Last 90 Days- 12 Multi-Eng - 50									
Method - N/A Destination Airport Data Basic Weather - VMC HOLLISTER.CA FRAZIER LAKE AIRPARK Wind Dir/Speed- 340/005 KTS Runway Ident - 25 Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - 2500 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - SIMULATED FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 SE LAND,ME LAND,SE SEA Months Since - 1 Make/Model - 10 Last 30 Days - 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days - 12 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE					Air	oort P	roximity		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/005 KTS Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Obstructions to Vision- NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND,SE SEA Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Commercial SE LAND,ME LAND,SE SEA Months Since - 1 Make/Model- 10 Make/Model- 10 Make/Model- 10 Make/Model- 10 Make/Model- 10 Make/Model- 50 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FURGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	Wx Briefing - NO RECORD OF BRIEFING	Last Depar	ture Point		0	FF AIR	PORT/STRIF)	
Basic Weather - VMC Wind Dir/Speed- 340/005 KTS Visibility - 25.0 SM ATC/Airspace Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND,ME LAND,SE SEA Biennial Flight Review Current - YES Months Since - 1 Make/Model- 10 Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANDTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	Method - N/A	SAN CARLO	OS,CA						
Wind Dir/Speed- 340/005 KTS Visibility - 25.0 SM ATC/Airspace Runway Ident - 25 Visibility - 25.0 SM ATC/Airspace Runway Status - GRASS/TURF Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - SIMULATED FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model- 10 Last 24 Hrs - 2 SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model- 10 Last 30 Days- 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days- 12 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	Completeness - N/A				Airp	ort Da	ıta		
Visibility - 25.0 SM ATC/Airspace Runway Lth/Wid - 2500 Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - SIMULATED FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model- 10 Last 30 Days - 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days - 12 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FIIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE		HOLLISTER	R,CA		F	RAZIER	R LAKE AIRF	PARK	
Lowest Sky/Clouds - CLEAR Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - NONE Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - SIMULATED FORCED LANDING Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 SE LAND,ME LAND,SE SEA Months Since - 1 Make/Model- 10 Last 30 Days- 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days- 12 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FIIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE									
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Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 63 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL Current - YES Total - 9100 Last 24 Hrs - 2 SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model - 10 Last 30 Days - 6 Aircraft Type - UNK/NR Instrument - 550 Last 90 Days - 12 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE						-	Status -	DRY	
Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command		Type Apch/l	_ndg - S	SIMULATED FO	RCED LAND	ING			
-Personnel Information Pilot-In-Command	· · · · - · · · · · · · · · · · · · · · · · ·								
Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA Instrument Rating(s) - AIRPLANE - Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	Condition of Light - DAYLIGHI								
Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND, SE SEA Months Since - 1 Aircraft Type - UNK/NR Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE									
COMMERCIAL SE LAND, ME LAND, SE SEA Months Since - 1 Make/Model - 10 Last 30 Days - 6 Aircraft Type - UNK/NR Instrument - 550 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE		_						IIVERS/LIN	4 I I
SE LAND, ME LAND, SE SEA Months Since - 1 Aircraft Type - UNK/NR Instrument- 550 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE			Review						
Aircraft Type - UNK/NR Instrument- 550 Last 90 Days- 12 Multi-Eng - 50 Instrument Rating(s) - AIRPLANE -Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE									
Multi-Eng - 50 Instrument Rating(s) - AIRPLANE	SE LAND, ME LAND, SE SEA								
-Narrative FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE		Aircraft Type	e - UNK/NK				Last 90	Days-	12
FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	Instrument Rating(s) - AIRPLANE								
FLIGHT INSTRUCTOR INITIATED A SIMULATED ENGINE FAILURE AT 3500 FEET ABOVE MEAN SEA LEVEL. THE STUDENT FORMED THE EMERGENCY PROCEDURES BUT WHEN HE TURNED FINAL HE WAS TOO HIGH TO LAND ON THE RUNWAY. THE FLIGHT TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE	-Nanna+ivo								
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TRUCTOR TOOK CONTROL OF THE AIRPLANE AND INTENDED TO MAKE ANOTHER 360 DEGREE PRIOR TO LANDING. AS SOON AS THE									
								4F	

Time (Lcl) - 1430 PDT File No. - 593 7/09/89 HOLLISTER, CA A/C Reg. No. N23916 Occurrence #1 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 1. EMERGENCY PROCEDURE - SIMULATED - PILOT IN COMMAND(CFI) 2. PLANNED APPROACH - POOR - DUAL STUDENT Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 3. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) 4. AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND(CFI) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FLIGHT INSTRUCTOR'S FAILURE TO TAKE CORRECTIVE ACTION IN SUFFICIENT TIME TO PREVENT THE AIRPLANE FROM STRIKING THE GROUND.

Basic Information						
Type Operating Certificate-NONE (GENERAL		ft Damage		Injur		
Time of Openstion DEDCOMAL		ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass		0	0	2 0
Accident Occurred During -APPROACH	NONE	rass	O	O	O	O
Aircraft Information						
Make/Model - BEECHCRAFT C24R		YCOMING IO-360-A1B6		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines -		S	tall Warnir	ng System	- YES
Max Gross Wt - 2750 No. of Seats - 4	Engine Type - Rated Power -	ECIP-FUEL INJECTED 200 HP				
	Rated Power -	200 HP				
Environment/Operations Information Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poin	t		RPORT/STRIF	•	
Method - N/A	SAME AS ACC/INC	•	0	511.7 511121		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		PEARCE	FIELD		
Wind Dir/Speed- 270/010 KTS	,				30	
Visibility - 30.0 SM	ATC/Airspace	110115	•	•	2485/	50
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Plan Type of Clearance				MACADAM DRY	
Obstructions to Vision- NONE	Type of Creatance Type Apch/Lndg		Kuriway	Status	DKI	
Precipitation - NONE	Type Apolly Ellag	GO AROUND				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 68	Madical Cautifica	+- VAL TO	MEDICAL MA	TVEDC /L TN	
Certificate(s)/Rating(s)	Age - 68 Biennial Flight Review	Medical Certifica	ht Time (H		IVERS/LIM	11 1
PRIVATE	Current - YES	T = 4 = 1	~ 4 4	i + 0/	Hrs -	1
SE LAND	Months Since - 8	Make/Model- Instrument-	15	Last 30	Days-	1
	Months Since - 8 Aircraft Type - B=24R	Instrument-	0	Last 90	Days-	1
Instrument Rating(s) - NONE	,				·	
PILOT-IN-COMMAND AND THE SAFETY PILOT BOTH	H STATED THEY WERF MAKING	AN APPROACH TO RUNW	AY 30 WHEN	THE SINK		
OF THE AIRPLANE INCREASED. THEY APPLIED					I	
TS STATED IT WAS A DOWNDRAFT/WINDSHEAR.			- ''			

A/C Reg. No. N18789 Time (Lcl) - 1800 PDT File No. - 587 7/27/89 LOWER LAKE, CA

Occurrence #1 UNDERSHOOT

Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

- 1. WEATHER CONDITION WINDSHEAR
- 2. GO-AROUND ATTEMPTED PILOT IN COMMAND
- 3. STALL/MUSH UNCONTROLLED PILOT IN COMMAND
- 4. THROTTLE/POWER CONTROL DELAYED 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 IDENTIFY THE SINK RATE SOON ENOUGH TO TAKE CORRECTIVE ACTION.

Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft Dan SUBSTANTIAL		Fatal	Injur Serious	ies Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crev Pass		0	0	2 0
-Aircraft Information Make/Model - BELL HELICOPTER 206B Landing Gear - SKID Max Gross Wt - 3200 No. of Seats - 5	Eng Make/Mod Number Engin Engine Type Rated Power	- TURBOSH	HAFT		Installed/A tall Warnin		
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departu SAME AS ACO			Airport ON AIR	Proximity PORT		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 240/005 KTS Visibility - 5.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE	Destination LOCAL ATC/Airspace Type of Fligh Type of Clean Type Apch/Lnd	nt Plan - NON rance - NON dg - TRA		Runway Runway Runway Runway	MUNIC. ARP Ident - Lth/Wid - Surface -	UNK/NR UNK/NR	
Condition of Light - DAYLIGHT 							
Pilot-In-Command	Age - 41		cal Certifica	ate - VALIC aht Time (F		WAIVERS	/LIMIT
Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND HELICOPTER	Biennial Flight Rev Current Months Since Aircraft Type	- YES - 4 - BH-206B	Total - Make/Model- Instrument- Multi-Eng -	5600 1400 0	Last 24 Last 30 Last 90	Days-	2 22 80 4300
Instrument Rating(s) - AIRPLANE							
-Narrative ING A PRACTICE AUTOROTATION WITH A POWER REICOPTER. WHEN THE POWER RECOVERY WAS ATTEME WARNING HORN ACTIVATED AND THE HELICOPTER DES TO SEVER THE TAILBOOM. EXAMINATION OF TWED THAT THE FOUR BOLTS WERE INSTALLED BUT NUTS WERE FOUND IN THE SCUPPER DRAIN OF THE SCUPPER	PTED, THE ENGINE RES STRUCK THE GROUND THE HIGH SPEED OUTPU THE FOUR NUTS AND I	INSTRUCTOR H SPONDED TO TH IN A LEVEL AT JT DRIVESHAFT FOUR WASHERS	HE THROTTLE AF TITUDE WHICH COUPLING, TE	PPLICATION CAUSED THE	BUT THE LOW MAIN ROTOR END,		

File No. - 584 7/31/89 RIALTO, CA A/C Reg. No. N10857 Time (Lcl) - 1335 PDT

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. ROTOR DRIVE SYSTEM, ENGINE TO TRANSMISSION DRIVE SEPARATION
- 2. POWER ON LANDING NOT POSSIBLE PILOT IN COMMAND
- 3. MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PSNL
- 4. MISC ROTORCRAFT, TAIL BOOM SHEARED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE TO INSTALL TWO OF THE FOUR REQUIRED NUTS WHICH RETAIN THE HIGH SPEED COUPLING INPUT DRIVE SHAFT TO THE TRANSMISSION.

File No 585 8/06/89 DANA	POINT,CA A/C Reg	. No. N2667L	Time (Lc1)	- 1110 PDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircraft DESTROYE Fire NONE	•	Inj Fatal Serious 1 O O O	uries Minor O O	None O O
Aircraft Information Make/Model - CESSNA 172H Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2150 No. of Seats - 4	Eng Make/Model - CONT Number Engines - 1 Engine Type - RECI Rated Power - 1	PROCATING-CARBURET		/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- 250/008 KTS Visibility - 15.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	EL CAJON,CA Destination LOCAL ATC/Airspace Type of Flight Plan - Type of Clearance -	A NONE	Airport Proximity OFF AIRPORT/STR irport Data Runway Ident Runway Lth/Wid Runway Surface Runway Status	- N/A - N/A - N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Biennial Flight Review Current - UNK/NR Months Since - UNK/NR	Total - 1	Time (Hours) 500 Last /NR Last /NR Last	24 Hrs - UNK,	/NR /NR /NR
Instrument Rating(s) - NONENarrative TTNESSES OBSERVED THE AIRPLANE MAKING SLOW CHE ENGINE SOUND INCREASED. THE NOSE OF THE ABLOWLY LOOPED" OVER ONTO ITS BACK AND THEN DHE PACIFIC OCEAN NOSE FIRST. WITNESSES STATE HE ACFT WAS AT APRX 500 FT AGL WHILE CIRCLIN	IRPLANE THEN ROSE TO A NEAR V OVE NEAR VERTICALLY WHILE SLO D THE ENGINE CONTINUED MAKING	ERTICAL CLIMB AND WLY ROTATING 180 D NOISE UNTIL THE A	THE AIRPLANE EGREES AND STRIKI IRPLANE STRUCK TH	NG	

File No. - 585 8/06/89 DANA POINT,CA A/C Reg. No. N2667L Time (Lc1) - 1110 PDT

Occurrence #1 Phase of Openation

Occurrence #1 LOSS OF CONTROL - IN FLIGHT

Phase of Operation MANEUVERING

Finding(s)

1. STALL - INADVERTENT - PILOT IN COMMAND

2. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND

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

Finding(s)

3. AIRCRAFT CONTROL - NOT ATTAINED - PILOT IN COMMAND

4. TERRAIN CONDITION - WATER

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMANDS FAILURE TO MAINTAIN CONTROL OF THE AIRPLANE WHILE IN MANEUVERING FLIGHT.

File No 417 3/09/89	GOLDEN, CO	A/C Reg. No. N74	1 1N	T	ime (Lcl) -	1455 MST	
Basic Information Type Operating Certificate-ON-DEMA	AND AIR TAXI A	ircraft Damage			Injur		
		SUBSTANTIAL		Fatal	Serious	Minor	None
Type of Operation -INSTRUC	CTIONAL F	ire	Crew	0	0	0	2
Flight Conducted Under -14 CFR	91	NONE	Pass	0	0	0	0
Accident Occurred During -LANDING	ā						
Aircraft Information Make/Model - HILLER UH-12E Landing Gear - SKID Max Gross Wt - 2750 No. of Seats - 3	Number Engine	l - LYCOMING VO-5 s - 1 - RECIPROCATING - 305 HP		S.	Installed/ <i>I</i> tall Warnir		
Environment/Operations Information							
• •				Ainmont (Dnovimity		
Weather Data Wx Briefing - NO RECORD OF BRI	Itinerary [EFING Last Departure	Point			Proximity RPORT/STRIF)	
Method - N/A	BROOMFIELD, C			OFF AIR	RPURI/SIRIF		
Completeness - N/A	Destination	O		Airport Da	2+2		
Basic Weather - VMC	LOCAL			A II POI C D	ata		
Wind Dir/Speed- 140/010 KTS	LOCAL			Punway	Ident -	- N/A	
Visibility - 60.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 12000 Fl		Plan - NONE			Surface -		
Lowest Ceiling - 20000 F1					Status -		
Obstructions to Vision- NONE		- FORCED LAI	NDING	Ranway	Jtatas	N/ A	
Precipitation - NONE	Type Apeny Endg	TOROLD LA	ND I IVG				
Condition of Light - DAYLIGHT	Г						
Personnel Information							
Pilot-In-Command	Age - 42	Medical Ce	rtificat	e - VALTD	MEDICAL-WA	TVFRS/LTM	тT
Certificate(s)/Rating(s)	Riennial Flight Revi	ew.	Fliah	t Time (Ho		,	
COMMERCIAL, CFI	Current -	YES Total 7 Make/M UH-12E Instru		1897	Last 24	1 Hrs -	1
SE LAND	Months Since -	7 Make/M	odel-	350	Last 30		
HELICOPTER	Aircraft Type -	UH-12E Instru	ment-	111	Last 90	Days-	35
7,221007 72N	х ,	21,001 4.				raft -	
Instrument Rating(s) - NONE							
Narrative HE INSTRUCTOR (CFI) & DUAL STUDENT WERE							
DE TO A 6318' PINNACLE FROM THE SOUTHE							
HE CFI FLEW TO A 4' HOVER, THERE WAS A							
E CFI MADE A HOVERING AUTOROTATION, BU							
BSEQUENTLY, THE TAIL STINGER & TAIL RO							
AID HE BELIEVED THE TAIL ROTOR CONTROL							
POST-ACDNT EXAM FAILED TO REVEAL EVIDE		UR MALFUNCTION. I	NENZIIA	ALI WAS A	-KY 8600, '	ALKY / MI	
ST AT JEFFCO ARPT, THE WIND WAS FROM	140 DEG AT 10 KTS.						

File No. - 417 3/09/89 GOLDEN.CO A/C Reg. No. N7411N Time (Lcl) - 1455 MST Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation HOVER Finding(s) 1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND(CFI) 2. WEATHER CONDITION - TAILWIND 3. WEATHER CONDITION - HIGH DENSITY ALTITUDE 4. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND(CFI) Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 5. AUTOROTATION - ATTEMPTED -Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 6. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IN-FLIGHT PLANNING/DECISION BY THE CFI WHICH RESULTED IN LOSS OF TAIL ROTOR EFFECTIVENESS AND LOSS OF DIRECTIONAL CONTROL. CONTRIBUTING FACTORS WERE HIGH DENSITY ALTITUDE, TAILWIND, AND ROUGH/UNEVEN TERRAIN.

Basic Information Type Operating Certificate-NONE (GENERA							
	L AVIATION)	Aircraft D SUBSTANTI		En+-1	Inju Serious		None
Type of Operation -PERSONAL		Fire		Fatal rew O	5er 10us	Minor 1	None
Flight Conducted Under -14 CFR 91		NONE		rew 0	0	0	0
Accident Occurred During -LANDING		NOINE	۲	ass 0	O	O	U
-Aircraft Information							
Make/Model - MILLER S.A.L. 2/3 MUSTA		Model - FAIRC	HILD 6-440-C	5 EL1	Installed/		
Landing Gear - TAILWHEEL-ALL RETRACTAB		gines - 1			Stall Warni	ng System	- NO
Max Gross Wt - 2500	Engine Ty		ROCATING-CAR	BURETOR			
No. of Seats - 1	Rated Pow	er - 20	O HP				
Environment/Operations Information							
Weather Data	Itinerary				Proximity	_	
Wx Briefing - NO RECORD OF BRIEFING	•			OFF A	IRPORT/STRI)	
Method - N/A	SAME AS				5 .		
Completeness - N/A	Destination			Airport			
Basic Weather - VMC	LOCAL				COUNTY	0.0	
Wind Dir/Speed- CALM	. = 0 () .				,	- 33	
Visibility - 20.0 SM	ATC/Airspace		10115		y Lth/Wid		75
Lowest Sky/Clouds - CLEAR		ight Plan - N			y Surface		
Lowest Ceiling - NONE		earance - N			y Status	- DRY	
Obstructions to Vision- NONE	Type Apch/	Lndg - F	ORCED LANDIN	G			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 39	NA -		:+- \/A1.1	D MEDICAL AU	D MATNEDO	/
Certificate(s)/Rating(s)	Age - 39 Biennial Flight		dical Certif	light Time (J WAIVERS/	LTMII
PRIVATE	Current	- YES	F Total			4 Hrs -	1
SE LAND	Months Since		Make/Model		Last 3		4
SE LAND		e - KACHINA			Last 90		8
Instrument Rating(s) - NONE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		27.5 (* 46)	·	2451 51	, Duy	Ü
-Narrative PLT WAS ON A LOCAL FLT IN HIS HOMEBUILT 2 TTERED & QUIT. THE PLT SAID HE SWITCHED FU							
LOWED FIELD WITH THE GEAR EXTENDED. AT TOU	ICHDOWN, THE LEFT	WING STRUCK T	HE TERRAIN,	THE PLANE CA	RTWHEELED &	вотн	
S FOLDED OVER THE CANOPY. A POST ACCIDENT	ENG INSPN BY THE	OWNER & THE	BUILDER FAIL	ED TO REVEAL	. ANY EVIDEN	CE TO	
LAIN THE RPRTD ENG FAILURE.							

File No 4	33 3/18/89 ERIE,CO	A/C Reg. No. N51RM	Time (Lc1) - 1745 MST
	LOSS OF ENGINE POWER TAKEOFF - INITIAL CLIMB		
Finding(s) 1. UNDETERMINED			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
	IN FLIGHT COLLISION WITH TERRAIN/WATER LANDING - FLARE/TOUCHDOWN		
Finding(s) 2. TERRAIN CONDITION 3. TERRAIN CONDITION	·		

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

----Probable Cause----

File No 442 3/23/89 LEADV	ILLE,CO A/C Re	g. No. N5008Q	Т.	ime (Lc1) -	1130 MST	-
Type Operating Certificate-NONE (GENERA	SUBSTAN	TIAL	Fatal	Injur Serious	Minor	None
Type of Operation -FLIGHT TEST Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	Fire NONE	Crew Pass	-	0	0	2 0
Aircraft Information Make/Model - BELL 222 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 7850 No. of Seats - 3	9 7,	ISON 250-C30G BOSHAFT 650 HP		Installed/Adtall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/012 KTS Visibility - 15.0 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		ON AIRF Airport Da LEADVII Runway Runway Runway	ata _LE	ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND HELICOPTER	Age - 36 Biennial Flight Review Current - YES Months Since - 15 Aircraft Type - 206L-1	Total - Make/Model- Instrument-	ht Time (Ho 1490		Hrs - Days- Days-	'LIMIT 2 61 77 643
Instrument Rating(s) - AIRPLANE						
THE PLT & A TECHNICIAN WERE PERFORMING REARWA REARWARD HOVER TO 20 KTS, FOLLOWED BY A RIGHT WIND WAS FROM 260 DEG AT 12 KTS. THE PLT RPRT SPIN. THE PLT WAS UNABLE TO MAINTAIN ANTI-TOR TOUCHED DOWN WITH SIDEWARD MOVEMENT, COLLAPSI DRG THE GEAR FAILURE & THE TAIL ROTOR GEARBOX PROBLEM, BUT AN INSPN FAILED TO REVEAL EVIDEN WERE 9927 FT & 65 DEG, RESPECTIVELY.	PEDAL TURN TO REVERSE COURS D THAT DRG THE RIGHT TURN, T QUE CONTROL & LOWERED THE CO NG THE NOSE & LEFT MAIN GEAR WAS TORN FROM THE TAIL SECT	E & FLY AWAY. THE HE HELICOPTER ENT LLECTIVE TO LAND. THE TAIL ROTOR TON. THE PLT ORIG	PLT WAS US ERED AN UNO HOWEVER, T BLADES CONT INALLY SUSF	SING RWY 16 COMMANDED RI THE HELICOP TACTED THE F PECTED A HYL	IGHT FER RWY DRAULIC	

File No. - 442 3/23/89 LEADVILLE,CO A/C Reg. No. N5008Q Time (Lcl) - 1130 MST

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

Finding(s)

1. WEATHER CONDITION - HIGH DENSITY ALTITUDE
2. WEATHER CONDITION - UNFAVORABLE WIND
3. COMPENSATION FOR WIND CONDITIONS - MISJUDGED - PILOT IN COMMAND
4. TAIL ROTOR PEDALS - IMPROPER USE OF - PILOT IN COMMAND

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: FAILURE OF THE PILOT TO COMPENSATE ADEQUATELY FOR WIND CONDITIONS WITH RUDDER PEDALS WHILE MANEUVERING IN UNFAVORABLE WIND AND HIGH DENSITY ALTITUDE.

File No 434 3/27/89 LAMAR	R,CO A/C Reg	No. N3042Z	Time (Lc1)	- 1120 MST	
Basic Information Type Operating Certificate-NONE (GENERA		-	9	uries	
Turner of Organistics	SUBSTANT		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 - BEECH F33A	Eng Make/Model - CONTI	NENTAL IN-520-RR	ELT Installed	/Activated	- VES/NO
Landing Gear - TRICYCLE-RETRACTABLE	Number Engines - 1	NENTAL 10 320 BB	Stall Warn		
Max Gross Wt - 3022	Engine Type - RECIF	P-FILEL INJECTED	Stall Walli	ing system	11.3
No. of Seats - 5		B5 HP			
Environment/Operations Information					
Weather Data	Itinerary		Airport Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		OFF AIRPORT/STR	[P	
Method - N/A	DENVER, CO		•		
Completeness - N/A	Destination	А	irport Data		
Basic Weather - VMC	DODGE CITY,KS		•		
Wind Dir/Speed- UNK/NR			Runway Ident	- N/A	
Visibility - 15.0 SM	ATC/Airspace		Runway Lth/Wid	- N/A	
Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flight Plan - N Type of Clearance - N	IONE	Runway Surface	- N/A	
Lowest Ceiling - NONE	Type of Clearance - N	IONE	Runway Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lndg - F	RECAUTIONARY LAND	ING		
Precipitation - NONE					
Condition of Light - DAYLIGHT					
Personnel Information					
Pilot-In-Command	Age - 61 Me	edical Certificate	- VALID MEDICAL-	VAIVERS/LIM	ĮΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flight	Time (Hours)		
PRIVATE	Current - YES	Total - 1	317 Last :	24 Hrs - UN	K/NR
SE LAND	Current - YES Months Since - 12	Make/Model-	317 Last 2 20 Last 3	30 Days- UN	K/NR
	Aircraft Type - PA-28R	Instrument- UNK	/NR Last 9	00 Days- UN	K/NR
		Multi-Eng -	O Rotore	craft -	0
Instrument Rating(s) - NONE					
Narrative					
DRG A X-COUNTRY FLT THE ALTERNATOR OUT LIGHT CO. THE ACFT ARRIVED AT LAMAR WITH THE ELECTR					
WITH THE NORMAL (ELECTRICAL) SYSTEM, SO SHE E	XTENDED THE GEAR MANUALLY TO V	HAT SHE THOUGHT W	AS THE FULLY EXTER	NDED	
POSITION. SHE SAID THE ENG OIL PRESSURE GAUGE	WAS INDICATING LOW, SO SHE EL	ECTED TO LAND ON	A ROAD. DURING TH	LANDING	
ALL THREE GEAR COLLAPSED. BEFORE STOPPING, TH					
INSPN OF THE ACFT REVEALED AN ALTERNATOR BEAR					

File No. - 434

3/27/89 LAMAR, CO

A/C Reg. No. N3042Z

Time (Lcl) - 1120 MST

Occurrence #1

AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation CRUISE - NORMAL

Finding(s)

1. ELECTRICAL SYSTEM, ALTERNATOR - FAILURE, TOTAL

2. ELECTRICAL SYSTEM - INOPERATIVE

Occurrence #2

COMPLETE GEAR COLLAPSED

Phase of Operation LANDING - ROLL

Finding(s)

3. PRECAUTIONARY LANDING - INITIATED - PILOT IN COMMAND

- 4. GEAR EXTENSION IMPROPER PILOT IN COMMAND
- 5. GEAR DOWN AND LOCKED NOT ATTAINED PILOT IN COMMAND
- 6. LACK OF FAMILIARITY WITH AIRCRAFT PILOT IN COMMAND
- 7. TERRAIN CONDITION ROADWAY/HIGHWAY

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF AN ALTERNATOR BEARING WHICH RESULTED IN TOTAL LOSS OF ELECTRICAL POWER AFTER THE BATTERY BECAME DISCHARGED, AND FAILURE OF THE PILOT TO INSURE THE GEAR WAS FULLY EXTENDED DURING A PRECAUTIONARY LANDING. THE PILOT'S LACK OF FAMILIARITY WITH THE GEAR EXTENSION SYSTEM WAS A CONTRIBUTING FACTOR.

-Basic Information				Time (Lcl) - 1020 MST			
Type Operating Certificate-NONE (GENE	•	craft Damage		Injur			
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	SUE Fire NON			Serious O O	Minor O O	None 1 2	
-Aircraft Information Make/Model - CESSNA 180 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2550 No. of Seats - 4	Number Engines -	- CONTINENTAL 0-470 - 1 - RECIPROCATING-CARBU - 230 HP	RETOR	Installed/A	g System	- YES	
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFI Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- VARIABLE/010 KTS Visibility - 30.0 SM Lowest Sky/Clouds - 10000 FT SC Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary NG Last Departure Po SAME AS ACC/ING Destination LOCAL ATC/Airspace ATTERED Type of Flight Pl Type of Clearance Type Apch/Lndg	C lan - NONE	ON AIR Airport [BOULDE Runway Runway Runway	Data ER / Ident - / Lth/Wid - / Surface -		75	
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND,SE SEA	Age - 52 Biennial Flight Review Current - YES Months Since - 11 Aircraft Type - 737	S Total - Make/Model-	ght Time (F 9903 650 1350		Hrs - Days-	MIT O 72 194	
Instrument Rating(s) - AIRPLANE							

File No. - 439 3/28/89 BOULDER,CO A/C Reg. No. N4756B Time (Lc1) - 1020 MST

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

Finding(s)

1. WEATHER CONDITION - CROSSWIND

2. WEATHER CONDITION - GUSTS

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

4. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

5. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation TAKEOFF - ABORTED

Finding(s)

6. 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 INADEQUATE COMPENSATION FOR WIND CONDITIONS, FAILING TO MAINTAIN DIRECTIONAL CONTROL, AND INADVERTENT GROUND SWERVE. GUSTY CROSSWINDS CONTRIBUTED TO THE ACCIDENT.

File No 482 4/08/89 CREST	ED BUTTE, CO A/C RE	g. No. N8562X	Ti	me (Lc1) -	1300 MDT	-
Basic Information Type Operating Certificate-NONE (GENERA		_	F_+-1	Injur		Name
Tune of Openation DEDCOMAL	SUBSTAN		Fatal	Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew	0	0	1	0
Accident Occurred During -TAKEOFF	NONE	Pass	0		1	
Aircraft Information						
Make/Model - CESSNA P172D	Eng Make/Model - LYC	OMING 0-360-A4N	ELT I	nstalled/A	ctivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			all Warnin		
Max Gross Wt - 2500	Engine Type - REG	IPROCATING-CARBURE			<i>y</i> - ,	•
No. of Seats - 4		180 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport P	roximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIRP	ORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport Da	ta		
Basic Weather - VMC	LOCAL		CRESTED			
Wind Dir/Speed- UNK/NR					11	
Visibility - 15.0 SM	ATC/Airspace		•	Lth/Wid -		50
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	NONE	•	Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway		SNOW - W	/FT
Obstructions to Vision- NONE		NONE	naimay .	5.0.00	5.4011	
Precipitation - NONE	Type Apolly Ellag	,,,,,,,				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 42	Medical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fligh	nt Time (Ho	urs)		
PRIVATE	Current - YES	Total -	190	Last 24	Hrs -	1
SE LAND	Months Since - 2	Make/Model-	130	Last 30	Days-	1
	Aircraft Type - C-182D	Instrument-		Last 90		24
Instrument Rating(s) - NONE						
THE PLT & A FRIEND FLEW TO ANOTHER ARPT IN THE PLT & A FRIEND FLEW TO ANOTHER ARPT IN THE WIND SOCK & ELECTED TO LAND ON RWY 11. DRG THE EXPECTED. DUE TO THE SLOPE OF THE RWY, THE PLSLIGHT TAILWIND. THE ACFT BECAME AIRBORNE, BLBANK & NOSED OVER. THE PLT STATED THAT HE THOUSE HITTING DRIFTS THAT SLOWED IT DOWN.	HE LANDING, THE ACFT ENCTRD S T ELECTED TO TAKE OFF IN THE T WOULD ONLY CLIMB ABOUT 5 F	NOW ON THE RWY THA OPPOSITE DIRECTION T. SUBSEQUENTLY, 1	AT WAS DEEP ON (DOWNHIL :T HIT A 6	ER THAN L) WITH A FT SNOW		

File No. - 482 4/08/89 CRESTED BUTTE, CO A/C Reg. No. N8562X Time (Lcl) - 1300 MDT

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation TAKEOFF - INITIAL CLIMB

Finding(s)

1. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND

- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION SNOW COVERED
- 3. WEATHER CONDITION UNFAVORABLE WIND
- 4. TERRAIN CONDITION SNOWBANK

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 A RUNWAY WITH UNSUITABLE CONDITIONS FOR TAKING OFF. THE UNFAVORABLE WIND AND TERRAIN CONDITIONS WERE RELATED FACTORS.

-Basic Information Type Operating Certificate-NONE (GENERA		raft Damage	_		Injur		
Type of Operation -PERSONAL	SUE Fire	STANTIAL	Crew	Fatal O	Serious O	Minor 1	None 0
Flight Conducted Under -14 CFR 91	NON		Pass	0	0	Ö	0
Accident Occurred During -APPROACH							
-Aircraft Information							V=
Make/Model - PIPER PA28-180 Landing Gear - TRICYCLE-FIXED	Eng Make/Model - Number Engines -	LYCOMING 0-360-A			Installed/A tall Warnin		
Max Gross Wt - 2400		RECIPROCATING-CA			tari wariini	g System	112
No. of Seats - 4	<u> </u>	180 HP					
-Environment/Operations Information							
Weather Data	Itinerary Last Departure Po				Proximity RPORT/STRIP		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	BROOMFIELD,CO	int		UFF AI	RPURI/SIRIP		
Completeness - N/A	Destination		Air	port D	ata		
Basic Weather - VMC	LOCAL			•	SON COUNTY	AIRPORT	
Wind Dir/Speed- CALM				Runway	Ident -	29R	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -	•	100
Lowest Sky/Clouds - CLEAR	Type of Flight Pl				Surface -		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clearance Type Apch/Lndg		redn	Runway	Status -	DRY	
Precipitation - NONE	Type Apeny Endg	TRAITIC FAIT	LKN				
Condition of Light - NIGHT(DARK)							
-Personnel Information							/
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 20 Biennial Flight Review	Medical Cert	ficate - Flight			WAIVERS/	LTMII
STUDENT	Current - N/A		_	30	last 24	Hrs -	1
J. 33 E. 11	Months Since - N/A			4	Last 30	Days-	4
	Aircraft Type - N/A			O	Last 90	Days-	18
		Multi-Eng	9 -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE							
S STUDENT PLT DEPARTED THE BROOMFIELD, CO							
ER TO OBTAIN SOME NIGHT TIME FLT EXPERIENC	E. AFTER FLYING ALMOST 1	WO HRS, AND WHILE	ON APP	ROACH F	OR		
DING, THE ACFT ENGINE SUDDENLY STOPPED. AF	TER TRYING TO RESTART TH	IE ENGINE WITHOUT	SUCCESS	, THE P	LT MADE AN		

File No. - 506 6/20/89 BROOMFIELD, CO A/C Reg. No. N8419W Time (Lc1) - 0102 MDT LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - BASE TURN Finding(s) 1. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 2. FLUID, FUEL - EXHAUSTION 3. FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - EMERGENCY Finding(s) 4. LIGHT CONDITION - NIGHT

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE OF THE STUDENT TO PROPERLY PLAN THE FLT RESULTING IN FUEL EXHAUSTION.

----Probable Cause----

File No 462 7/01/89 TELLUI	RIDE,CO A/C	A/C Reg. No. N7385Y Time (Lc1) - 1130 MDT			Γ .	
Type Operation	_ AVIATION) Aircra DESTF Fire NONE	aft Damage ROYED Crew Pass	_	Injur Serious O O	ries Minor 1 O	None O O
Aircraft Information Make/Model - CESSNA R182 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3100 No. of Seats - 4	Number Engines -	RECIPROCATING-CARBUR	S ETOR	Installed/Æ	ng System	
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - PARTIAL,LMTD BY PILOT Basic Weather - VMC Wind Dir/Speed- 240/007 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poir TUCSON,AZ Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg	n - NONE	ON AIR Airport D TELLUR Runway Runway Runway	ata IDE REGIONA	- 09 - 6900/ - ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 44 Biennial Flight Review Current - YES Months Since - O Aircraft Type - C-R18	Make/Model-	ht Time (H	lours)	1 Hrs - III	NK/ND
Instrument Rating(s) - NONE						
Narrative THE PLT RPRTD THAT AS HE WAS LANDING, THE AIR! OF THE RWY. DENSITY ALTITUDE AT THE ARPT WAS TO CLEAR OVER TREES. THE ACFT THEN CRASHED TO THE FIXED BASE OPERATOR AT THE ARPT ESTIMATED LANDINGS BE MADE ON RWY 9 & TAKEOFFS BE MADE OF STRONG GUSTS ARE OFTEN ENCOUNTERED DRG LANDING UNFAVORABLE WIND NEAR THE APCH END OF RWY 9.	11,600 FT. THE PLT ATTEMP ⁻ THE GROUND & CAME TO RES ⁻ THE WIND WAS FROM 240 DEG ON RWY 27 FOR NOISE ABATEM	FED A GO-AROUND, BUT F INVERTED WITH ITS G AT 7 KTS. THE ARPT MENT REASONS. LOCAL	WAS UNABL TAIL & LEF DIRECTORY PILOTS RPR	E TO GET THE TWING TORM RECOMMENDED TO THAT SUE	HE ACFT N OFF. ED THAT DDEN	

File No. - 462 7/01/89 TELLURIDE.CO A/C Reg. No. N7385Y Time (Lcl) - 1130 MDT IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - UNFAVORABLE WIND 2. WEATHER CONDITION - TAILWIND 3. WEATHER CONDITION - CROSSWIND 4. WEATHER CONDITION - GUSTS Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - ABORTED Finding(s) 5. GO-AROUND - INITIATED -6. WEATHER CONDITION - HIGH DENSITY ALTITUDE 7. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 8. OBJECT - TREE(S) 9. PROPER ALIGNMENT - NOT MAINTAINED - 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: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT AND HIS FAILURE TO MAINTAIN RUNWAY ALIGNMENT. CONTRIBUTING FACTORS WERE WIND CONDITIONS, HIGH DENSITY ALTITUDE, AND TREES.

File No 481 7/20/89 WESTO	N,CO A/C Re	A/C Reg. No. N9038T Time (Lc1) - 0830 MDT				
Basic Information Type Operating Certificate-NONE (GENERA	•	_		Injur		
Turn of Organities DEDCOMAL	SUBSTAN		Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire	Crew	_	0	1	1
Accident Occurred During -LANDING	NONE	Pass	0	O	O	0
-Aircraft Information						
Make/Model - CESSNA 182C	Eng Make/Model - CON	TINENTAL 0-470-L		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			tall Warnin	g System -	- YES
Max Gross Wt - 2650		IPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	230 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	•		ON AIR	STRIP		
Method - N/A Completeness - N/A	TRINIDAD, CO		A			
Basic Weather - VMC	Destination SAME AS ACC/INC		Airport D	ata IS RANCH		
Wind Dir/Speed- CALM	SAME AS ACC/INC				27	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -		55
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance -				DRY	``
Obstructions to Vision- NONE	Type Apch/Lndg -					
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command		Medical Certifica			IVERS/LIMI	ΙT
Certificate(s)/Rating(s)	Biennial Flight Review	-	nt Time (F			,
PRIVATE	Current - NO	Total -		Last 24		
SE LAND	Months Since - UNK/NR			Last 30		
	Aircraft Type - UNK/NR	Instrument-	0	Last 90	Days-	6
Instrument Rating(s) - NONE						
Narrative						
PLTS WERE MOVING THE ACFT TO THE OWNER'S						
POWER. SUBSEQUENTLY, AN EMERGENCY LANDIN						
DUNTERED A DITCH & NOSED OVER. THE OWNER R	PRID THAT WATER WAS FOUND IN	THE FUEL SYSTEM I	DURTNG A P	OST ACONT T	NSDN	

File No 4	81 7/20/89	WESTON, CO	A/C Reg. No. N9038T	Time (Lc1) - 0830 MDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE PO APPROACH - VFR PA	WER(TOTAL) - NON-MECHANIO TTERN - FINAL APPROACH	CAL	
Finding(s) 1. FLUID,FUEL - WA 2. AIRCRAFT PREF	TER LIGHT - INADEQUATE	- PILOT IN COMMAND		
Occurrence #2 Phase of Operation	DESCENT - EMERGEN	CY		
Occurrence #3 Phase of Operation	ON GROUND COLLISI LANDING - ROLL	ON WITH TERRAIN/WATER		
Finding(s) 3. TERRAIN CONDITI		·		
Occurrence #4 Phase of Operation	LANDING - ROLL			
Probable Cause				
The National Transpo	rtation Safety Boar	d determines that the Pro	bable Cause(s) of this accid	ent was:

WATER IN THE FUEL AND INADEQUATE PREFLIGHT BY THE PILOT. A CONTRIBUTING FACTOR WAS THE DITCH.

File No 435 5/14/89 WOOD	OSTOCK,CT A/	C Reg. No. N11789	T	ime (Lcl) -	1220 EDT	
Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION) Airc	raft Damage		Injur	 ies	
		STANTIAL	Fatal	Serious	Minor	None
Type of Operation -INSTRUCTION			0	0	0	1
Flight Conducted Under -14 CFR 91	NON	E Pass	0	0	0	0
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 150		CONTINENTAL 0-200-A		Installed/A		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600	Number Engines - Engine Type -	1 RECIPROCATING-CARBUR		tall Warnin	g System	- YES
No. of Seats - 2	3 ,,	100 HP	TUR			
	rated Tower					
Environment/Operations Information	*******			D		
Weather Data Wx Briefing - NO RECORD OF BRIEFIN	Itinerary NG Last Departure Po	int	Airport ON AIR	Proximity		
Method - N/A	DANIELSON.CT	int	UN AIR	PURI		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	SAME AS ACC/INC		WOODST			
Wind Dir/Speed- 270/005 KTS	,,,,				19	
Visibility - 10.0 SM	ATC/Airspace	•	Runway	Lth/Wid -	2200/	75
	ATTERED Type of Flight Pl			Surface -		
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	UNK/NR	
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 - 62	Medical Certifica	VALTD	MEDICAL -NO	WATVEDS /	. TMTT
Certificate(s)/Rating(s)	Biennial Flight Review		nt Time (H		WAIVERS/	L IMII I
STUDENT	Current - N/A		•	Last 24	Hrs -	1
	Months Since - N/A			Last 30		2
	Aircraft Type - N/A		IK/NR	Last 90	Days-	8
		Multi-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE						
·Narrative			·			
PLT RPRTD THAT AS HE WAS LANDING, THE AC	CET BALLOONED & THE WIND R	LEW IT TO THE LEFT SI	JBSEQUENTI	Y. THE ACET		
CHED DOWN ON SOFT, WET TERRAIN ON THE LEF	FT SIDE OF THE RWY & NOSED	OVER. THE PLT RPRID	HE MIND M	AS GUSTING		

File No. - 435 5/14/89 WOODSTOCK,CT A/C Reg. No. N11789 Time (Lcl) - 1220 EDT

Occurrence #1 NOSE OVER

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. TERRAIN CONDITION SOFT
- 5. TERRAIN CONDITION WET

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE COMPENSATION FOR WIND CONDITIONS BY THE PILOT WHICH RESULTED IN NOT MAINTAINING PROPER ALIGNMENT WITH THE RUNWAY. THE CROSSWIND AND SOFT/WET TERRAIN WERE CONTRIBUTING FACTORS.

	OCALA, FL A	/C Reg. No. N8350V	T ·	ime (Lcl) -	1345 EST	
Basic Information Type Operating Certificate-NONE (G		craft Damage BSTANTIAL	Fatal	Injur Serious		None
Type of Operation -PERSONA		_ =	0	0	1	0
Flight Conducted Under -14 CFR		INE Pass	Ô	Ö	Ö	Ö
Accident Occurred During -LANDING		Other	Ö	Ö	1	Ö
Aircraft Information						
Make/Model - CHAMPION 7ECA	Eng Make/Model	- LYCOMING 0-235-C1		Installed/A		
Landing Gear - TAILWHEEL-ALL FIXE				tall Warning	g System	- NO
Max Gross Wt - 1650		- RECIPROCATING-CARBURE	ΓOR			
No. of Seats - 2	Rated Power	- 115 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRI		oint	ON AIR	PORT		
Method - N/A	DUNNELLON,FL					
Completeness - N/A	Destination		Airport Da			
Basic Weather - VMC	SAME AS ACC/IN	IC	GREY S			
Wind Dir/Speed- 300/005 KTS					27	
110121111	ATC/Airspace			Lth/Wid -		
Lowest Sky/Clouds - 1500 FT	SCATTERED Type of Flight F	lan - NONE	,	Surface -	,	RF
Lowest Ceiling - 3000 FT			Runway	Status -	DRY	
Obstructions to Vision- HAZE	Type Apch/Lndg	- TRAFFIC PATTERN				
Obstructions to Vision- HAZE Precipitation - NONE		- TRAFFIC PATTERN FULL STOP				
Obstructions to Vision- HAZE						
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT		FULL STOP				
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT		FULL STOP				
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Age - 46	FULL STOP Medical Certificate Fligh	t Time (Ho	ours)		
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Age - 46 Biennial Flight Review Current - YE	FULL STOP Medical Certificate Fligh	t Time (Ho	ours)	Hrs -	0
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Age - 46 Biennial Flight Review Current - YE Months Since - 15	FULL STOP Medical Certificate Fligh	t Time (Ho	ours)	Hrs - Days-	1
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Age - 46 Biennial Flight Review Current - YE	FULL STOP Medical Certificate Flight S Total - Make/Model- 1-38 Instrument- UNF	t Time (Ho 134 16 K/NR	ours) Last 24 Last 30 Last 90	Hrs - Days- Days-	1 17
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE	Age - 46 Biennial Flight Review Current - YE Months Since - 15	FULL STOP Medical Certificate Fligh	t Time (Ho 134 16 K/NR	ours) Last 24 Last 30 Last 90	Hrs - Days- Days- aft -	1
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE	Age - 46 Biennial Flight Review Current - YE Months Since - 15	FULL STOP Medical Certificate Flight S Total - Make/Model- 1-38 Instrument- UNF	t Time (Ho 134 16 K/NR	ours) Last 24 Last 30 Last 90	Hrs - Days- Days- aft -	1 17
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 46 Biennial Flight Review Current - YE Months Since - 15	FULL STOP Medical Certificate Flight S Total - Make/Model- 1-38 Instrument- UNF	t Time (Ho 134 16 K/NR	ours) Last 24 Last 30 Last 90	Hrs - Days- Days- aft -	1 17
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 46 Biennial Flight Review Current - YE Months Since - 15 Aircraft Type - PA	FULL STOP Medical Certificate Flight S Total - Make/Model38 Instrument- UNF Multi-Eng -	t Time (Ho 134 16 (/NR O	ours) Last 24 Last 30 Last 90 Rotorcr	aft - 	1 17 0
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE	Age - 46 Biennial Flight Review Current - YE Months Since - 15 Aircraft Type - PA	FULL STOP Medical Certificate Flight S Total - Make/Model38 Instrument- UNF Multi-Eng -	t Time (Ho 134 16 O	ours) Last 24 Last 30 Last 90 Rotorcr	aft - EXTENDED	1 17 0
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONENarrative E PLT ENTERED THE TRAFFIC PATTERN TO L ST OF RWY 36 & INTERSECTED IT AT THE P	Age - 46 Biennial Flight Review Current - YE Months Since - 15 Aircraft Type - PA AND ON RWY 27 (GRASS RWY), W AVED RWY'S MIDFIELD AREA. WH	FULL STOP Medical Certificate Flight S Total - Make/Model38 Instrument- UNH Multi-Eng - WHICH INTERSECTED RWY 36	t Time (Ho 134 16 K/NR O O (PAVED RI	ours) Last 24 Last 30 Last 90 Rotorcr WY). RWY 27 ND, THE ACF	aft - EXTENDED T'S LEFT	1 17 0
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONE Narrative E PLT ENTERED THE TRAFFIC PATTERN TO L ST OF RWY 36 & INTERSECTED IT AT THE P IN GEAR HIT A VEHICLE, WHICH WAS TRAVE	Age - 46 Biennial Flight Review Current - YE Months Since - 15 Aircraft Type - PA AND ON RWY 27 (GRASS RWY), W AVED RWY'S MIDFIELD AREA. WH LING NORTH ON THE LEFT EDGE	Medical Certificate Flight S Total - Make/Model- 1-38 Instrument- UNH Multi-Eng - WHICH INTERSECTED RWY 36 ILLE FLARING OVER THE INTERSECTED RWY 36 & WAS ALSO CRE	t Time (Ho 134 16 K/NR O O (PAVED RI IXN TO LAN DSSING AT	Last 24 Last 30 Last 90 Rotorcr: WY). RWY 27 ND, THE ACF THE INTXN.	aft - EXTENDED T'S LEFT DRG	1 17 0
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHTPersonnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Instrument Rating(s) - NONENarrative E PLT ENTERED THE TRAFFIC PATTERN TO L ST OF RWY 36 & INTERSECTED IT AT THE P	Age - 46 Biennial Flight Review Current - YE Months Since - 15 Aircraft Type - PA AND ON RWY 27 (GRASS RWY), W AVED RWY'S MIDFIELD AREA. WH LING NORTH ON THE LEFT EDGE	Medical Certificate Flight S Total - Make/Model- Multi-Eng - WHICH INTERSECTED RWY 36 ILLE FLARING OVER THE INTOF RWY 36 & WAS ALSO CRE AFTER TOUCHDOWN, THE ACCEPTED RWY 36	t Time (Ho 134 16 K/NR O O (PAVED RI IXN TO LAN DSSING AT	Last 24 Last 30 Last 90 Rotorcr: WY). RWY 27 ND, THE ACF THE INTXN.	aft - EXTENDED T'S LEFT DRG	1 17 0

File No. - 422 3/07/89 OCALA, FL A/C Reg. No. N8350V Time (Lcl) - 1345 EST Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. VISUAL LOOKOUT - INADEQUATE - DRIVER OF VEHICLE 2. OBJECT - VEHICLE CLEARANCE - NOT MAINTAINED - DRIVER OF VEHICLE 4. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND Occurrence #2 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation LANDING Finding(s) 5. LANDING GEAR, MAIN GEAR - OVERLOAD Occurrence #3 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING Finding(s) 6. GROUND LOOP/SWERVE - UNCONTROLLED -----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE VEHICLE DRIVER TO SEE AND YIELD TO THE ACFT THAT WAS LANDING ON RWY 27. CONTRIBUTING FACTORS WERE:

VEHICLE ON THE RUNWAY AND INADEQUATE VISUAL LOOKOUT BY THE PILOT.

File No 466 3/09/89 DAYTO	NA BEACH, FL	A/C Reg. No. N	N6852Q	_ T	ime (Lcl) -	1337 ES	Г
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL	L AVIATION)	Aircraft Damage DESTROYED Fire	Crew	Fatal 1	Injur Serious O	ries Minor O	None 0
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH		NONE	Pass	1	0	0	0
Aircraft Information Make/Model - BEECH S35 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3300 No. of Seats - 5	Number Eng Engine Typ	Model - CONTINENTAL gines - 1 be - RECIP-FUEL er - 285 HP			Installed/A tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 310/012 KTS Visibility - 2.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 300 FT OVER Obstructions to Vision- FOG Precipitation - DRIZZLE Condition of Light - DAYLIGHT	CAST Type of Cle	A BEACH,FL ight Plan - IFR		OFF AI Airport D DAYTON Runway Runway Runway	A BEACH REG	SIONAL O7 7500/ ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 41 Biennial Flight F Current Months Since Aircraft Type	Review - YES Tota - 4 Make e - S35 Inst	Certificate Flight al - e/Model- trument- UNF	t Time (H 510 10 <td>ours)</td> <td>Hrs - Days- U Days- U</td> <td>5 NK/NR</td>	ours)	Hrs - Days- U Days- U	5 NK/NR
Instrument Rating(s) - AIRPLANE							
Narrative DRG ARR, APCH CTL PROVIDED VECTORS & CLRD THE 1 MI "SOUTH OF FINAL" & ASKED THE PLT IF HE W FOR A SURVEILLANCE APCH & TOLD THE PLT THE MI THE CTLR NOTED THE MODE C READ-OUT (WHICH HAD TURN LEFT TO 360 DEG & CLIMB TO 1600' & THE P O'CLOCK PSN, BUT THERE WAS NO RESPONSE & CONT HAD HIT TREES & CRASHED ON A HDG OF 160 DEG (WAS FND TO BE SET AT 109.75 MHZ. THE ILS FREQ CFI BELIEVED HE WAS NOT CURRENT FOR INST FLT.	PLT FOR AN ILS RUAS RCVG THE LOCAL N DSCNT ALT (MDA) BEEN INTERMITTEN LT ACKNOWLEDGED. ACT WITH THE ACFT 1.6 MI WSW OF THE WAS 109.7 MHZ.	WY 7L APCH. AS THE IZER. THE PLT SAID WAS 420', BUT DID TO WAS INDCG 400'. THE CTLR THEN ADZD WAS LOST. LATER, TOUTER MARKER, TERFIHE PLT'S ESTD FLT	ACFT CONTD. NO. THE CTI NOT CLR HIN THE CTLR IN THE PLT THI THE ACFT WAS RAIN ELEV AF	, THE CTL LR THEN B M TO DSCN MMEDIATEL ERE WAS A S FND IN PRX 35′). E BEECH S	R NOTED IT GN GIVING I D. SOON THE Y TOLD THE N ANTENNA A THAT VCNTY THE UNDMGE 35 WAS 10 F	WAS APRX NSTRNS REAFTER, PLT TO THIS ON WHERE IT #1 NAV HRS; HIS	

File No. - 466 3/09/89 DAYTONA BEACH, FL A/C Reg. No. N6852Q Time (Lc1) - 1337 EST IN FLIGHT COLLISION WITH OBJECT Occurrence #1 Phase of Operation APPROACH - MISSED APPROACH (IFR) Finding(s) 1. WEATHER CONDITION - LOW CEILING 2. WEATHER CONDITION - FOG 3. NAVIGATION RECEIVER - IMPROPER USE OF - PILOT IN COMMAND 4. IFR PROCEDURE - IMPROPER - PILOT IN COMMAND 5. MISSED APPROACH - DELAYED - PILOT IN COMMAND 6. OBJECT - TREE(S) 7. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND LACK OF RECENT INSTRUMENT TIME - PILOT IN COMMAND 8. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - 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 IMPROPER IFR PROCEDURE AND HIS FAILURE TO MAINTAIN PROPER ALTITUDE. CONTRIBUTING FACTORS WERE: HIS IMPROPER USE OF THE NAVIGATION RECEIVER, HIS DELAY IN MAKING A MISSED APCH, HIS LACK OF EXPERIENCE IN THE TYPE OF AIRCRAFT, HIS LACK OF RECENT INSTRUMENT EXPERIENCE, WEATHER CONDITIONS AND TREES.

File No 419 3/10/89 TITUS	VILLE,FL 	A/C Reg	. No. N775CH		Time (Lc1)	- 1350 ES	5T
-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft DESTROYE		Fata	Inju 1 Serious	ıries Minor	None
Type of Operation -AEROBATICS Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING		Fire ON GROUN		Crew 1 Pass O	0	0	0
Aircraft Information							
Make/Model - NORTH AMERICAN T-28C Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 8600 No. of Seats - 2	Eng Make/Mod Number Engir Engine Type Rated Power	es - 1 - RECI	PROCATING-CA		LT Installed/ Stall Warni		
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departur SAME AS ACC			•	rt Proximity AIRPORT		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 340/018 KTS	Destination LOCAL	, 1110		TIT	t Data USVILLE way Ident	- UNK/NR	
Visibility - 6.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE	ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnd	ance -		Run Run	way Lth/Wid way Surface way Status	- UNK/NR - UNK/NR	
Precipitation - NONE Condition of Light - DAYLIGHT	7 y p c 7 p c 1 y c 1 n c	9					
-Personnel Information							
Pilot-In-Command Certificate(s)/Rating(s)	Age - 48 Biennial Flight Rev			ficate - VA Flight Time	LID MEDICAL-N	O WAIVERS	S/LIMIT
COMMERCIAL, CFI	Current -	YES	Total	- 10500	Last 2	24 Hrs - L	
SE LAND, ME LAND HELICOPTER	Months Since - Aircraft Type -	2 T-28C		1- UNK/NR t- UNK/NR - UNK/NR	Last 3 Last 9 Rotord	80 Days- L 80 Days- L craft -	JNK/NR JNK/NR 3900
Instrument Rating(s) - AIRPLANE,HE	LICOPTER						
Narrative E AEROBATIC QUALIFIED PILOT WAS PRACTICING RFORMED IN A REVERSE MANNER. WHEN THE PILOT UFFICIENTLY) BEFORE MAKING A 180 DEG ROLL & DNT, AFTER COMPLETING THE FRONT SIDE OF THE UFFICIENTLY). SUBSEQUENTLY, DURING RECOVERY TO THE GROUND & CRASHED IN A WINGS LEVEL AT	PREVIOUSLY PERFORME GOING DOWN THE BACK MANEUVER, THE ACFT FROM THE DESCENT ON	D THE MAN SIDE OF WAS IMMED	EUVER, HE AL THE MANEUVER IATELY ROLLE	LOWED THE A . HOWEVER, D 180 DEG W	IRCRAFT TO CL JUST BEFORE T ITHOUT CLIMBI	IMB HE NG	

File No. - 419 3/10/89 TITUSVILLE,FL A/C Reg. No. N775CH Time (Lc1) - 1350 EST

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

MANEUVERING

Finding(s)

- 1. AEROBATICS IMPROPER PILOT IN COMMAND
- 2. PROPER ALTITUDE NOT OBTAINED PILOT IN COMMAND
- 3. STALL/MUSH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER EXECUTION OF AN AEROBATIC MANEUVER RESULTING IN INADEQUATE AIRSPEED AND LOSS OF CONTROL.

Basic Information Type Operating Certificate-NONE (GENERA)	L AVIATION) Aircraf	t Damage		Injur	ies	
	SUBSTA		Fatal		Minor	None
Type of Operation -PERSONAL	Fire		ew 0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pa	ss O	0	0	0
Aircraft Information			00 5 5 5			
Make/Model - CESSNA 402A Landing Gear - TRICYCLE-RETRACTABLE	Eng Make/Model - CC Number Engines - 2			Installed/A Stall Warnin		
Max Gross Wt - 6300	Engine Type - RE			stali warnin	g System	- YES
No. of Seats - 2	Rated Power -		D			
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING		:	ON AII	RPORT		
Method - N/A Completeness - N/A	SAME AS ACC/INC Destination		Airport (12+2		
Basic Weather - VMC	LOCAL		TAMIA			
Wind Dir/Speed- 180/009 KTS	EGGAE				27R	
Visibility - 15.0 SM	ATC/Airspace			/ Lth/Wid -		150
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runwa	y Surface -	ASPHALT	
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runwa	y Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg		N			
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 60	Medical Certifi	cate - EYDII	DEN		
Certificate(s)/Rating(s)	Biennial Flight Review		ight Time (
PRIVATE	Current - UNK/NF		5000	Last 24	Hrs - UN	IK/NR
SE LAND	Months Since - UNK/NF	Make/Model-	UNK/NR	Last 30	Days- UN	IK/NR
	Aircraft Type - UNK/NF			Last 90	Days- UN	IK/NR
		Multi-Eng -	UNK/NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - NONE						
						-
THE LANDING ROLL, ABOUT 4000 FT DOWN THE						
RWY. AN EXAM REVEALED THE BELLCRANK FOR THE						
CH ALLOWED THE GEAR TO COLLAPSE. THE REASON	N FUR UVERLUAD WAS NOT DETE	KMINED. THE PLT'	S LAST MED	JERT WAS DAT	ΕU	

File No. - 413 3/13/89 MIAMI,FL A/C Reg. No. N2882F Time (Lc1) - 1240 EST

Occurrence #1 MAIN GEAR COLLAPSED Phase of Operation LANDING

Finding(s)

1. LANDING GEAR,NORMAL RETRACTION/EXTENSION ASSEMBLY - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE OVERLOAD FAILURE OF THE BELLCRANK FOR THE LEFT MAIN GEAR RETRACTION LINKAGE ASSEMBLY FOR AN UNKNOWN REASON.

File No 404 3/13/89 HOLL	EY,FL A/C	Reg. No. N5572W	T	ime (Lcl) -	2324 CS	Г
Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION) Aircra DESTR	ft Damage DYFD	Fatal	Injur Serious		None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	Fire ON GR	Crew	1	0	0	0
Aircraft Information						
Make/Model - PIPER PA-28-160 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2200	Eng Make/Model - L Number Engines - Engine Type - R		S	Installed/A Stall Warnin		
No. of Seats - 4	Rated Power -	160 HP				
Environment/Operations Information						-
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS Method - ACFT RADIO	Last Departure Poin	t	OFF AI	RPORT/STRIP		
Method - ACFT RADIO Completeness - UNK/NR	TALLAHASSEE,FL Destination		Airport D)ata		
Basic Weather - UNK/NR	PENSACOLA,FL		х., ре. с г			
Wind Dir/Speed- 230/001 KTS	,		Runway	/ Ident -	N/A	
Visibility - UNK/NR	ATC/Airspace			/ Lth/Wid -		
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan			Surface -		
Lowest Ceiling - UNK/NR	Type of Clearance		Runway	/ Status -	N/A	
Obstructions to Vision- FOG	Type Apch/Lndg	- NONE				
Precipitation - NONE Condition of Light - NIGHT(DARK)						
Pilot-In-Command	Age - 45	Medical Certificat	te - VALID	MEDICAL-WA	IVERS/LI	TIM
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Fligh	nt Time (F	lours)		
PRIVATE	Current - NO	Total -		Last 24		5
SE LAND	Months Since - 31	Make/Model-	300	Last 30	Days-	20
	Aircraft Type - PA-28		NK/NR	Last 90 Rotorcr	Days-	75
		Multi-Eng -	/5	Rotorcr	aft - U	NK/NR
Instrument Rating(s) - NONE						
Narrative	TR FLT FLUO FM FOLTN :55 :50	U OTI WITH E OFFICE	10 AT 4500		ATMED BY	
G A NGT X-COUNTRY FLT, THE PLT WAS RCVG VI R THE AREA. HE WAS ADZD THAT ACCORDING TO						
N CEILING. THE PLT ELECTED TO DSCND THRU						
1500', THEN WAS ADZD TO CTC PENSACOLA APO						
ERE WAS NO FURTHER RADIO CTC WITH THE ACF						
A REMOTE/UNLIGHTED AREA ON A BOMBING RANG						
NG LOW ATTITUDE. NO PREIMPACT MECHANICAL F	PRBLM OF THE ACFT WAS FND, B	UT IT WAS BADLY DMG[D BY IMPAC	CT & FIRE. A	BT 22 MI	
ST AT PENSACOLA, THE WX WAS 800' BKN, 1700						
T, 1500' THIN SCT, VIS 3 MI WITH FOG. NO F						

File No. - 404 3/13/89 HOLLEY,FL A/C Reg. No. N5572W Time (Lc1) - 2324 CST

Occurrence #1
Phase of Operation

IN FLIGHT ENCOUNTER WITH WEATHER

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. WEATHER CONDITION CLOUDS
- 3. WEATHER CONDITION LOW CEILING
- 4. WEATHER CONDITION FOG
- 5. FLIGHT INTO KNOWN ADVERSE WEATHER CONTINUED PILOT IN COMMAND
- 6. LIGHT CONDITION DARK NIGHT
- VISUAL/AURAL PERCEPTION PILOT IN COMMAND

Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation CRUISE

Finding(s)

- 8. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND
- 9. SPATIAL DISORIENTATION 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: CONTINUED FLIGHT BY THE PLT INTO ADVERSE WX, FOLLOWED BY SPATIAL DISORIENTATION AND LOSS OF AIRCRAFT CONTROL. LACK OF A PREFLIGHT WEATHER BRIEFING, WEATHER CONDITIONS, AND LACK OF VISUAL CUES AT NIGHT WERE CONSIDERED CONTRIBUTING FACTORS.

File No 410 3/19/89 MOORE	HAVEN, FL A/C R	eg. No. N4395N	Time	(Lc1) - 1400 ES	Т
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -SKYDIVING Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	_ AVIATION) Aircraf SUBSTA Fire NONE	t Damage NTIAL Crew Pass	Fatal Se O O	Injuries rious Minor O O O O	None 1 O
Aircraft Information Make/Model - CESSNA 195 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 3350 No. of Seats - UNK/NR	Eng Make/Model - P& Number Engines - 1 Engine Type - RE Rated Power -	CIPROCATING-CARBURE	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- 340/005 KTS Visibility - 15.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 3800 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		nt - 04 /Wid - 3000/ face - GRASS/T	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE,COMMERCIAL SE LAND GLIDER	Age - 40 Biennial Flight Review Current - UNK/NR Months Since - UNK/NR Aircraft Type - UNK/NR	Total - Make/Model- UN	nt Time (Hours 597 JK/NR JK/NR		NK/NR NK/NR NK/NR
Instrument Rating(s) - AIRPLANE					
Narrative S THE ACFT WAS CLIMBING THRU 9,000 FT FOR 13, HE SKYDIVERS BAILED OUT OVER THE DROP ZONE, T MERGENCY LANDING WAS MADE BEFORE REACHING THE HITTING THE FENCE. HOWEVER, THE ACFT ENCOUNTER	THEN THE PLT ATTEMPTED TO R E RWY. THE PLT SAW A FENCE	ETURN TO THE ARPT F AHEAD & APPLIED HEA	ROM ABOUT 700 VY BRAKING TO	O FT. AN AVOID	

File No. - 410 3/19/89 MOORE HAVEN, FL Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CLIMB 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 Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 4. OBJECT - FENCE 5. BRAKES(NORMAL) - EXCESSIVE -6. TERRAIN CONDITION - DITCH ----Probable Cause----

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 INADEQUATE FUEL SUPPLY. A CONTRIBUTING FACTOR WAS A DITCH WHICH THE AIRCRAFT HIT AS THE PILOT WAS APPLYING BRAKES TO AVOID A FENCE.

File No 465 3/21/89 MELBC	DURNE, FL	A/C Reg. N	No. N1480F	Т	ime (Lcl) -	1731 EST	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	AL AVIATION)	Aircraft Dar SUBSTANTIAL Fire NONE		Fatal O O	Injur Serious 1 O	ies Minor O 1	None O O
Aircraft Information Make/Model - CESSNA 172H Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Eng	e - RECIPRO	DCATING-CARBURE	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- 130/O18 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 3000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	MELBOURNE Destination MERRITT I ATC/Airspace ITERED Type of Fli	,FL SLAND,FL ght Plan - NOM Parance - NOM	NE	ON AIR Airport D MELBOU Runway Runway Runway	ata RNE REGIONA	O4 3002/ ASPHALT	100
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 23 Biennial Flight R Current Months Since Aircraft Type	eview - UNK/NR - UNK/NR	Total - Make/Model-	nt Time (H 166 20		Hrs - Davs-	2 6
Instrument Rating(s) - NONE							
Narrative THE PRIVATE PILOT ATTEMPTED A TAKEOFF ON A RU AFTER IT BECAME AIRBORNE. ANOTHER RUNWAY, LON WITNESSES SAID THAT AFTER TAKEOFF, THE AIRPLA CHANGE WAS OBSERVED BEFORE THE AIRPLANE DOVE HIGH RPM. NO EVIDENCE OF FLIGHT CONTROL MALFU	NGER & MORE CLOSELY ANE CLIMBED 75 TO 1 TO THE GROUND. WIT	ALIGNED WITH	THE WIND, WAS EN ROLLED LEFT.	AVAILABLE ABOUT 90	BUT NOT RE DEGREES OF	QUESTED. HEADING	

File No. - 465 3/21/89 MELBOURNE, FL A/C Reg. No. N1480F Time (Lc1) - 1731 EST

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

Finding(s)

1. WRONG RUNWAY - SELECTED - PILOT IN COMMAND
2. WEATHER CONDITION - CROSSWIND
3. COMPENSATION FOR WIND CONDITIONS - 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: THE PILOT'S SELECTION OF AN INAPPROPRIATE RUNWAY FOR TAKEOFF AND HIS INADEQUATE COMPENSATION FOR CROSSWIND CONDITIONS.

File No 412 3/21/	89 MARATHON, F	L A/C I	Reg. No. N39752		Time (Lc1)	- 1430 EST	
-Basic Information Type Operating Certificate-N	JONE (GENERAL AVI	ATION) Aircra	ft Damage		Inju	ries	
		SUBSTA	ANTIAL	Fatal	Serious	Minor	None
Type of Operation -P	ERSONAL	Fire		rew O	0	0	1
Flight Conducted Under -1		NONE	Р	ass 0	0	0	1
Accident Occurred During -L.	ANDING						
-Aircraft Information							
Make/Model - WACO UPF-7		Eng Make/Model - C		-K EL1	Installed/		
Landing Gear - TAILWHEEL-AL	L FIXED	Number Engines -			Stall Warni	ng System	- NO
Max Gross Wt - 2650		Engine Type - R	ECIPROCATING-CAR	BURETOR			
No. of Seats - 2		Rated Power -	225 HP				
-Environment/Operations Informa	tion						
Weather Data		Itinerary			Proximity		
Wx Briefing - NO RECORD	OF BRIEFING	Last Departure Poin	t	ON A	RSTRIP		
Method - N/A		SAME AS ACC/INC					
Completeness - N/A		Destination		Airport			
Basic Weather - VMC		LOCAL		MARAT			
Wind Dir/Speed- 140/013 KT		/			.,	- 07	
Visibility - 10.0 S		ATC/Airspace			y Lth/Wid		100
Lowest Sky/Clouds - 1					y Surface		
Lowest Ceiling - NO		Type of Clearance			y Status	- DRY	
Obstructions to Vision- NO		Type Apch/Lndg		KN			
Precipitation - NO			FULL STOP				
Condition of Light - DA	.YLIGH! 						
-Personnel Information							
Pilot-In-Command	Age	- 34	Medical Certif	icate - VAL.	D MEDICAL-N	O WAIVERS/	LIMII
Certificate(s)/Rating(s)	Bien	nial Flight Review	F			4 11 1151	
COMMERCIAL		Current - UNK/N	R lotal	- 2500			
SE LAND, ME LAND		Months Since - UNK/NI	R Make/Model	- UNK/NR	Last 3	O Days- UN	K/NR
		Aircraft Type - UNK/N	Y Instrument	- UNK/NR - UNK/NR	Last 9	Days- UN	
			Multi-Eng	- UNK/NR	Rotore	raft - UN	K/NR

File No. - 412 3/21/89 MARATHON, FL A/C Reg. No. N39752 Time (Lcl) - 1430 EST

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

Finding(s)

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

Occurrence #2 MAIN GEAR COLLAPSED Phase of Operation LANDING - ROLL

Finding(s)

4. LANDING GEAR, MAIN GEAR - OVERLOAD

----Probable Cause----

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

File No 459 3	/22/89 JACKS0	ONVILLE, FL	A/C Reg. No. N77BR			Time (Lc1) - 2244 EST				
Basic Information Type Operating Certifica Name of Carrier Type of Operation Flight Conducted Under Accident Occurred During	-TOP FLIGHT AI -NON SCHED,DOM -14 CFR 135	R TAXI IR SERVICE MESTIC,CARGO	Aircraft E DESTROYEE Fire NONE					None 0 0		
Aircraft Information Make/Model - PIPER AE Landing Gear - TRICYCLE Max Gross Wt - 6000 No. of Seats - 2	 ROSTAR 600	Number E	Engines - 2 Type - RECIF	IING IO-540-K1F! P-FUEL INJECTED B5 HP	S	Installed/ Itall Warni				
Environment/Operations Inf Weather Data Wx Briefing - FSS Method - TELEPH Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 040/01 Visibility - 1.5 Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision Precipitation Condition of Light	ONE 3 KTS OO SM N/A 400 FT OVERO - FOG - DRIZZLE	ATLANTA Destination SAME AS ATC/Airspace Type of F CAST Type of O	on 5 ACC/INC ce Flight Plan - 1	FR	ON AIR Airport D JACKSO Runway Runway Runway	oata ONVILLE INT	- 07 - 8000/ - ASPHALT			
Personnel Information Pilot-In-Command Certificate(s)/Rating(s COMMERCIAL SE LAND,ME LAND		Months Sind		Total - Make/Model- Instrument-	ght Time (F 2575 1250 500	fours) Last 2	4 Hrs - O Days-	/LIMIT 4 93 260		
Instrument Rating(s)	- AIRPLANE			Multi-Eng -	1260					
Narrative PRG ARRIVAL, THE PLT WAS CLRD USE CAUTION FOR WAKE TURBULENCE WIT TREES & CRASHED ABOUT 1.8 WAS FOUND THAT WOULD HAVE RESU WESTED NORMAL AFTER THE ACONT. WIS MULTI-ENGINE PRIVILEGES WE MIN & 57 SEC BEHIND THE DC-9 WALUES WERE EVIDENT DRG THE	E. AS THE ACFT WI SHORT OF THE LTED IN AN ACDNITHE PLT HELD ARE AUTHORIZED AS. RADAR DATA INC	VAS ON FINAL APO RWY. NO PREIMPA T. ALSO, THERE W COMMERCIAL PLT S A PRIVATE PLT,	CH, IT DESCENDE ACT PART FAILUF VERE NO REPORTE CERTIFICATE WH , ONLY. AN NTSE	ED BELOW THE IL: RE OR MALFUNCTION ED PROBLEMS WITH HICH WAS GOOD FOR BY PERFORMANCE S	S GLIDE SLO ON OF THE A H THE ILS S OR SINGLE E TUDY SHOWED	OPE & SUBSE ACFT OR ENG SYSTEM & IT ENGINE LAND O THE ACFT	QUENTLY S ACFT; WAS			

File No. - 459 3/22/89 JACKSONVILLE,FL A/C Reg. No. N77BR Time (Lc1) - 2244 EST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Finding(s)

- 1. LIGHT CONDITION DARK NIGHT
- 2. IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 3. PROPER GLIDEPATH NOT MAINTAINED PILOT IN COMMAND
- 4. DECISION HEIGHT NOT IDENTIFIED PILOT IN COMMAND
- 5. OBJECT TREE(S)

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation DESCENT - UNCONTROLLED

Phase of Operation Descent Oncontrolled

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THE IFR PROCEDURE BY THE PILOT, HIS FAILURE TO MAINTAIN A PROPER GLIDE PATH, AND HIS FAILURE TO IDENTIFY THE DECISION HEIGHT.

File No	517	3/29/89	PONTE VED	RA BCH,FL	A/C Re	g. No. N81VA		Т	ime (Lc1)	- 1600 (EST
Basic Informa Type Operat		cate-NONE	(GENERAL AV	IATION)	Aircraft SUBSTAN			Fatal		uries : Mino:	n None
Type of Ope Flight Cond Accident Oc	ucted Under	-14 CF	R 91		Fire NONE		Crew Pass	0	0	0	
Aircraft Info Make/Model Landing Gea Max Gross W No. of Seat	- LEE, D r - TRICYC t - 2250	AVID VELOC: LE-FIXED	ITY	Number E	ngines - 2 ype - REC	OMING IO-360 IP-FUEL INJE 200 HP	CTED		tall Warr	ing Syste	
	- NO R - N/A ess - N/A			Itinerary Last Depa ST. AUG Destinatio LOCAL	USTINE,FL			Airport	Proximity RPORT/STR	,	
Wind Dir/ Visibilit Lowest Sk Lowest Ce Obstructi Precipita	Speed- 140/ y - 10 y/Clouds - iling - ons to Visi tion	0.0 SM 3500 I 25000 I on- NONE	FT BROKEN	ATC/Airspac D Type of F Type of C	light Plan - learance -			Runway Runway	Ident Lth/Wid Surface Status	- N/A - N/A	
Personnel Inf Pilot-In-Com			1~0	- 35	- 	Medical Cert	ifica:		MEDICAL	NO WATVE	OS / L TMTT
	e(s)/Rating		Bie	nnial Flight	Review		Fligh	nt Time (H		NO WAIVE	(3) [11111
ATP				Current Months Sinc	- YES	Total		12000	Last	24 Hrs -	5
GLIDER	,ME LAND,SE	: SEA		Aircraft Ty	e - 1 pe - MD-9	Make/Mod Instrume Multi-En	nt-	2150	Last Last	90 Days-	50 150
Instrum	ent Rating(s) - AIRPI	LANE								
Narrative E EXPERIMENTAL ARWARD LIMITS. L CONVENTIONAL CKPIT & LEANING NSIDERED BAILIN WARD THE OCEAN. FT WAS RECOVERE THE CANARD ON TCH AUTHORITY E	AMATEUR-BUI THE ACFT WA & UNCONVENT AS FAR FWD G OUT, BUT AFTER THE D & AN EXAM THE PREV FL	S PLACED II IONAL MEAN: AS POSSIBI CHANGED HI: HARD VERTIC REVEALED T, WERE ST	NTO AN "AGG S OF REGAIN LE, FAILED S MIND DUE CAL IMPACT, THAT THE CA ILL IN PLAC	RAVATED STAL ING CONTROL TO RECOVER C TO THE ZERO THE PLT REL NARD GAP SEA E DUE TO AN	L" DURING WH OF THE ACFT, ONTROL OF TH BANK, ZERO F EASED HIS HA LS WHICH HAD	ICH THE ACFT INCLUDING T E ACFT. AT O WD SPEED, ZE RNESS & STEP BEEN INSTAL	ENTER HE PL NE PO RO YAN PED IN LED TO	RED A "DEE CCLIMBING INT, THE P W & SLOW D NTO THE WA DENHANCE	P STALL". OUT OF T LT ESCENT TER. THE PITCH AUT	HE HORITY	

File No. - 517 3/29/89 PONTE VEDRA BCH,FL A/C Reg. No. N81VA Time (Lc1) - 1600 EST

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

Finding(s)

1. FLIGHT CONTROL SURFACES/ATTACHMENTS - IMPROPER
2. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND
3. LACK OF FAMILIARITY WITH AIRCRAFT - 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: FAILURE THROUGH AN OVERSIGHT TO REMOVE THE CANARD GAP SEALS PRIOR TO AGGRAVATED STALL TESTING WHICH RESULTED IN THE AIRCRAFT ENTERING AN UNCONTROLLABLE FLIGHT REGIME.

----Probable Cause----

File No 516 4/08/89 REDDIM	NGTON BCH.,FL A/C R	eg. No. N599WB	T	ime (Lcl) -	1620 EDT	•
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA	t Damage NTIAL Crew Pass	Fatal O O	Injur Serious O O	ries Minor O O	None 2 0
-Aircraft Information Make/Model - BEECH F-33A Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 3412 No. of Seats - 4	Eng Make/Model - CO Number Engines - 1 Engine Type - RE Rated Power -		S	Installed/A 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- 210/014 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 2000 FT SCATT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point TAMPA,FL Destination LOCAL ATC/Airspace TERED Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	Airport OFF AI Airport D Runway Runway Runway	Proximity RPORT/STRIF ata Ident - Lth/Wid - Surface -	· N/A · N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 40 Biennial Flight Review Current - YES Months Since - 11 Aircraft Type - UNK/NR	Total - Make/Model-	t Time (H 279 100		Hrs - Days-	'LIMIT 3 10 36
Instrument Rating(s) - NONE						
Instrument Rating(s) - NONENarrative HE INSTRUCTOR PILOT AND THE RATED PILOT/OWNER NGINE FAILED. THEY BOTH ATTEMPTED MULTIPLE EN HEY WERE RESCUED. AFTER THE AIRPLANE WAS RECO	NGINE RE-STARTS TO NO AVAIL	. THEY DITCHED THE	AIRPLANE,	IT SANK AN	uD	

File No 5	16 4/08/89	REDDINGTON BCH.,FL	A/C Reg. No. N599WB	Time (Lc1) - 1620 EDT
Occurrence #1 Phase of Operation		POWER(TOTAL) - NON-MECHAN: SE	ICAL	
Finding(s) 1. POWERPLANT - UN				
Occurrence #2 Phase of Operation		:NCY		
Occurrence #3 Phase of Operation		SION WITH TERRAIN/WATER		
Finding(s) 2. TERRAIN CONDITI	ON - WATER,ROUGH			
Probable Cause	= -			

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

Accident Occurred During -TAXI -Aircraft Information Make/Model - CESSNA 172M	O O O Installed/Activerall Warning Sy O O O O O O O O O O O O O O O O O O O	O 1 O 2 vated - YES-UNK/ ystem - YES
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAXI Aircraft Information Make/Model - CESSNA 172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4 Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT NONE Eng Make/Model - LYCOMING O-320-E2D ELT Number Engines - 1 Num	O Installed/Active all Warning Syroximity PORT Ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	vated - YES-UNK/ ystem - YES K/NR K/NR K/NR
Accident Occurred During -TAXI Aircraft Information Make/Model - CESSNA 172M	Installed/Active all Warning Sy Proximity PORT Ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	vated - YES-UNK/ ystem - YES
-Aircraft Information Make/Model - CESSNA 172M	Proximity PORT Ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	ystem - YES
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4 Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed - 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision - NONE Condition of Light - DAYLIGHT Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 160 HP Itinerary Last Departure Point FREEPORT Last Departure Point FREEPORT SAME AS ACC/INC PALM BI Airport Day Airport Day Airport Day Airport Day Airport Day FREEPORT SAME AS ACC/INC PALM BI Type of Flight Plan - IFR Runway Type of Clearance - NONE Type Apch/Lndg - NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT	Proximity PORT Ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	ystem - YES
Max Gross Wt - 2300 No. of Seats - 4 Rated Power - 160 HP Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Engine Type - RECIPROCATING-CARBURETOR Rated Power - 160 HP Airport M Airport M ON AIR FREEPORT Destination SAME AS ACC/INC PALM BI ATC/Airspace Runway Type of Flight Plan - IFR Runway Type of Clearance - NONE Type Apch/Lndg - NONE Condition of Light - DAYLIGHT	Proximity PORT Ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
No. of Seats - 4 Rated Power - 160 HP Environment/Operations Information Weather Data Wx Briefing - FSS Last Departure Point Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Destination Airport Date of SAME AS ACC/INC PALM BI ATC/Airspace Runway Lowest Ceiling - NONE Destination SAME AS ACC/INC PALM BI ATC/Airspace Runway Type of Flight Plan - IFR Runway Type of Clearance - NONE Precipitation - NONE Condition of Light - DAYLIGHT	Proximity PORT ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Environment/Operations Information Weather Data	Proximity PORT ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT Itinerary Last Departure Point FREEPORT Destination SAME AS ACC/INC PALM BI Airport Day	PORT ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Method - TELEPHONE FREEPORT Completeness - WEATHER NOT PERTINENT Destination Airport Date of the part	ata EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Completeness - WEATHER NOT PERTINENT Destination Airport Days Destination SAME AS ACC/INC PALM BI Wind Dir/Speed- 140/013 KTS Runway Visibility - 10.0 SM ATC/Airspace Runway Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Lowest Ceiling - NONE Type of Clearance - NONE Runway Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Basic Weather - VMC SAME AS ACC/INC PALM BI Wind Dir/Speed- 140/013 KTS Runway Visibility - 10.0 SM ATC/Airspace Runway Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Lowest Ceiling - NONE Type of Clearance - NONE Runway Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	EACH INT'L Ident - UNK Lth/Wid - UNK Surface - UNK	
Wind Dir/Speed- 140/013 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Runway ATC/Airspace Type of Flight Plan - IFR Runway Type of Clearance - NONE Type Apch/Lndg - NONE	Ident - UNK Lth/Wid - UNK Surface - UNK	
Visibility - 10.0 SM ATC/Airspace Runway Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Lowest Ceiling - NONE Type of Clearance - NONE Runway Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	Lth/Wid - UNK Surface - UNK	
Lowest Sky/Clouds - CLEAR Type of Flight Plan - IFR Runway Lowest Ceiling - NONE Type of Clearance - NONE Runway Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	Surface - UNK	K/NR
Lowest Ceiling - NONE Type of Clearance - NONE Runway Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT		
Obstructions to Vision- NONE Type Apch/Lndg - NONE Precipitation - NONE Condition of Light - DAYLIGHT	J ta tab	
Precipitation - NONE Condition of Light - DAYLIGHT		.,
Personnel Information		
		TV5D6 (1 141T
Pilot-In-Command Age - 38 Medical Certificate - VALID Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Ho		IVERS/LIMII
PRIVATE Current - YES Total - 350		s - 4
SE LAND Months Since - 15 Make/Model - 35		
SE LAND Months Since - 15 Make/Model- 35 Aircraft Type - PA-28 Instrument- 94	Last 90 Day	ys- 65
Instrument Rating(s) - AIRPLANE		
Narrative		
ILE TAXIING ON THE EMPTY RAMP, THE LT WING OF THE ACFT COLLIDED WITH A FENCE. PRIOR TO THIS ACIDEN' ERATIONS PERSONNEL PLACED REFLECTORS ON THE FENCE TO INCREASE VISIBILITY OF IT. AS A RESULT OF THI		

Time (Lcl) - 1710 EDT File No. - 523 4/09/89 WEST PALM BEACH, FL A/C Reg. No. N80440

Occurrence #1 Phase of Operation TAXI - FROM LANDING

ON GROUND COLLISION WITH OBJECT

Finding(s)

- 1. OBJECT FENCE
- 2. DISTANCE MISJUDGED PILOT IN COMMAND
- 3. VISUAL LOOKOUT POOR PILOT IN COMMAND
- 4. PLANNING-DECISION POOR 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 INSURE ADEQUATE WINGTIP CLEARANCE WHILE TAXIING.

/IATION) Aircraft SUBSTAN Fire NONE		Fatal			None
Fire				Minor	None
NONE	Pass	-	0	0	1 1
Number Engines - 1 Engine Type - REC	:IPROCATING-CARBUR	9			
Type of Clearance -	NONE	ON AIR Airport E TAVERN Runway Runway Runway	RSTRIP Data NAERO PARK A: / Ident - / Lth/Wid - / Surface -	09 1800/ GRASS/TU	
ennial Flight Review Current - YES Months Since - 2	Flig Total - Make/Model-	ht Time (F 351	Hours) Last 24	Hrs - UN	K/NR
. 99	Number Engines - 1 Engine Type - REC Rated Power - Itinerary Last Departure Point MIAMI,FL Destination SAME AS ACC/INC ATC/Airspace D Type of Flight Plan - Type of Clearance - Type Apch/Lndg - - 55 Ennial Flight Review Current - YES Months Since - 2 Aircraft Type - UNK/NR	Number Engines - 1 Engine Type - RECIPROCATING-CARBUR Rated Power - 230 HP Itinerary Last Departure Point MIAMI,FL Destination SAME AS ACC/INC ATC/Airspace D Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 230 HP Itinerary Airport Last Departure Point ON AIR MIAMI,FL Destination Airport D SAME AS ACC/INC TAVERN Runway ATC/Airspace Runway Type of Flight Plan - NONE Runway Type of Clearance - NONE Runway Type Apch/Lndg - TRAFFIC PATTERN FULL STOP	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 230 HP Itinerary Last Departure Point MIAMI,FL Destination SAME AS ACC/INC ATC/Airspace D Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Medical Certificate - VALID MEDICAL-WAlennial Flight Review Current - YES Months Since - 2 Make/Model - 168 Last 30 Aircraft Type - UNK/NR Instrument - 16 Last 90	Number Engines - 1 Engine Type - RECIPROCATING-CARBURETOR Rated Power - 230 HP Itinerary Last Departure Point MIAMI,FL Destination SAME AS ACC/INC ATC/Airspace D Type of Flight Plan - NONE Type of Clearance - NONE Type Apch/Lndg - TRAFFIC PATTERN FULL STOP Medical Certificate - VALID MEDICAL-WAIVERS/LIM Fight Time (Hours) Current - YES Make/Model - 168 Last 24 Hrs - UNI Months Since - 2 Make/Model - 168 Last 30 Davs - UNI Stall Warning System Stall Warning System Stall Warning System Stall Warning System Airport Droximity ON AIRSTRIP ON AIRSTRIP Airport Data TAVERNAERO PARK AIRPORT Runway Ident - 09 Runway Lth/Wid - 1800/ Runway Status - DRY Type Apch/Lndg - TRAFFIC PATTERN FULL STOP

File No 5:	25 4/15/89	TAVERNIER, FL	A/C Reg. No. N7298N	Time (Lc1) - 1510 EDT
Occurrence #1 Phase of Operation				
3. COMPENSATION FOR	APS - NOT PERFORMED R WIND CONDITIONS	D - PILOT IN COMMAND - DISREGARDED - PILOT I - PILOT IN COMMAND	IN COMMAND	
Occurrence #2 Phase of Operation		ION WITH TERRAIN/WATER ROLLED		
Finding(s) 5. TERRAIN CONDITION	DN - WATER			
Probable Cause			Probable Cause(s) of this ac	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN RUNWAY ALIGNMENT AND RETRACT THE FLAPS TO THE RECOMMENDED SETTING DURING THE GO-AROUND.

File No 423 5/02/89 SUMMER	AND KEY, FL	A/C Reg. N	o. N28889	Т	ime (Lcl) -	2030 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft Dam	age		Injur	ies	
		DESTROYED		Fatal	Serious	Minor	None
Type of Operation -PUBLIC USE		Fire	Crev		Ο	0	0
Flight Conducted Under -PUBLIC USE Accident Occurred During -MANEUVERING		NONE	Pass	•	0	Ο	Ο
Aircraft Information							
Make/Model - DOUGLAS C-47	Eng Make/	Model - P&W R-1	830	ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TAILWHEEL-RETRACTABLE MAI	NS Number Eng	gines - 2		S	tall Warnir	g System	- YES
Max Gross Wt - 26200		oe - RECIPRO		RETOR			
No. of Seats - 2	Rated Powe	er - 1200 l	HP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depar	ture Point		OFF AI	RPORT/STRIP		
Method - N/A	MARATHON	, FL					
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 010 KTS						N/A	
Visibility - 10.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - 1500 FT SCATTI					Surface -		
Lowest Ceiling - NONE		earance - NON		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/	Lndg - NON	L				
Precipitation - NONE							
Condition of Light - UNK/NR							
Personnel Information							
Pilot-In-Command	ige - 52		cal Certifica			WAIVERS/	LIMII
	Biennial Flight F			ght Time (H		Llas	2
COMMERCIAL SE LAND,ME LAND,SE SEA,ME SEA	Current Months Since	- YES	Total - Total	8 105	Last 24	Ars -	J V /ND
SE LAND, ME LAND, SE SEA, ME SEA	Aircraft Type		Instrument-			Days- UN	
	All Craft Type		Multi-Eng -		Last 90	Days- UN	IK/ INK
		•	Multi-Eng -	2011			
Instrument Rating(s) - AIRPLANE							
Narrative							
HE FLT (A MONROE COUNTY MOSQUITO CONTROL OPN)							
OT RETURN, A SEARCH WAS INITIATED. AT ABOUT OF							
F SUMMERLAND KEY, FL. EVIDENCE AT THE ACDNT SO							
ING AS THE PLTS WERE MAKING A PROCEDURE TURN							
THE ACFT OR ENGS WAS FOUND. THERE WERE NO KNOWN							
SUNSET WAS AT 1952 EDT. ABOUT 22 MI SW AT KEY I			1500' SCAT, 1	IO MI VIS,	WIND FROM 3	30 DEG	
T 10 KTS. APRX 85 MI NNE, THE WIND WAS FROM 10	DO DEG AT 11 KTS	•					

5/02/89 File No. - 423 SUMMERLAND KEY, FL A/C Reg. No. N28889 Time (Lc1) - 2030 EDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. LIGHT CONDITION - DUSK 2. PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND 3. OBJECT - TREE(S) 4. 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:
THE FAILURE OF THE PILOT-IN-COMMAND TO ASSURE PROPER ALTITUDE AND CLEARANCE WAS MAINTAINED ABOVE THE TERRAIN AND
TREES. THE TREES AND LIGHT CONDITION AT DUSK WERE CONTRIBUTING FACTORS.

----Probable Cause----

Basic Information Type Operating Certificate-NONE	(GENERAL AVIATION)	Aircraft Damage			Injur	ies	
,, - , - , - , - , - , - , - , - , - ,	,	SUBSTANTIAL		Fatal	•		None
Type of Operation -PERSO		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CF Accident Occurred During -TAKEO		NONE	Pass	0	0	1	0
Aircraft Information Make/Model - CESSNA 172	Ena Maka	e/Model - CONTINENTA	0-200-D	C. T. 1	nstalled/Ad		VEC /VI
Landing Gear - TRICYCLE-FIXED		ingines - CUNTINENTA Ingines - 1	L U-300-D		:nstarred/Ad :all Warning		
Max Gross Wt - 2250	Engine T		ING-CARBURE		.arr marring	, 3,0 cc	123
No. of Seats - 4	Rated Po	ower - 145 HP					
Environment/Operations Information Weather Data	 Itinerary			Airport F)novimit.		
Wx Briefing - NO RECORD OF B		rture Point			RPORT/STRIP		
Method - N/A	THOMAST			0	., ., .,		
Completeness - N/A	Destinatio		A	Airport Da	ıta		
Basic Weather - VMC	TALLADE	GA,AL		D	T -1 1	N1 / A	
Wind Dir/Speed- 170/012 KTS Visibility - 7.0 SM	ATC/Airspac	· e			Ident - Lth/Wid -	N/A N/A	
Lowest Sky/Clouds - 400					Surface -		
		learance - NONE		Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch	ı/Lndg - NONE					
Precipitation - RAIN Condition of Light - DAYLIG	⊔T						
Personnel Information							
Pilot-In-Command	Age - 46 Biennial Flight	Medical	Certificate			WAIVERS/L	IMIT
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Current	Review - YES Tota	Flight al -	t Time (Ho 207	Last 24	Hne -	2
SE LAND	Months Sind	:e - 3 Mak	e/Model-				4
	Aircraft Ty	pe - C-172 Ins	trument-	10	Last 90	Days-	8
		Mul	ti-Eng -	0			
Instrument Rating(s) - NONE							
Narrative							
PLT ENCOUNTERED BAD WX DURING FLT	& MADE AN EMERGENCY LAN	DING IN AN OPEN FIE	LD THAT WAS	SHORT, RO	DUGH & WET.		
HE TRIED TO TAKEOFF FROM THE FIEL	D A SHORT TIME LATER T	HE ATRPLANE DID NOT	ATTAIN FNOL	JGH AIRSPE	ED TO FLY.		

File No. - 451 6/20/89 A/C Reg. No. N1434Y Time (Lc1) - 1330 EDT FRANKLIN, GA

Occurrence #1

ON GROUND COLLISION WITH OBJECT

Phase of Operation TAKEOFF - ABORTED

Finding(s)

- 1. PLANNING-DECISION IMPROPER PILOT IN COMMAND
- 2. UNSUITABLE TERRAIN
- 3. TERRAIN CONDITION ROUGH/UNEVEN
- 4. TERRAIN CONDITION SOFT
- 5. TERRAIN CONDITION WET
- 6. OBJECT FENCE
- 7. ABORTED TAKEOFF DELAYED PILOT IN COMMAND

Occurrence #2

NOSE OVER

Phase of Operation TAKEOFF - ABORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT BY ATTEMPTING TO TAKEOFF FROM AN UNSUITABLE FIELD AND HIS DELAY IN ABORTING THE TAKEOFF. THE TERRAIN CONDITIONS AND FENCE WERE CONTRIBUTING FACTORS.

File No 467 6/04/89 CEDAR	RAPIDS,IA A/C R	Reg. No. N373TC	Т	ime (Lcl) - 17	OO CDT	
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf SUBSTA	t Damage NTIAL	Fatal	Injuries Serious M	linor	None
Type of Operation -TEST FLIGHT Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass	0 0	1 0	0	0
Aircraft Information Make/Model - OLSON BD-4 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Engines - 1 Engine Type - RE		S	Installed/Acti stall Warning S	vated -	YES/NO NO
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 - 15.0 SM Lowest Sky/Clouds - 4500 FT SCAT Lowest Ceiling - 25000 FT OVER Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	CEDAR RAPIDS,IA Destination LOCAL ATC/Airspace TERED Type of Flight Plan	- NONE - NONE	ON AIR Airport D CEDAR Runway Runway Runway		OOO/ 1	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE	Age - 36 Biennial Flight Review Current - YES	Total -	nt Time (F 86	lours) Last 24 Hr	s -	2
SE LAND	Months Since - 1 Aircraft Type - C-152	Make/Model- Instrument- Multi-Eng -	2 3 0	Last 30 Da Last 90 Da Rotorcraft		6 6 0
Instrument Rating(s) - NONE						
Narrative AFTER MAKING TWO PRACTICE VFR APPROACHES WITH AIRCRAFT BOUNCED AND HE LOST RUNWAY ALIGNMENT LOST CONTROL OF THE ACFT, IT STALLED, THEN IT BROKEN ARM. HE HAD ACCUMULATED A TOTAL FLIGHT HOME-BUILT AIRCRAFT. THIS WAS A FLIGHT TO EST TWO HRS FLIGHT TIME IN THIS MAKE AND MODEL OF	, SO HE ELECTÉD TO GO-AROUN ROLLED INVERTED AND COLLIC TIME OF 86 HRS, OF WHICH, ABLISH THE FLIGHT CHARACTER	ND. ALSO, HE SAID TH DED WITH THE TERRAIN TWO HRS WERE IN THI	HAT AT ABO I. THE PIL IS TAILWHE	OUT 20 FT AGL, OT SUFFERED A EL CONFIGURED,		

File No. - 467 6/04/89 CEDAR RAPIDS, IA A/C Reg. No. N373TC Time (Lcl) - 1700 CDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. RECOVERY FROM BOUNCED LANDING - PERFORMED - PILOT IN COMMAND 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND 4. ABORTED LANDING - INITIATED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - ABORTED Finding(s) 5. LIFT-OFF - PREMATURE - PILOT IN COMMAND 6. STALL - INADVERTENT - PILOT IN COMMAND Occurrence #3 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:

PREMATURE LIFT-OFF AND INADVERTENT STALL BY THE PILOT. A LOSS OF DIRECTIONAL CONTROL AND AN INADVERTENT GROUND SWERVE BY THE PILOT WERE CONTRIBUTING FACTORS.

File No 563 7/10/89 PERRY	',IA	A/C Reg. No. N	1066	Т	ime (Lcl)	- 1030 C	DT
Basic Information Type Operating Certificate-NONE (GENER		Aircraft Damage		Fatal		ries Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	f	SUBSTANTIAL Fire NONE	Crew Pass	0 0	0 0	M1 NO N 1 0	
Aircraft Information Make/Model - BRISTOW KR-2 Landing Gear - TAILWHEEL-RETRACTABLE M Max Gross Wt - 1000 No. of Seats - 2	MAINS Number Engine			S R	tall Warni	ng Syste	ed - YES/YES m - NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 260/006 KTS Visibility - 15.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - UNK/NR Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	PERRY,IA Destination LOCAL ATC/Airspace Type of Flight Type of Cleara	e Point t Plan - NONE	Aí	irport OFF AI rport D Runway Runway Runway	Proximity RPORT/STRI	P - N/A - N/A - DIRT - DRY	'EGETATION
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 59 Biennial Flight Rev Current - Months Since - Aircraft Type -	iew YES Tota 13 Make	Certificate Flight 1 - 3 /Model- UNK/ rument-	Time (H 85 NR	ours) Last 2 Last 3	4 Hrs - O Days-	UNK/NR UNK/NR
Instrument Rating(s) - NONE							
Narrative HILE FLYING HIS NEWLY BUILT HOMEBUILT AIRCRA MERGENCY DESCENT WAS MADE INTO A BEAN FIELD HE PLT. POST ACCIDENT INVESTIGATION REVEALED TARVATION.	RESULTING IN SUBSTANT	TIAL DAMAGE TO T	HE ACFT AND	MINOR I	NJURIES TO		

File No. - 563 7/10/89 A/C Reg. No. N1066 Time (Lcl) - 1030 CDT PERRY, IA Occurrence #1 LOSS OF ENGINE POWER Phase of Operation MANEUVERING Finding(s) 1. FLUID, FUEL - CONTAMINATION 2. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #3 Phase of Operation LANDING - FLARE/TOUCHDOWN 3. TERRAIN CONDITION - CROP ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION CAUSED BY FUEL CONTAMINATION.

File No 518 7/18/89 DES	MOINES, IA	A/C Reg. No	. N701AS	Т	ime (Lcl) -	0230 CD	Г
Basic Information Type Operating Certificate-ON-DEMAND A Name of Carrier -NEW CREATIO Type of Operation -NON SCHED,D Flight Conducted Under -14 CFR 135 Accident Occurred During -LANDING	NS INC	Aircraft Dama SUBSTANTIAL Fire NONE	ge Crew Pass		Injur Serious O O	ries Minor O 1	None 2 0
Aircraft Information Make/Model - GATES LEARJET 35 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 18300 No. of Seats - 3	Number E Engine 1	e/Model - GARRETT Ingines - 2 Type - TURBOFAN Ower - 3500 L	!		Installed/Æ tall Warnir		
Environment/Operations Information Weather Data Wx Briefing - FSS Method - ACFT RADIO Completeness - FULL Basic Weather - IMC Wind Dir/Speed- 200/009 KTS Visibility - 1.000 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 1400 FT BRO Obstructions to Vision- FOG Precipitation - RAIN Condition of Light - NIGHT(DARK)	DENVER, Destination SAME AS ATC/Airspace Type of F KEN Type of O	on S ACC/INC Se Flight Plan - IFR Clearance - IFR n/Lndg - ILS-		ON AIR Airport D DES MO Runway Runway Runway Runway	ata INES INTL Ident - Lth/Wid - Surface - Status -	- ASPHALT	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP,CFI SE LAND,ME LAND	Age - 30 Biennial Flight Current Months Sind Aircraft Ty	Review - YES T	al Certifica Flig otal - ake/Model- nstrument- ulti-Eng -	ht Time (H 6554	ours) Last 24	l Hrs -	/LIMIT 3 89 270 0
Instrument Rating(s) - AIRPLANE							
Narrative HE PIC RPRTD THAT DURING AN IFR ARRIVAL TO LECTED TO MAKE A MISSED APCH. DURING A 2ND NLY LIGHT RAIN & WINDS, SO HE CONTINUED FOR IOWEVER, THE PLT RPRTD THAT WHEN HE APPLIED IFF THE RIGHT SIDE OF THE RWY, THOUGH IT WAS IGHT ABUTMENTS & WAS DAMAGED. THE RWY WAS R ATER, WATER WAS STILL STANDING IN LOW POINT CONTROLLER HAD NOT WARNED HIM OF POSSIBLE HY	THE DES MOINES IN APCH (ILS RWY 30F A LANDING. THE ABRAKES, HE REALIZED TO PRID TO SLOPE DOWNS ON THE RWY, THO DROPLANING THOUGH	NTL ARPT, HE DETECT APCH), WX CONDITAPCH & TOUCHDOWN WE CENTED THE ACT WAS HE ACT THE ACT AND TOWARD THE COUGH RAIN HAD STOPH AT LEAST 2 INCHE	TED WHAT SEE IONS WERE BE ERE NORMAL 8 YROPLANING. FT THEN ENCT MIDPOINT. TH PED FALLING. S OF RAIN HA	MED TO BE TTTER & TOW REVERSE T SOON THERE TO SOFT MU HE PLT STAT ALSO, HE	ER PSNL RPF HRUST WAS N AFTER, IT A D, HIT 2 LA ED THAT A F STATED THE	RTD NOT USED. ANGLED ANDING FEW HRS LOCAL	

File No. - 518 7/18/89 DES MOINES,IA A/C Reg. No. N701AS Time (Lc1) - 0230 CDT

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

- 1. WEATHER CONDITION RAIN
- 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION WET
- 3. COMMUNICATIONS/INFORMATION/ATC INFORMATION INSUFFICIENT ATC PSNL(LCL/GND/CLNC)
- 4. REVERSERS NOT USED PILOT IN COMMAND
- 5. AIRCRAFT PERFORMANCE, HYDROPLANING CONDITION -
- 6. WEATHER CONDITION CROSSWIND
- 7. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 8. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

9. TERRAIN CONDITION - SOFT

10. OBJECT - RUNWAY LIGHT

----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 AND RUNWAY ALIGNMENT DURING THE LANDING. FACTORS RELATED TO THE ACCIDENT WERE: ADVERSE WEATHER/RUNWAY/TERRAIN CONDITIONS, FAILURE OF THE LOCAL CONTROLLER TO WARN THE PILOT OF POSSIBLE HYDROPLANING CONDITIONS, THE PILOT'S DECISION NOT TO USE REVERSE THRUST, AND RUNWAY LIGHT ABUTMENTS.

```
Time (Lcl) - 1045 MDT
                           5/09/89
      File No. - 426
                                     STAR.ID
                                                             A/C Reg. No. N5531N
----Basic Information----
     Type Operating Certificate-NONE (GENERAL AVIATION)
                                                             Aircraft Damage
                                                              SUBSTANTIAL
                                                                                        Fatal Serious Minor
                                                                                                                    None
     Type of Operation
                             -PERSONAL
                                                             Fire
                                                                                       0
                                                                                                1
                                                                                                                     0
                                                                                 Crew
     Flight Conducted Under -14 CFR 91
                                                              NONE
                                                                                 Pass
                                                                                          0
                                                                                                                      0
     Accident Occurred During -LANDING
----Aircraft Information----
     Make/Model - DAVIS STARSHIP ALPHA
                                                  Eng Make/Model - KAWASAKI TA440F-204
                                                                                          ELT Installed/Activated - NO -N/A
     Landing Gear - TRICYCLE-RETRACTABLE
                                                 Number Engines - 1
                                                                                             Stall Warning System - YES
     Max Gross Wt -
                                                  Engine Type - RECIPROCATING-CARBURETOR
                                                  Rated Power - 40 HP
     No. of Seats -
----Environment/Operations Information----
   Weather Data
                                               Itinerary
                                                                                      Airport Proximity
     Wx Briefing
                    - NO RECORD OF BRIEFING
                                               Last Departure Point
                                                                                        ON AIRPORT
                    - N/A
                                                NAMPA.ID
       Method
       Completeness - N/A
                                                Destination
                                                                                     Airport Data
     Basic Weather - VMC
                                                  LOCAL
                                                                                         JUMP WEST
       Wind Dir/Speed- 170/015 KTS
                                                                                         Runway Ident - 05
       Visibility - 30.0 SM
                                                                                         Runway Lth/Wid - 4200/
                                              ATC/Airspace
       Lowest Sky/Clouds - 7000 FT SCATTERED Type of Flight Plan - NONE
                                                                                         Runway Surface - ASPHALT
       Lowest Ceiling - 12000 FT BROKEN Type of Clearance - NONE
                                                                                         Runway Status - DRY
                                                Type Apch/Lndg - FORCED LANDING
       Obstructions to Vision- NONE
       Precipitation - NONE
       Condition of Light - DAYLIGHT
----Personnel Information----
    Pilot-In-Command
                                           Age - 47 Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT
                                           Biennial Flight Review Flight Time (Hours)
      Certificate(s)/Rating(s)
         PRIVATE
                                              Current - UNK/NR Total - 309
                                                                                               Last 24 Hrs -
                                              Current - UNK/NR 101a1 - 303 - 231 - 2.... - Months Since - UNK/NR Make/Model - 170 Last 30 Days-Aircraft Type - UNK/NR Instrument - 0 Last 90 Days-Multi-Eng - 0 Rotorcraft -
         SE LAND
                                                                                                                  14
         Instrument Rating(s) - NONE
----Narrative----
THE PLT MADE A LOW PASS OVER THE AIRPORT TO CHECK THE RWY, THEN DECIDED NOT TO LAND. WHEN HE APPLIED POWER TO
INITIATE A GO-AROUND, TEETH STRIPPED OFF OF THE PROP DRIVE BELT. THIS RESULTED IN AN INTERRUPTION OF POWER TO
THE PROP. THE PLT MANEUVERED THE ACFT BACK TOWARD THE ARPT IN STRONG GUSTY WINDS, BUT WAS UNABLE TO LAND ON THE
RWY. SUBSEQUENTLY, THE ACFT WAS EXTENSIVELY DAMAGED WHEN IT IMPACTED ON A SMALL HILL ABOUT 100' NORTH OF THE RWY.
THE PLT RPRTD THE WIND WAS FROM THE SOUTH AT 15 GUSTING 20 KTS.
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5/09/89 A/C Reg. No. N5531N Time (Lc1) - 1045 MDT File No. - 426 STAR, ID AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Occurrence #1 Phase of Operation GO-AROUND (VFR) Finding(s) 1. PROPELLER SYSTEM/ACCESSORIES - FAILURE, TOTAL Occurrence #2 FORCED LANDING Phase of Operation MANEUVERING - TURN TO LANDING AREA (EMERGENCY) Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 2. WEATHER CONDITION - GUSTS 3. TERRAIN CONDITION - MOUNTAINOUS/HILLY ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PROPELLER DRIVE BELT (STRIPPED TEETH). CONTRIBUTING FACTORS WERE: STRONG/GUSTY WINDS AND THE HILLY TERRAIN.

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5/30/89 LEWISTON, ID
                                                          A/C Reg. No. N2756Y Time (Lcl) - 1130 PDT
      File No. - 528
  --Basic Information----
     Type Operating Certificate-ON-DEMAND AIR TAXI
                                                         Aircraft Damage
                                                                                             Injuries
     Name of Carrier -JERRY WILSON SUBSTANTIAL
Type of Operation -NON SCHED, DOMESTIC, PASSENGER Fire
Flight Conducted Under -14 CFR 135 NONE
                                                         SUBSTANTIAL
                                                                                  Fatal Serious Minor
                                                                                                             None
                                                                                  0 0
                                                                                                    Ω
                                                                            Crew
                                                                                                             1
                                                                            Pass
     Accident Occurred During -LANDING
    -
----Aircraft Information----
                                                                                  ELT Installed/Activated - YES/YES
     Make/Model - BELL 206B III
                                               Eng Make/Model - ALLISON 250-C20B
                                              Number Engines - 1
     Landing Gear - SKID
                                                                                    Stall Warning System - NO
     Max Gross Wt - 3200
                                              Engine Type - TURBOSHAFT
     No. of Seats - 5
                                               Rated Power
                                                            - 420 HP
----Environment/Operations Information----
   Weather Data
                                            Itinerary
                                                                                 Airport Proximity
     Wx Briefina
                  - NO RECORD OF BRIEFING
                                            Last Departure Point
                                                                                  OFF AIRPORT/STRIP
       Method
                  - N/A
                                              LEWISTON, ID
       Completeness - N/A
                                             Destination
                                                                                Airport Data
     Basic Weather - VMC
                                             MCCALL.ID
       Wind Dir/Speed- 360/008 KTS
                                                                                   Runway Ident - N/A
                                   ATC/Airspace
       Visibility - 40.0 SM
                                                                                   Runway Lth/Wid - N/A
       Lowest Sky/Clouds - 6500 FT SCATTERED Type of Flight Plan - COMPANY (VFR)
                                                                                   Runway Surface - N/A
      Lowest Ceiling - NONE Type of Clearance - NONE
                                                                                   Runway Status - N/A
                                            Type Apch/Lndg - FORCED LANDING
       Obstructions to Vision- NONE
       Precipitation - NONE
       Condition of Light - NIGHT(BRIGHT)
----Personnel Information----
                                       Age - 41 Medical Co
Biennial Flight Review
    Pilot-In-Command
                                                                Medical Certificate - VALID MEDICAL-NO WAIVERS/LIMIT
                                                                            Flight Time (Hours)
      Certificate(s)/Rating(s)
        ATP
                                         Current - UNK/NR
                                                                    Total - 5336 Last 24 Hrs - UNK/NR
                                                                                            Last 30 Days- UNK/NR
        SE LAND
                                            Months Since - UNK/NR Make/Model-
                                                                                 2957
                                            Aircraft Type - UNK/NR Instrument- 488
        HELICOPTER
                                                                                            Last 90 Days- UNK/NR
                                                                                            Rotorcraft - 5287
        Instrument Rating(s) - HELICOPTER
----Narrative----
DURING CRUISE FLIGHT. THE PILOT REPORTED THAT THE ENGINE LOST POWER. A FORCED LANDING WAS INTIATED ON SLOPING
TERRAIN. THE HELICOPTER COLLIDED WITH THE TERRAIN AND ROLLED OVER. THE WRECKAGE WAS REMOVED FOR INSPECTION. AN
ENGINE TEST RUN WAS PERFORMED WITH NO MECHANICAL FAILURES OR MALFUNCTIONS REPORTED.
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File No. - 528 5/30/89 LEWISTON, ID A/C Reg. No. N2756Y Time (Lc1) - 1130 PDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) UNDETERMINED Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 2. TERRAIN CONDITION - NONE SUITABLE Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - EMERGENCY Finding(s) 3. TERRAIN CONDITION - MOUNTAINOUS/HILLY Occurrence #4 ROLL OVER Phase of Operation LANDING - FLARE/TOUCHDOWN The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:

A LOSS OF ENGINE POWER FOR UNDETERMINED REASONS. A FACTOR IN THE ACCIDENT WAS THE LACK OF SUITABLE TERRAIN FOR A FORCED LANDING.

File No 599 3/15/89 WE	EST LAFAYETTE, IN	A/C Reg. No. N	128MP	Τi	ime (Lc1) -	0726 EST	-
Basic Information Type Operating Certificate-AIR CARRI Name of Carrier -MID PACIF Type of Operation -NON SCHEE Flight Conducted Under -14 CFR 12 Accident Occurred During -APPROACH	FIC AIRLINES D,DOMESTIC,CARGO	Aircraft Damage DESTROYED Fire ON GROUND	F Crew Pass	Fatal 2 0	Injur Serious O O	ries Minor O O	None 0 0
-Aircraft Information Make/Model - NIHON YS-11A-600 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 55110 No. of Seats - 3		•	DART 542-10		installed/A tall Warnin		
Environment/Operations Information Weather Data Wx Briefing - COMPANY Method - IN PERSON Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 280/016 KTS Visibility - 8.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 2200 FT COUNTY OUTSTONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAWN	Itinerary Last Depar TERRE HA Destination WEST LAF ATC/Airspace Type of Fl	UTE,IN AYETTE,IN ight Plan - IFR earance - IFR Lndg - VISUAL		OFF AIR PORT Da PURDUE Runway Runway Runway Runway	UNIVERSITY Ident - Lth/Wid - Surface -	AIRPORT 28 6600/	150
-Personnel Information Pilot-In-Command	Age - 36		Certificate -			WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s) ATP</pre>	Biennial Flight Current	Review - YES Tota	Flight T 1 - 729		ours) Last 24	Hrs -	3
SE LAND, ME LAND	Months Since	- 8 Make	/Model- 209	97	Last 30	Days-	21
	Aircraft Typ		rument- UNK/N i-Eng - 379		Last 90 Rotorcr		61 O
Instrument Rating(s) - AIRPLANE	<u> </u>		_				
IFR FLIGHT WAS TERMINATED WITH A VISUAL S BEING POSITIONED EMPTY, WITH A CG AT 2 NDING FLAP WAS SELECTED. THE AIRCRAFT WAS SCENT. A PARTIAL RECOVERY WAS OBSERVED E THE AIRFRAME AFTER THE ACCIDENT REVEALE RIZONTAL STABILIZER. NO ICE WAS FOUND ON AT ENGINE, PITOT, AND WINDSHIELD ANTI-IC WERPLANT OR SYSTEMS MALFUNCTION WAS FOUN	22.1% MAC. ON SHORT F AS OBSERVED TO PITCH BEFORE THE AIRCRAFT I ED 1/2 TO 3/4 INCH OF N ANY OTHER PORTION O CE SYSTEMS WERE ON, B	INAL, AT APPROXIMAT DOWNWARD TO AN UNUS MPACTED A DIRT HILL RIME ICE ADHERING F THE AIRFRAME. EVII	ELY 400 FT AG UAL ATTITUDE 500 FT SHORT TO THE LEADIN DENCE IN THE	AL, 35 D AND TO OF RWY IG EDGE COCKPIT	DEGREES OF ENTER A ST 28. EXAMI OF THE INDICATED	NATION	

File No. - 599 3/15/89 WEST LAFAYETTE,IN A/C Reg. No. N128MP Time (Lc1) - 0726 EST Occurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH Finding(s) 1. WEATHER CONDITION - ICING CONDITIONS 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 3. HORIZONTAL STABILIZER SURFACE - ICE 4. ANTI-ICE/DE-ICE SYSTEM - NOT USED - COPILOT/SECOND PILOT 5. LOWERING OF FLAPS - EXCESSIVE -Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 6. TERRAIN CONDITION - DIRT BANK ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A LOSS OF CONTROL DUE TO THE IMPROPER INFLIGHT DECISIONS BY THE CREW AND THE UNDETECTED ACCUMULATION OF ICE ON THE

LEADING EDGE OF THE HORIZONTAL STABILIZER, DURING FLIGHT IN A FORWARD CENTER OF GRAVITY CONDITION AND EXACERBATED BY THE EXTENSION OF FULL LANDING FLAPS.

-Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION)	Aircraft D				uries	
		SUBSTANTI		Fata			None
Type of Operation -PERSONAL		Fire			0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE			0	0	1
-Aircraft Information							
Make/Model - CESSNA 140		Model - CONTI	NENTAL C-85		T Installed		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1450		gines - 1 pe - RECIP			Stall Warn	ing System	- NO
No. of Seats - 2	Rated Pow		S HP				
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Depar	tuno Boint			rt Proximity NIRPORT		
Method - N/A	Last Depar TERRE HA			UN A	AIKPUKI		
Completeness - N/A	Destination	•		Airport	t Data		
Basic Weather - VMC	NEW DOUG			•	MAN REG.		
Wind Dir/Speed- 310/011 KTS		,		Run	vay Ident	- 05	
Visibility - 15.0 SM	ATC/Airspace				way Lth/Wid		
Lowest Sky/Clouds - N/A	. , , , , , , , , , , , , , , , , , , ,				way Surface		
Lowest Ceiling - 10000 FT BROKE				Runi	way Status	- DRY	
Obstructions to Vision- NONE	Type Apch/	Lndg - N	IONE				
Precipitation → NONE Condition of Light - DAYLIGHT							
-Personnel Information							/
	Age - 60 Biennial Flight	Me	edical Certif	ficate - VAL Flight Time	ID MEDICAL-	NO WAIVERS	/ LIMII
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Current	- VEC	Total	~ 344	(AUUUTS)	24 Hrs -	3
SE LAND	Current Months Since	- 23	Make/Model	- 185	Last	30 Davs-	4
SE EARL	Aircraft Typ	e - C-140	Instrument	:- 0	Last	90 Days-	
	•					-	
Instrument Rating(s) - NONE							
-Narrative							
PILOT EXPERIENCED A LOSS OF DIRECTIONAL CO							
T AND GROUND- LOOPED, STRIKING THE RIGHT WI							
AIRCRAFT REVEALED A FLAT RIGHT MAIN TIRE.	THE ATENT KEDOKI	FD THAT MINDS	WERE OUT OF	310 DEGREE	:5 AI 11 KNU	12	

File No. - 571 5/12/89 TERRE HAUTE, IN A/C Reg. No. N77201 Time (Lc1) - 1345 CDT

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

Finding(s)

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

Occurrence #2 NOSE DOWN TAKEOFF - GROUND RUN

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S INABILITY TO MAINTAIN DIRECTIONAL CONTROL DURING THE TAKEOFF ROLL. A FACTOR IN THE ACCIDENT WAS THE CROSSWIND.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraft	Damage		Injur	ies	
	SUBSTAN	ITIAL		Serious		None
Type of Operation -PERSONAL	Fire	Crev	, 0	0 0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	NONE	Pass	0	O	O	1
Aircraft Information						
Make/Model - BOEING E75	Eng Make/Model - LYC Number Engines - 1	OMING R-680	FLI	Installed/A	ctivated	- YES/N
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2800	Engine Type - REC	TDDOCATING-CADRUE) DETOD	tari warning	g system	- NU
No. of Seats - 2	Rated Power -		KLIOK			
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NWS Method - TELEPHONE	Last Departure Point		ON AIR	PORT		
Method - TELEPHUNE Completeness - WEATHER NOT PERTINENT	SAME AS ACC/INC Destination		Airport D	2+2		
Basic Weather - VMC	LOCAL		SHELBY			
Wind Dir/Speed- 210/014 KTS				Ident -	27	
Visibility - 20.0 SM				Lth/Wid -		190
Lowest Sky/Clouds - 6500 FT SCAT	TERED Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance -	NONE	Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 51	Medical Certifica	ate - VALID	MEDICAL-WA	TVFRS/LIM	דד
<pre>Certificate(s)/Rating(s)</pre>	Riennial Flight Peview	Flig	ght Time (H	ours)		
PRIVATE	Current - YES	Total -	385	Last 24	Hrs -	2
SE LAND	Current - YES Months Since - 12 Aircraft Type - E75	Make/Model-	210	Last 30	Days-	3
	Aircraft Type - E75	Instrument-	5	Last 90	Days-	8
Instrument Rating(s) - NONE						
Narrative	DD DWY AT AN UNCONTROLLED AS	DT LIC ATTEMPTOR	L WAS FOODS	ED ON CONEL	TOTINO	
PLT RPRTD THAT WHILE ON FINAL APCH TO A S FIC & HE INADVERTENTLY ALLOWED THE ACFT T						
H BLENDED WITH THE BACKGROUND. SUBSEQUENT						
I BEENBED WITH THE BACKGROUND: SOBSEQUENT	, THE ACONT ACFT STRUCK 3 PA					

File No 4	46 6/17/89	SHELBYVILLE, IN	A/C Reg. No. N43YP	Time (Lcl) - 1642 EDT	
Occurrence #1 Phase of Operation		PATTERN - FINAL APPROACH			
2. DISTANCE - MISC 3. ALTITUDE - MISC	UDGED - PILOT IN	COMMAND COMMAND			
Occurrence #2 Phase of Operation		SION WITH OBJECT PATTERN - FINAL APPROACH			
Finding(s) 5. OBJECT - WIRE,T 6. CLEARANCE - N		LOT IN COMMAND			
Occurrence #3 Phase of Operation	ON GROUND COLLIS	SION WITH OBJECT			
Finding(s) 7. OBJECT - AIRCRA	FT PARKED				
Probable Cause					
THE PILOT ALLOWED HI	S ATTENTION TO BE	DEVAITED, MISJUDGED ALT	Probable Cause(s) of this accid ITUDE AND DISTANCE TO THE RUNWA NES. CONTRIBUTING FACTORS WERE:	Y WHILE ON FINAL	

PARKED AIRCRAFT.

File No 460 5/31/89 SCANE	IA,KS	A/C Reg. No. N74	1502	1 1	ime (Lcl)	- 1500 CD	Т
Basic Information Type Operating Certificate-AGRICULTURAL	ATDODAET	Aircraft Damage			Inju	niae	
Type operating certificate-agricultoral		SUBSTANTIAL	ſ	atal	Serious	Minor	None
Type of Operation -AERIAL APPLI		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 137	OA, I OI	NONE	Pass	Ö	ŏ	Ö	0
Accident Occurred During -LANDING				_			
·Aircraft Information							
Make/Model - PIPER PA-25-235		el - LYCOMING 0-54	IO-B2C5				
Landing Gear - TAILWHEEL-ALL FIXED	Number Engin				tall Warni	ng System	- YES
Max Gross Wt - 2900		- RECIPROCATING	G-CARBURETO	3			
No. of Seats - 1	Rated Power	- 235 HP					
Environment/Operations Information	T. f. frances and the second		Ā	:	S		
Weather Data	Itinerary Last Departur	o Doint			Proximity RPORT/STRI	D	
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	East Departur BELLEVILLE.			OFF AIR	RPURI/SIRI	۲	
Completeness - N/A	Destination	K3	Λi	port Da	a t a		
Basic Weather - VMC	LOCAL		A 11	por c be			
Wind Dir/Speed- 340/013 KTS	EGOAL			Runway	Ident	- N/A	
Visibility - 7.0 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - N/A		t Plan - NONE		Runway	Surface	- N/A	
Lowest Ceiling - 2500 FT OVER	CAST Type of Clear	ance - NONE		Runway	Status	- N/A	
Obstructions to Vision- NONE	Type Apch/Lnd	g - FORCED LA	NDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information				V/41 75	MED 7041 N	0 11471/500	/L TAATT
Pilot-In-Command	Age - 28 Biennial Flight Rev	Medical Ce iew	ertificate Flight			O WAIVERS	/ LIMII
<pre>Certificate(s)/Rating(s) COMMERCIAL</pre>	Cuppopt -	TOTAL	Fright	inme (Hu	ours)	4 Hns -	2
SE LAND	Current - Months Since -	7 Make/N	- 9: Model- 6: ument-)3 20	Last 2	0 Dave-	47
SL LAND	Aircraft Type -	17-304 Instru	ment-	11	Last 9	O Days O Days-	252
	A,,, 5, 4, 6, 7, p5	7, 33, 2,,30,				·, -	
Instrument Rating(s) - NONE							
-Narrative							
PILOT SAID THAT HE HAD COMPLETED AERIAL A							
SEQUENTLY, THE ENGINE LOST POWER FROM FUEL	EXHAUSTION, DURING	AN EMERGENCY LANDI	ING, THE AI	RCRAFT S	STRUCK SMA	LL	
ES AND THEN THE TERRAIN, AND WAS DAMAGED.			•				

File No 4	60 5/31/89	SCANDIA,KS	A/C Reg. No. N7450Z	Time (Lcl) - 1500 CDT
Occurrence #1 Phase of Operation		POWER(TOTAL) - NON-MEC	CHANICAL	
	ING/DECISION - IMF	RTENT - PILOT IN COMMA ROPER - PILOT IN COMM	MAND	
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE			
Occurrence #3 Phase of Operation		SION WITH OBJECT		
Finding(s) 4. OBJECT - TREE(S)			
Occurrence #4 Phase of Operation		ION WITH TERRAIN/WATE	R	
Probable Cause				·

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING/DECISION BY THE PILOT AND FUEL EXHAUSTION. CONTRIBUTING FACTORS WERE THE PILOT BECOMING LOST/DISORIENTED AND SMALL TREES.

File No 453 1/07/89 PADU	CAH,KY A/C F	A/C Reg. No. N784K		Time (Lc1) - 1935 CST			
Basic Information Type Operating Certificate-NONE (GENER.	·	t Damage	Fatal	Injur Serious	ies Minor	None	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	Fire NONE	Crew Pass	0	0	1	0	
Aircraft Information Make/Model - BEECH B-90 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 9650 No. of Seats - 8	Eng Make/Model - P& Number Engines - 2 Engine Type - TU Rated Power -			Installed/A			
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 220/022 KTS Visibility - 8.0 SM Lowest Sky/Clouds - 2100 FT SCA Lowest Ceiling - 7000 FT BRO Obstructions to Vision- NONE Precipitation - NONE Condition of Light - NIGHT(DARK)	Itinerary Last Departure Point SHENANDOAH,IA Destination DECATUR,AL ATC/Airspace ITERED Type of Flight Plan KEN Type of Clearance Type Apch/Lndg	- IFR	OFF AI Airport D BARKLE Runway Runway Runway Runway	Y REGIONAL Ident - Lth/Wid - Surface -	· 22 · 6500/	150	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND	Age - 49 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - KINGA	Total - Make/Model-	ght Time (H		Hrs - Days-	AIT 2 10 13	
Instrument Rating(s) - AIRPLANE							
DRG A RTRN FLT AT NGT TO DECATUR, AL, THE PLWHICH HAD BEEN FORECASTED. WHILE AVOIDING TS IRREGULARITY & THAT THE LEFT & RGT BOOST PUMHE SAID HAD JUMPED FROM THE PROP, SPINNER OR PADUCAH. AFTER THE ARPT WAS IN SIGHT, HE NEED TURNING, HE LOST SIGHT OF THE ARPT, THEN ROLINDUSTRIAL COMPLEX. WHEN HE REALIZED HIS ERR THE ACFT LOST ALT, HIT TREES & CRASHED. AN EMPTYSICAL EVIDENCE OF A LIGHTNING STRIKE WAS	TMS, HE NOTED A REDUCTION IN PS WERE INOP. THESE OCCURREN NACELLE AREA TO THE ACFT'S DED TO LOSE ALT BEFORE LAND: LED OUT ON THE WRONG HEADING OR & SAW THE ARPT, HE TURNEN XAM OF THE ENGS & FUEL PUMP:	N ENG POWER, A SLIG O AT ABOUT THE TIME NOSE. DUE TO THE W ING & WAS CLEARED T & & STARTED FLYING O TOWARD THE RWY; E O REVEALED NO INDCN	HT YAW, IN HE SAW A X, HE ELEC O MAKE A 3 TOWARD A S BUT AS HE W I OF A PREI	DCNS OF FUE WHITE ARC TED TO DIVE 60 DEG TURN TROBE LIGHT AS MANEUVER MPACT FAILL	EL FLOW WHICH ERT TO I. WHILE AT AN RING,		

File No. - 453 1/07/89 PADUCAH, KY A/C Req. No. N784K Time (Lcl) - 1935 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation CRUISE Finding(s) 1. FLIGHT/NAV INSTRUMENTS, WEATHER RADAR SYSTEM - INOPERATIVE 2. WEATHER CONDITION - THUNDERSTORM 3. WEATHER CONDITION - LIGHTNING 4. ELECTRICAL SYSTEM - UNDETERMINED 5. FUEL SYSTEM, ELECTRIC BOOST PUMP - INOPERATIVE Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH Finding(s) 6. LIGHT CONDITION - DARK NIGHT 7. PLANNED APPROACH - IMPROPER - PILOT IN COMMAND 8. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND 9. MANEUVER - INITIATED -10. OBJECT - TREE(S) 11. PROPER ALTITUDE - NOT MAINTAINED - 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:
PILOT FAILED TO MAINTAIN PROPER ALTITUDE WHILE MANEUVERING TO LAND. PROBABLE CONTRIBUTING FACTORS WERE INOPERATIVE
WEATHER RADAR, THUNDERSTORMS, LIGHTNING, AN UNDETERMINED ELECTRICAL PROBLEM, DARK NIGHT, THE PILOT'S IMPROPERLY PLANNED
APPROACH AND VISUAL PERCEPTION, AND THE TREES.

File No 533 1/14/	89 TURNERS	FALLS, MA	A/C Reg. N	lo. N1057X	Т	ime (Lcl)	- 1210 EST	Γ
-Basic Information								
Type Operating Certificate-N	IONE (GENERAL	AVIATION)	Aircraft Dam			Inju		
			SUBSTANTIAL		Fatal			None
Type of Operation -P			Fire	Cre		0	0	1
Flight Conducted Under -1			NONE	Pas	s 0	0	0	2
Accident Occurred During -L	.ANDING							
-Aircraft Information								
Make/Model - PIPER PA-28-	180	Eng Make/Mo	odel - LYCOMIN	G 0-360-A4A	ELT	Installed/	Activated	- YES/YE
Landing Gear - TRICYCLE-FIX	(ED	Number Eng	ines - 1		S	tall Warni	ng System	- YES
Max Gross Wt - 2450		Engine Type	∍ - RECIPRO	CATING-CARBL	RETOR		-	
No. of Seats - 4		Rated Power	- 180	HP				
-Environment/Operations Informa	ition							
Weather Data		Itinerary			Airport	Proximity		
Wx Briefing - UNK/NR		Last Departu	ure Point		ON AIR			
Method - UNK/NR		FARMINGDAL						
Completeness - UNK/NR		Destination	,		Airport D	ata		
Basic Weather - VMC		RUTLAND, V	Г		7.1. po. c b			
Wind Dir/Speed- 220/015 KT	۰ς	KOTEAND,	•		Punway	Ident	- 19	
Visibility - 20.0 S		ATC/Airspace				Lth/Wid		75
Lowest Sky/Clouds - CL			ght Plan - VFR		,	Surface		
Lowest Ceiling -	LAK		arance - NON			Status		
Obstructions to Vision- NO	ME		ndg - TRA			Status	TCL COVI	INLU
Precipitation - NO		Type Apcil/Li	idg ika	TITO PATILAN	!			
Condition of Light - DA							•	
-Personnel Information Pilot-In-Command	Α	ge - 35	Medi	cal Certific	ate - VALID	MEDICAL~W	AIVERS/LIM	ИΙΤ
<pre>Certificate(s)/Rating(s)</pre>	R	ge - 35 iennial Flight Re	eview		ght Time (H		,	
PRIVATE		Current	- YES	Total -		Last 2	4 Hrs -	3
SE LAND		Months Since	- 1	Make/Model-		Last 3		24
		Months Since Aircraft Type	- PA-28	Instrument-	82	Last 9	O Days-	73
		All Grant Type		Multi-Eng -		Eddt 5	Juyu	, 0
				Marti Eng	2			
Instrument Rating(s) -	NONE							
-Narrative ING LANDING AT MT. SNOW, VERMON GO AROUND THE AIRPLANE STRUCK LARED AN EMERGENCY AND WAS VECT T WING.	A SNOW BANK A	ND SHEARED OFF TH	HE LEFT MAIN G	EAR. WHEN AI	RBORNE THE	PILOT	NG	

File No 5	33 1/14/89 TURNERS FALLS,MA	A/C Reg. No. N1057X	Time (Lcl) - 1210 EST
Occurrence #1 Phase of Operation	LOSS OF CONTROL - ON GROUND LANDING - ROLL		
Finding(s) 1. TERRAIN CONDITI 2. DIRECTIONAL C	ONTROL - NOT MAINTAINED - PILOT IN COMMAI		
Occurrence #2 Phase of Operation	ON GROUND COLLISION WITH TERRAIN/WATER LANDING - ABORTED		
Finding(s) 3. TERRAIN CONDITI			
Occurrence #3 Phase of Operation			
Finding(s) 4. LANDING GEAR,MA	IN GEAR - SEPARATION		
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:
LOSS OF CONTROL DURING LANDING ROLL DUE TO ICE ON THE RUNWAY, AND COLLISION WITH A SNOW BANK OFF THE RUNWAY WHICH
SHEARED THE LEFT MAIN LANDING GEAR.

File No 429 2/04/89 HYA	NNIS,MA	A/C Reg. No	. N49PB	Т	ime (Lcl) -	1240 E	ST
Basic Information Type Operating Certificate-ON-DEMAND Name of Carrier -SPECTRUM A Type of Operation -NON SCHED, Flight Conducted Under -14 CFR 135 Accident Occurred During -STANDING	IRLINES DOMESTIC,PAX/CARGO	Aircraft Dama SUBSTANTIAL Fire NONE	ge Crew Pass	Fatal 0 0	Injur Serious O O	ries Minor O	None 1 9
Aircraft Information Make/Model - CESSNA 402B Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6300 No. of Seats - 10	Eng Make/Mod Number Engir Engine Type Rated Power	es - 2			Installed/Æ		
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 350/010 KTS Visibility - 10.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departur SAME AS ACC Destination NANTUCKET,N ATC/Airspace Type of Fligh Type of Clear Type Apch/Lnc	/INC A t Plan - COMP ance - NONE	ANY (VFR)	ON AIR Airport D BARNST Runway Runway Runway Runway	ata ABLE MUNI	UNK/NR	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,ATP SE LAND,ME LAND	Age - 49 Biennial Flight Rev Current - Months Since - Aircraft Type -	iew YES T 2 M C-402B I	otal - lake/Model - nstrument -	e - VALID t Time (H 9978 525 1400 6000	ours) Last 24 Last 30	Hrs -	UNK/NR UNK/NR
Instrument Rating(s) - AIRPLANE							
NINE MEMBERS OF A VARSITY BASKETBALL TEAM B WAS PLACED IN THE AFT BAGGAGE COMPARTMENT. FELL HARD TO THE RAMP. THE PLT RAISED THE T BEGAN THE TAKEOFF. AS THE ACFT WAS CLIMBING THE PASSENGERS TO MOVE FORWARD. AT THAT TIM SOUNDED. THE PASSENGERS MOVED AS FAR FORWAR EXAM OF THE ACFT REVEALED A STRINGER, REAR WERE DAMAGED. NO BALLAST WAS INSTALLED IN T BALANCE, USING THE ACTUAL WEIGHTS OF THE PA	AS THE PLT ENTERED THE AIL & ELECTED TO CONT THRU APRX 200 TO 400 E, THE NOSE OF THE ACF D A& FEASIBLE & STAYED BULKHEAD, ELEVATOR CON HE FORWARD BAGGAGE COM	CABIN & WAS THE FLT. AFTE FT AGL, THE F T WAS HIGHER THERE UNTIL TROL TUBE & T PARTMENT. A F	CLOSING THE DER REBOARDING, LT ANNOUNCED THAN NORMAL & AFTER THE ACFULATION	OOR, THE HE TAXIE THERE WAS THE STAL T WAS LAN R THE TAI OF THE AI	TAIL OF THE D TO THE RU A PROBLEM L WARNING H DED. A POST L NAVIGATIO RCRAFT'S WE	E ACFT JNWAY &	

File No. - 429 2/04/89 HYANNIS,MA A/C Reg. No. N49PB Time (Lcl) - 1240 EST

Occurrence #1

MISCELLANEOUS/OTHER

Phase of Operation STANDING

Finding(s)

- 1. PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. AIRCRAFT WEIGHT AND BALANCE IMPROPER PILOT IN COMMAND
- 3. FUSELAGE, BULKHEAD FAILURE, PARTIAL
- 4. FLT CONTROL SYST, ELEVATOR CONTROL CABLE/ROD FAILURE, PARTIAL

4. TEL CONTROL 3131, ELEVATOR CONTROL CADEL/ROD TATEORE, TANTAL

Occurrence #2 A

Occurrence #2 ALTITUDE DEVIATION, UNCONTROLLED

Phase of Operation TAKEOFF - INITIAL CLIMB

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING AND PREPARATION BY THE PILOT WHICH RESULTED IN IMPROPER WEIGHT AND BALANCE (AFT CG). THE AFT CG ALSO CONTRIBUTED TO THE UNCOMMANDED ALTITUDE DEVIATION AFTER TAKEOFF.

File No 436 4/10/89	o 436				Time (Lcl) - 1145 EDT				
-Basic Information	(
Type Operating Certificate-NONE ((GENERAL AVIATION)	Aircraft Damage			Injur				
Turne of Organistics INCTRI	IOT FOMAL	SUBSTANTIAL	0	Fatal	Serious		None		
Type of Operation -INSTRU Flight Conducted Under -14 CFF		Fire	Crew	0	0	0	2		
Accident Occurred During -APPROA		NONE	Pass	0	0	0	Ο		
Accident occurred buring -APPROA	асп 								
-Aircraft Information									
Make/Model - CESSNA 152	Eng Make/Mo	del - LYCOMING 0-	235-N2C	ELT :	[nstalled/A	ctivated	- YES/NO		
Landing Gear - TRICYCLE-FIXED	Number Engi	nes - 1		Si	tall Warnir	g System	- YES		
Max Gross Wt - 1670		- RECIPROCATI	NG-CARBURE	TOR					
No. of Seats - 2	Rated Power	- 110 HP							
-Environment/Operations Information-	·								
Weather Data	Itinerary			Airport A	Proximity				
Wx Briefing - UNK/NR	Last Departu	re Point		ON AIRF					
Method - UNK/NR	SAME AS AC			O.1 /12111					
Completeness - UNK/NR	Destination	5, 2.15		Airport Da	ata				
Basic Weather - VMC	LOCAL		•	BEDFOR					
Wind Dir/Speed- UNK/NR					Ident -	29			
Visibility - 20.0 SM	ATC/Airspace				Lth/Wid -		150		
	T SCATTERED Type of Flig	ht Plan - NONE			Surface -				
Lowest Ceiling -		rance - NONE			Status -				
Obstructions to Vision- NONE		dg - TRAFFIC	PATTERN	((d) (nay	514145				
Precipitation - NONE	1,90 ,,001,,21	49							
Condition of Light - DAYLIGH	1 T								
Pilot-In-Command	Age - 22	Medical	Certificat	e - VALID	MEDICAL-NO	WAIVERS/	LIMIT		
<pre>Certificate(s)/Rating(s)</pre>	Age – 22 Biennial Flight Re	view		t Time (Ho		•			
COMMERCIAL, CFI	Current	- YES Tota	1 -	559	Last 24	Hrs -	0		
SE LAND, ME LAND	Months Since	- 5 Make	/Model-	94	Last 30	Days- UN	IK/NR		
·	Aircraft Type	- UNK/NR Inst	rument-	68	Last 30 Last 90	Days-	265		
•	,	Mult	i-Eng -	60		•			
Instrument Rating(s) - AIRPL	ANE								
-Narrative STUDENT PLT & INSTRUCTOR (CFI) ELEC	CTED TO FLY IN A CLOSED TR	AFFIC PATTERN. TH	EY MADE A	LOW APCH (ON THE 1ST	PATTERN			
H 30 DEG OF FLAPS. AS THE ACFT WAS (
UND. HOWEVER, INSTEAD OF ADDING POWE									
ACFT CONTACTED THE RWY WITH THE RGT									
		OTTE WERE DAMAGER	THE CET I	HAD A TOTA	I FIT TIME	OF EEO			
O THE GRASS. DRG THE OCCURRENCE, THE	E RGT MAIN STRUT & RGT WIN	GIIP WERE DAMAGED	. THE CPI	HAD A TOTA	AL ILI IIML	OF 559			
D THE GRASS. DRG THE OCCURRENCE, THE	E RGT MAIN STRUT & RGT WIN	GTIP WERE DAMAGED	. THE OFT	HAD A TOTA		UF 559			

File No. - 436 4/10/89 BEDFORD, MA A/C Reg. No. N94822 Time (Lcl) - 1145 EDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation GO-AROUND (VFR) 1. THROTTLE/POWER CONTROL - IMPROPER USE OF - DUAL STUDENT 2. FLIGHT CONTROLS - IMPROPER USE OF - DUAL STUDENT 3. STALL - INADVERTENT - DUAL STUDENT LACK OF TOTAL EXPERIENCE - DUAL STUDENT 5. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND(CFI) Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation GO-AROUND (VFR) ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER USE OF THROTTLE AND FLIGHT CONTROLS BY THE STUDENT AND INADEQUATE SUPERVISION BY THE CFI WHICH RESULTED IN A STALL. THE STUDENT'S LACK OF TOTAL FLYING EXPERIENCE AND THE INSTRUCTOR'S LACK OF EXPERIENCE IN THE TYPE OF OPERATION (INSTRUCTING) WERE CONTRIBUTING FACTORS.

File No 544 6/03/89 UXE	RIDGE, MA	A/C Reg. No.	N9965D	Т	ime (Lcl) -	· 1350 EDT	
Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Damage			Injur	ries	
,	,	DESTROYED		Fatal			None
Type of Operation -PERSONAL		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91		ON GROUND	Pass	0	0	1	Ō
Accident Occurred During -DESCENT							
Aircraft Information							
Make/Model - PIPER PA22-150		del - LYCOMING O	-320		Installed/A		,
Landing Gear - TAILWHEEL-ALL FIXED	Number Engi				tall Warnir	ng System	- NO
Max Gross Wt - 2000		- RECIPROCAT	ING-CARBURE	TOR			
No. of Seats - 4	Rated Power	- 150 HP					
Environment/Operations Information	_						
Weather Data	Itinerary				Proximity		
Wx Briefing - UNK/NR	Last Departu			OFF AI	RPORT/STRIF	•	
Method - UNK/NR	UXBRIDGE, MA	4 .					
Completeness - UNK/NR	Destination			Airport D	ata		
Basic Weather - VMC	LINCOLN,RI						
Wind Dir/Speed- 290/005 KTS					Ident -		
Visibility - 10.0 SM	ATC/Airspace			Runway	Lth/Wid -	1200/	80
Lowest Sky/Clouds - UNK/NR	Type of Fligh	nt Plan - NONE		Runway	Surface -	GRASS/TU	RF
Lowest Ceiling -	Type of Clear	rance - NONE		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lnc	dg - NONE		•			
Precipitation - NONE	, , , , , , , , , , , , , , , , , , ,	9					
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 51	Medical	Certificat	e - VALID	MEDICAL-WA	IVERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Re	view		t Time (H	ours)		
PRIVATE	Current	- YES Tot	al -	580	Last 24	Hrs - UN	K/NR
SE LAND	Current Months Since Aircraft Type	- 23 Mak	al - Ö e/Model- trument-	430	Last 30	Days- UN	K/NR
	Aircraft Type	- PA-22 Ins	trument-	0	Last 90	Days- UN	K/NR
	,,					•	•
Instrument Rating(s) - NONE				•			
Narrative						_	
NG A LEFT TURN AFTER TAKEOFF FROM A PRI							
SUFFICIENT ALTITUDE TO RECOVER. THE AI						1E	
T AND HIS PASSENGER RECEIVED MINOR INJU							

File No. - 544 6/03/89 UXBRIDGE, MA A/C Reg. No. N9965D Time (Lcl) - 1350 EDT LOSS OF CONTROL - IN FLIGHT Phase of Operation TAKEOFF Finding(s) 1. WEATHER CONDITION - WINDSHEAR COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 3. MANEUVER - IMPROPER - PILOT IN COMMAND 4. GO-AROUND - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 5. WEATHER CONDITION - 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: IMPROPER MANEUVERING SHORTLY AFTER TAKEOFF FROM A PRIVATE GRASS STRIP OF MARGINAL LENGTH FOR THE CALIBER OF ACFT BEING OPERATED. A WIND CHANGE ADDED TO THE ALREADY EXACTING CONDITIONS.

Basic Information Type Operating Certificate-NONE (GE	NEDAL AVIATION)	Aircraft Damage	Injuries				
Type operating certificate None (de	NERAL AVIATION)	DESTROYED		Fatal	_	Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 9	1	NONE	Pass	0	0	0	2
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-28-161		del - LYCOMING 0-32	0-D3				
Landing Gear - TRICYCLE-FIXED	Number Engir				tall Warnin	g System	- YES
Max Gross Wt - 2150		- RECIPROCATING - 160 HP	-CARBURE	TUR			
No. of Seats - 4	Rated Power	- 160 MP					
-Environment/Operations Information	-						
Weather Data Itinerary				Airport 6			
Wx Briefing - UNK/NR		Last Departure Point			RPORT/STRIP		
Method - UNK/NR	BEVERLY, MA						
Completeness - UNK/NR Basic Weather - VMC	Destination LOCAL			Airport Da			
Wind Dir/Speed- 008 KTS	LUCAL				r Ident -	27	
Visibility - 5.0 SM	ATC/Airspace				Lth/Wid -		150
Lowest Sky/Clouds - UNK/NR		nt Plan - NONE			Surface -		.00
Lowest Ceiling - UNK/NR		rance - NONE				DRY	
Obstructions to Vision- NONE	Type Apch/Lnd	dg - TRAFFIC P	ATTERN	_			
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							_
Pilot-In-Command	Age - 51				MEDICAL-WA	IVERS/LIM	ΙT
Certificate(s)/Rating(s)	Biennial Flight Rev Current			t Time (Ho	ours) Last 24	Hoo - HNI	IZ /NID
PRIVATE SE LAND	Months Since	- YES TOTAL - 5 Make/M	- lode1 -	118			3
SE LAND	Aircraft Type	- 5 Make/M - PA-28 Instru	ment-	Ō	Last 30 Last 90	Days-	4
	Arrestare Type	- 110010		Ŭ	2401 00	Juyo	,
Instrument Rating(s) - NONE							
·Narrative							
PILOT ATTEMPTED TO MAKE A GO-AROUND O	N RWY 27 AFTER LANDING L	ONG. THE PILOT SAI	D HE WAS	AFRAID TO	USE THE		
ES AND ADDED POWER BUT RAN OFF THE RU							

File No. - 539 7/09/89 BEVERLY, MA A/C Reg. No. N2752M Time (Lcl) - 1404 EDT

Occurrence #1 OVERRUN
Phase of Operation LANDING - ABORTED

Finding(s)

1. WEATHER CONDITION - GUSTS
2. GO-AROUND - DELAYED - PILOT IN COMMAND
3. DISTANCE - INADEQUATE
Occurrence #2 ON GROUND COLLISION WITH OBJECT
Phase of Operation LANDING - ABORTED

Finding(s)

4. OBJECT - TREE(S)

-----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: COLLISION WITH TREES DURING AN ABORTED LANDING AND ATTEMPTED GO-AROUND WITH INSUFFICIENT REMAINING RUNWAY.

File No 572 4/23/89	LANSING, MI A	/C Reg. No. N455RT	-	Time (Lc1) -	1230 CD	Γ
Basic Information Type Operating Certificate-NONE	(GENERAL AVIATION) Air	craft Damage		Injur	ies	
	SUI	BSTANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSON		e Cr	ew O	0	0	1
Flight Conducted Under -14 CF		NE Pa	ss O	0	0	1
Accident Occurred During -LANDII						
Aircraft Information						
Make/Model - WACO YMF		- JACOBS 755-B	ELT	Installed/A	ctivated	- UNK/NI
Landing Gear - TAILWHEEL-ALL FIX		- 1		Stall Warning	g System	- YES
Max Gross Wt - 2770		- RECIPROCATING-CARB	URETOR			
No. of Seats - 2	Rated Power	- 275 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF B			ON AIR	RPORT		
Method - N/A	EAST LANSING,M	I				
Completeness - N/A	Destination		Airport [Data		
Basic Weather - VMC	LANSING,MI			NG-CAPITAL C	ΙΤΥ	
Wind Dir/Speed- 070/005 KTS					1OR	
Visibility - 20.0 SM	ATC/Airspace			/ Lth/Wid -	•	150
Lowest Sky/Clouds - 25000 i	FT SCATTERED Type of Flight P	lan - NONE		/ Surface -		
Lowest Ceiling - NONE	Type of Clearance	e - VFR	Runway	/ Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP				
Precipitation - NONE						
Condition of Light - DAYLIGH	HT 					
Personnel Information						
Pilot-In-Command	Age - 50				IVERS/LI	MIT
<pre>Centificate(s)/Rating(s)</pre>	Biennial Flight Review		ight Time (I	•		_
PRIVATE	Current - YE	S Total - Make/Model-		Last 24		4
SE LAND				Last 30		15
	Aircraft Type - PA			Last 90	Days-	61
		Multi-Eng -	343			

File No. - 572 4/23/89 LANSING.MI A/C Req. No. N455RT Time (Lc1) - 1230 CDT

Occurrence #1

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ROLL

Finding(s)

1. AIRCRAFT HANDLING - IMPROPER - PILOT IN COMMAND

- 2. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND
- 4. SUPERVISION INADEQUATE CHECK PILOT

Occurrence #2

NOSE OVER

Phase of Operation LANDING - ROLL

Finding(s)

5. TERRAIN CONDITION - GRASS

6. BRAKES(NORMAL) - EXCESSIVE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING ROLL, AND HIS EXCESSIVE BRAKE APPLICATION AS THE AIRCRAFT DEPARTED THE RUNWAY, WHICH RESULTED IN THE AIRCRAFT NOSING OVER. THE PILOT'S INEXPERIENCE IN TAILDRAGGER AIRCRAFT, AND THE INADEQUATE SUPERVISION ON THE PART OF THE CHECK PILOT WERE CONTRIBUTING FACTORS.

File No 573 4/25/89 DETRO	IT,MI 	A/C Reg. No.	N444EA	T 	ime (Lc1) -	1635 CD)T
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91	L AVIATION)	Aircraft Damag SUBSTANTIAL Fire NONE	e Crew Pass	Fatal O O	Injur Serious O O	ies Minor O O	None 1 1
Accident Occurred During -LANDING				•			
Make/Model - CESSNA 411 Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 6500 No. of Seats - 2	Eng Make/Mo Number Eng Engine Typo Rated Power	e - RECIP-FUE	L INJECTED		Installed/A tall Warnin		
Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departo DETROIT,M			Airport ON AIR	Proximity PORT		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- CALM	Destination DETROIT,M			Airport D DETROI Runway	T CITY	33	
Visibility - 10.0 SM Lowest Sky/Clouds - 20000 FT THIN Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	ATC/Airspace BKN Type of Flig Type of Clea Type Apch/Li	arance - NONE	STOP	Runway	Lth/Wid - Surface - Status -	ASPHALT	
-Personnel Information	Ago = 21	Madiaa	l Certificat	- VALTD	MEDICAL -NO	WATVEDS	·/: TMTT
Pilot-In-Command Certificate(s)/Rating(s)	Age - 21 Biennial Flight Re			ie - VALID nt Time (H		WAIVERS	O / LIMIT!
COMMERCIAL, CFI	Current		tal -			Hrs - U	•
SE LAND,ME LAND	Months Since Aircraft Type	- C-310R In	ke/Model- strument- lti-Eng -		Last 30 Last 90		25 83
Instrument Rating(s) - AIRPLANE							
	Y, THE PILOT REPOR THE GROUND. INVES ILED. TOTAL TIME OF	DNABLE SPEED", T TED THAT AS HE S TIGATION REVEALE N THIS PART COUL	HE PILOT ATT TARTED THE T D THAT A BOL D NOT BE DET	EMPTED TO URN HE HE .T, P/N NA ERMINED;	ARD A "LOUD S464P4-26, TOTAL TIME		

File No 5	73 4/25/89 	DETROIT,MI	A/C Reg. No. N444EA	Time (Lc1) - 1635 CDT	
Occurrence #1 Phase of Operation	GEAR COLLAPSED LANDING - ROLL				
Finding(s) 1. LANDING GEAR,MA	IN GEAR ATTACHMENT	- FAILURE,TOTAL			
Occurrence #2 Phase of Operation	ON GROUND COLLIS	SION WITH TERRAIN/WATER			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF A BOLT IN THE LEFT MAIN LANDING GEAR ASSEMBLY.

-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Aircra	ft Damage		Injuri	es	
	SUBST	ANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	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 - PORTERFIELD CP-55		ONTINENTAL A65-8				
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -	1 ECIPROCATING-CARBUR		tall Warning	g System	- NO
Max Gross Wt - 1200 No. of Seats - 2	Rated Power -		ETUR			
NO. 01 SeatS - 2	Rated Power -	00 NP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFII Method - N/A	NG Last Departure Poin ADRIAN.MI	ιτ	UFF AI	RPORT/STRIP		
Completeness - N/A	Destination		Airport D	2+2		
Basic Weather - VMC	TECUMSEH, MI		Amport b	αια		
Wind Dir/Speed- 360/012 KTS	reconsert, MI		Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -	,	
	ATTERED Type of Flight Plan	- NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg	- FULL STOP			SOFT	
Precipitation - NONE		FORCED LANDING				
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 46				VERS/LIM	IT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H			
PRIVATE	Current - YES	Total - Make/Model-	170	Last 24	Hrs -	2
SE LAND	Months Since - 20	Make/Model- Instrument-	8	Last 30	Days-	13 15
	Aircraft Type - PA-28	Instrument-	10	Last 90	Days-	15
Instrument Rating(s) - NONE						
-Narrative						
LE IN NORMAL CRUISE FLIGHT AT ABOUT 800						
UNABLE TO MAINTAIN ALTITUDE, AND SELECT						

File No. - 567 5/11/89 TECUMSEH, MI A/C Reg. No. N32340 Time (Lc1) - 0905 EDT Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. FLUID, FUEL - CONTAMINATION 2. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 3. TERRAIN CONDITION - OPEN FIELD 4. TERRAIN CONDITION - SOFT 5. UNSUITABLE TERRAIN - ENCOUNTERED - PILOT IN COMMAND Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 6. TERRAIN CONDITION - SOFT ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S INADEQUATE PREFLIGHT OPERATINS, WHICH FAILED TO DETECT THE PRESENCE OF WATER CONTAMINATION IN THE FUEL SYSTEM,

AND RESULTED IN THE SUBSTANTIAL LOSS OF POWER AND SUBSEQUENT FORCED LANDING. THE AIRCRAFT ENCOUNTERED SOFT, LOOSE SOIL DURING THE FORCED LANDING AND FLIPPED OVER.

File No 570 5/16/89 EUREK	A,MI A/C Re	g. No. N7531G	Т	ime (Lc1) -	1115 EDT	
Basic Information Type Operating Certificate-NONE (GENERAL				Injur	ies	
	SUBSTAN	TIAL	Fatal	Serious		
Type of Operation -INSTRUCTIONAL		Crev		0	0	2
Flight Conducted Under -14 CFR 91	NONE	Pass	. 0	0	0	0
Accident Occurred During -TAKEOFF						
Aircraft Information						
Make/Model - CESSNA 150 L	Eng Make/Model - CON	TINENTAL 0-200-A	ELT	Installed/A	ctivated	- YES/NO
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S	tall Warnin	g System	- YES
Max Gross Wt - 1600	Engine Type - REC	IPROCATING-CARBUR	ETOR			
No. of Seats - 2	Rated Power -	100 HP				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Départure Point		ON AIR	•		
Method - N/A	EUREKA, MI					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LANSING, MI		RANDOL			
Wind Dir/Speed- 330/006 KTS	- ,		Runway	Ident -	23	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -	1700/	100
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -	NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance -			Status -		_
Obstructions to Vision- NONE	Type Apch/Lndg -		Í			
Precipitation - NONE	,, , , ,					
Condition of Light - DAYLIGHT			-			
Personnel Information	·					
Pilot-In-Command	Age - 37	Medical Certifica	te - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	ht Time (H	ours)		
ATP, CFI	Current - YES	Total -				
SE LAND, ME LAND	Months Since - 15	Make/Model-	200	Last 30	Days- UN	K/NR
HELICOPTER	Current - YES Months Since - 15 Aircraft Type - J-3	Instrument-	40	Last 90	Days- UN	K/NR
				Rotorcr	aft -	50
Instrument Rating(s) - AIRPLANE,HE	ICOPTER					
Instrument Rating(s) - AIRPLANE,HEI	ICOPTER					
RING A PRE-CHECKRIDE REVIEW FLIGHT, THE STUING A PRE-CHECKRIDE REVIEW FLIGHT, THE STUING ALONG A	STARTED TO ROTATE WHEN THE /ISED BY THE CFI TO WAIT UNT AKEOFF, REDUCING POWER AND A	AIRCRAFT REACHED IL 60 MPH WAS ATT PPLYING BRAKES. T	55 MPH AND AINED BEFO HE CFI TOO	AN RE ROTATION K OVER THE		

File No. - 570 5/16/89 EUREKA,MI A/C Reg. No. N7531G Time (Lcl) - 1115 EDT Occurrence #1 OVERRUN Phase of Operation TAKEOFF - ABORTED Finding(s) 1. AIRCRAFT HANDLING - IMPROPER - DUAL STUDENT 2. ROTATION - PREMATURE - DUAL STUDENT 3. TERRAIN CONDITION - GRASS ABORTED TAKEOFF - PERFORMED - DUAL STUDENT 5. DISTANCE - INADEQUATE -6. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - ABORTED Finding(s) 7. TERRAIN CONDITION - DITCH Occurrence #3 NOSE OVER Phase of Operation TAKEOFF - ABORTED ----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:
STUDENT PILOT'S IMPROPER AIRCRAFT CONTROL DURING THE TAKEOFF ROLL, AND THE SUBSEQUENT ABORTED TAKEOFF WAS PERFORMED
WITH INSUFFICIENT RUNWAY REMAINING TO SUCCESSFULLY STOP THE AIRCRAFT BEFORE THE DEPARTURE END OF THE RUNWAY.

File No 568 6/01/89 FLUSHING	G,MI A/C Reg. No. N8535Q	Time (Lc1) - 1230 CDT
Basic Information Type Operating Certificate-NONE (GENERAL ATTYPE OF OPERATION -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	AVIATION) Aircraft Damage SUBSTANTIAL Fire Crew NONE Pass	Injuries Fatal Serious Minor None O O O 2 O O O O
Aircraft Information Make/Model - CESSNA 206 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3600 No. of Seats - 6	Eng Make/Model - CONTINENTAL IO-520-F9 Number Engines - 1 Engine Type - RECIP-FUEL INJECTED Rated Power - 285 HP	ELT Installed/Activated - YES/NO Stall Warning System - YES
Environment/Operations Information Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 220/011 KTS Visibility - 10.0 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 2600 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	PANTIAC,MI ATC/Airspace Type of Flight Plan - IFR	Airport Proximity ON AIRPORT Airport Data DALTON Runway Ident - 18 Runway Lth/Wid - 2515/ 150 Runway Surface - ASPHALT Runway Status - WET
· · · · · · · · · · · · · · · · · · ·		e - VALID MEDICAL-NO WAIVERS/LIMIT t Time (Hours) 231 Last 24 Hrs - UNK/NR 111 Last 30 Days- 14 14 Last 90 Days- 41
Instrument Rating(s) - NONE		
Narrative DURING THE TAKEOFF ROLL ON AN INSTRUMENT INSTRUCE RUNWAY, THE PRIVATE PILOT JUDGED THAT THE AIRCRATAKEOFF. THE PILOT APPLIED BRAKES BUT WAS UNABLE RUNWAY AND COLLIDED WITH TREES. BOTH THE PRIVATE RAINING IN THE AREA PRIOR TO THE FLIGHT, AND THE THAT THE WATER "DAMPERED THE BRAKING ACTION CONS	AFT WAS NOT ACCELERATING SATISFACTORILY AND FETO STOP THE AIRCRAFT BEFORE IT RAN OFF THE PILOT AND THE INSTRUMENT INSTRUCTOR REPORTE RUNWAY WAS WET, WITH STANDING WATER IN SPO	ELECTED TO ABORT THE DEPARTURE END OF THE ED THAT IT HAD BEEN

File No. - 568 6/01/89 FLUSHING, MI A/C Reg. No. N8535Q Time (Lcl) - 1230 CDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation TAKEOFF - ABORTED Finding(s) 1. TERRAIN CONDITION - RUNWAY 2. ABORTED TAKEOFF - DELAYED - PILOT IN COMMAND 3. TERRAIN CONDITION - WET 4. AIRCRAFT CONTROL - INADEQUATE - PILOT IN COMMAND 5. PLANNING-DECISION - INADEQUATE - PILOT IN COMMAND Occurrence #2 OVERRUN Phase of Operation TAKEOFF - ABORTED Finding(s) 6. TERRAIN CONDITION - GRASS Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation TAKEOFF - ABORTED 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:
PILOT'S INADEQUATE AIRCRAFT CONTROL DURING THE ABORTED TAKEOFF ATTEMPT, AND THE AIRCRAFT'S RESULTANT COLLISION WITH
TREES. THE WET RUNWAY WAS A FACTOR IN THE LACK OF NORMAL BRAKING ACTION.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Airc	raft Damage		Injuries				
		STANTIAL	Fatal	Serious		None		
Type of Operation -PERSONAL	Fire			0		1		
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NON	E Pa	ss 0	0	0	3		
·Aircraft Information								
Make/Model - STINSON 108-2		FRANKLIN 6A4-165-B						
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2230		1 RECIPROCATING-CARB		tall Warnir	ng System	- NO		
No. of Seats - 4	3 7.	165 HP						
Environment/Operations Information	T.A. Constant		A	Danish				
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Po	int	Airport ON AIR	Proximity				
Method - N/A	SAME AS ACC/INC		ON AIR	SIRIF				
Completeness - N/A	Destination		Airport D	ata				
Basic Weather - VMC	LOCAL		•					
Wind Dir/Speed- CALM	/				- UNK/NR			
Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR	ATC/Airspace Type of Flight Pl	on - NONE		Lth/Wid · Surface ·				
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Flight Pi				- GRASS/IC - DRY	JKF		
Obstructions to Vision- NONE	Type Apch/Lndg		Kariway	5 14 145	BICT			
Precipitation - NONE	. , , , , , , , , , , , , , , , , , , ,							
Condition of Light - DUSK								
-Personnel Information Pilot-In-Command	Age - 34	Medical Certifi	cate - VALID	MEDICAL-N	n WAIVERS/	/I TMTT		
Certificate(s)/Rating(s)	Riennial Flight Review	F1	ight Time (F	lours)	•			
PRIVATE	Current - YES Months Since - 5 Aircraft Type - UNK	Total -	113	Last 2	4 Hrs - UN	NK/NR		
SE LAND	Months Since - 5	Make/Model-	34	Last 30	Days- UN	NK/NR		
	Aircraft Type - UNK	/NR Instrument-	3	Last 90	O Days- UN	NK/NR		
Instrument Rating(s) - NONE								
Nonnotivo								
-Narrative ING THE GO-AROUND ATTEMPT FOLLOWING A BALK	ED LANDING THE AIRDLANE	EATLED TO CLEAP THE	FMRANKMENT	LOCATED ON				
DEPARTURE END OF THE 2,100 FOOT SOD RUNWA								

A/C Reg. No. N151C Time (Lc1) - 2150 EDT File No. - 582 6/10/89 CEDAR, MI

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL

Finding(s)

- 1. ABORTED LANDING ATTEMPTED PILOT IN COMMAND
- 2. OVER CONFIDENCE IN AIRCRAFT'S ABILITY PILOT IN COMMAND
- 3. TERRAIN CONDITION DIRT BANK
- 4. CLEARANCE INADEQUATE PILOT IN COMMAND
- 5. LIGHT CONDITION DUSK

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT IN COMMAND ATTEMPTING TO LAND WITH TOO HIGH AN AISPEED AND WITH INSUFFICIENT RUNWAY REMAINING TO ALLOW EITHER A GO AROUND OR THE ABILITY TO BRING THE AIRPLANE TO A STOP IN THE SPACE REMAINING.

File No 543 2/22/89 PEMBE	ERTON, MN	A/C Reg.	No. N6010G	Т	ime (Lc1) -	1050 CS	Г
Basic Information Type Operating Certificate-NONE (GENERA	AL AVIATION)	Aircraft D	amage		Injur	ies	
Type operating our tri route Hone (delick)	avialion,	SUBSTANTI	_	Fatal	•	Minor	None
Type of Operation -PERSONAL		Fire	Crew		1	0	0
Flight Conducted Under -14 CFR 91		NONE	Pass		0	Ö	Ō
Accident Occurred During -DESCENT				·	-	-	_
Aircraft Information							
Make/Model - CESSNA 150K	Eng Make/	Model - CONTI	NENTAL 0-200-A	ELT	Installed/Ad	ctivated	- NO -N/A
Landing Gear - TRICYCLE-FIXED		gines - 1			tall Warning		
Max Gross Wt - 1600	Engine Ty		ROCATING-CARBUR			, , , , , , , , , , , , , , , , , , , ,	
No. of Seats - 2	Rated Pow	•					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		ture Point		•	RPORT/STRIP		
Method - N/A	SAME AS						
Completeness - N/A	Destination	•		Airport D	ata		
Basic Weather - VMC	LOCAL						
Wind Dir/Speed- 320/018 KTS	2007/2			Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		
Lowest Sky/Clouds - CLEAR		ight Plan - N	IONE		Surface -		
Lowest Ceiling - NONE		earance - N			Status -		
Obstructions to Vision- NONE	Type Apch/		IONE	Kuriway	status	IN/ A	
Precipitation - NONE	Type Apcily	Lindy - N	IONE				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command			dical Certifica				
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Flig	ht Time (H			
PRIVATE	Current	- UNK/NR	Total -		Last 24	Hrs -	1
SE LAND	Months Since	- UNK/NR	Make/Model-	280	Last 30	Days-	15
	Aircraft Typ	e - UNK/NR	Instrument-	0	Last 90	Days- UN	NK/NR
Instrument Rating(s) - NONE							
Narrative				ET 055 1:5			
PILOT ATTEMPTED TO TAKE OFF ON A GRAVEL ROAD							
TO GAIN ALTITUDE AND COLLIDED WITH TREE IN HI						-	
SUBSTANTIALLY DAMAGED. THE PRIVATE PILOT WAS							
HAD NO CURRENT MEDICAL CERTIFICATE AND THE A					N. THE PILO	l	
STATED THAT HE DID NOT EXPERIENCE ANY MECHAN	ICAL PROBLEMS WITH	THE AIRCRAFT	PRIOR TO THE A	CCIDENT.			
	•						

File No. - 543 2/22/89 PEMBERTON, MN A/C Reg. No. N6010G Time (Lcl) - 1050 CST Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation TAKEOFF - INITIAL CLIMB Finding(s) 1. OBJECT - TREE(S) 2. JUDGEMENT - POOR - PILOT IN COMMAND 3. WEATHER CONDITION - TAILWIND 4. WIND INFORMATION - DISREGARDED - PILOT IN COMMAND 5. DISTANCE - INADEQUATE - PILOT IN COMMAND 6. UNSUITABLE TERRAIN - SELECTED - PILOT IN COMMAND 7. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 8. TERRAIN CONDITION - SNOW COVERED ----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:
POOR JUDGEMENT ON THE PART OF THE PILOT IN THAT HE ATTEMPTED A DOWN WIND TAKE OFF WITHOUT ADEQUATE DISTANCE TO CLEAR
OBSTACLES IN HIS FLIGHT PATH.

Basic Information Type Operating Certificate-NONE (GENERAL			9 Time (Lcl) - 1315 CDT					
				Injuries Fatal Serious Minor				
Type of Operation -INSTRUCTIONAL		Crew	0	0	0	None 2		
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	0		
Accident Occurred During -LANDING	NONE	F 833	O	O	Ü	O		
vircraft Information								
Make/Model - PIPER PA-38	Eng Make/Model - LYCOM	1ING 0-235-L2A		Installed/A				
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		S	tall Warnir	ng System	- YES		
Max Gross Wt - 1670	Engine Type - RECIF	ROCATING-CARBURE	TOR					
No. of Seats - 2	Rated Power - 11	18 HP						
Invironment/Operations Information								
Weather Data	Itinerary			Proximity				
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Point		ON AIR	PORT				
Method - N/A	SAME AS ACC/INC							
Completeness - N/A	Destination		Airport D	ata				
Basic Weather - VMC	LOCAL		BUFFAL	0				
Wind Dir/Speed- 340/013 KTS			Runway	Ident -	35			
Visibility - 15.0 SM	ATC/Airspace ~		Runway	Lth/Wid -	2600/	60		
Lowest Sky/Clouds - CLEAR	Type of Flight Plan - N	IONE	Runway	Surface -	ASPHALT			
Lowest Ceiling - NONE	Type of Clearance - N	IONE	Runway	Status -	DRY			
Obstructions to Vision- NONE	Type Apch/Lndg - S	SIMULATED FORCED	LANDING					
Precipitation - NONE								
Condition of Light - DAYLIGHT								
Personnel Information								
Pilot-In-Command	Age - 22 Me	edical Certificat	e - VALID	MEDICAL-WA	IVERS/LIM	IT		
<pre>Certificate(s)/Rating(s)</pre>	Age - 22 Me Biennial Flight Review		it Time (H	ours)				
COMMERCIAL, CFI	Current - YES	Total -	369	Last 24	Hrs -	3		
SE LAND, ME LAND	Months Since - 3	Make/Model-		Last 30		26		
	Aircraft Type - C-172RG		63	Last 90	Days-	64		
		Multi-Eng -	12	Rotorcr	aft - UN	K/NR		

6/04/89 A/C Reg. No. N38329 File No. - 468 BUFFALO, MN Time (Lcl) - 1315 CDT Occurrence #1 UNDERSHOOT Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

- 1. EMERGENCY PROCEDURE SIMULATED PILOT IN COMMAND(CFI)
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. DISTANCE MISJUDGED DUAL STUDENT
- 4. ALTITUDE MISJUDGED DUAL STUDENT
- 5. SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- LACK OF TOTAL EXPERIENCE IN TYPE OPERATION PILOT IN COMMAND(CFI)

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

Finding(s)

- 7. TERRAIN CONDITION HIGH VEGETATION
- 8. TERRAIN CONDITION DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: MISJUDGEMENT OF ALTITUDE AND DISTANCE BY THE STUDENT AND INADEQUATE SUPERVISION OF FLIGHT BY THE INSTRUCTOR (CFI). CONTRIBUTING FACTORS WERE: UNFAVORABLE WIND CONDITIONS, HIGH VEGETATION (GRASS), AND A DITCH.

Basic Information	NONE (770						
Type Operating Certificat	e-NUNE (JENERAL AVIA		rcraft Damage JBSTANTIAL	9	Fatal	Inju Serious	uries Minor	None
Type of Operation	-PERSONA	A L	- ·	re	Crew		0		1
Flight Conducted Under				ONE	Pass		Õ	Ŏ	Ö
Accident Occurred During									
Aircraft Information									
Make/Model - GLASER-DI	RKS DG-10	01	Eng Make/Model					Activated	
Landing Gear - SKID Max Gross Wt - 1000			Number Engines Engine Type			2	tali warn	ing System	- NO
No. of Seats - 1			Rated Power						
Environment/Operations Info	rmation-	- ~ - ~ - ~ - ~ - ~ - ~ - ~							
Weather Data			tinerary			Airport	Proximity		
Wx Briefing - UNK/NR			Last Departure F	Point		ON AIR	PORT		
Method - UNK/NR			STANTON, MN						
Completeness - UNK/NR			Destination			Airport Da			
Basic Weather - VMC			LOCAL			STANTO			
Wind Dir/Speed- 130/010			TO () :				Ident	- 18	
Visibility - 15.0			TC/Airspace	NA NONE				- 2582/	
Lowest Sky/Clouds - Lowest Ceiling -								- GRASS/TU - DRY	IKF
Obstructions to Vision-		BROKEN	Type Apch/Lndg		LANDING	Runway	status	- DRT	
Precipitation -			Type Apeny Endg	TORCEL	LANDING				
Condition of Light -		Г							
Personnel Information									
Pilot-In-Command		Age -			Certifica			NO WAIVERS/	LIMIT
Certificate(s)/Rating(s)		Bienn	ial Flight Review	V		nt Time (H			
PRIVATE SE LAND		C	Current - Y	S Tot	al -	225	Last 2	24 Hrs - UN	
GLIDER		V Λ	Months Since - 2 Aircraft Type - C	2 Mak	e/Model-	2	Last	30 Days-	3 6
GLIDER		A	Therait Type - C	-1/2 1/18	trument-	3	Last	ou Days-	0
Instrument Rating(s)	- NONE								
Nonnetivo									
Narrative	MAL LIET	OFF THE OF	THER BOUNCED ON	ICINO IT TO D	ITCE DADIOL	/ TO ABOUT	EO CECT	101 HE	
PILOT SAID THAT AFTER A NORI TED TO RELEASE FROM THE TOW									
ER CAME TO REST INVERTED WI	TH SUBST	ΔΙΝΙΙΔΙ ΙΣΔΙΝΙΔί-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Δ ΙΙΙΙΔΙ ΙΙΡ 3					

File No. - 461 6/11/89 STANTON,MN A/C Reg. No. N83GB Time (Lc1) - 1310 CDT

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

Finding(s)

1. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND
2. ABORTED TAKEOFF - INITIATED - PILOT IN COMMAND
3. GLIDER TOW RELEASE - PERFORMED - PILOT IN COMMAND
4. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
5. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND

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

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO MAINTAIN CONTROL OF THE GLIDER. CONTRIBUTING FACTORS WERE: IMPROPER USE OF FLIGHT CONTROLS BY THE PILOT AND HIS LACK OF TOTAL EXPERIENCE IN THE TYPE OF GLIDER.

----Probable Cause----

File No 457 6/21/89 BE	MIDJI,MN	A/C Reg	A/C Reg. No. N6513Y		Time (Lcl) - 1628 CDT		
Basic Information	IEDAL AVIATION)	Aimeness	Damaga		T		
Type Operating Certificate-NONE (GEN	ERAL AVIATION)	Aircraft	•	Fa+a1	Injur		None
Type of Operation -PERSONAL		SUBSTANT	Cre	Fatal w O	Serious O	Minor O	None 1
Flight Conducted Under -14 CFR 91		Fire	Cre Pas		0	0	0
		NONE	Pas	s o	O	O	O
Accident Occurred During -LANDING							
Aircraft Information							
Make/Model - PIPER PA-23-250			MING IO-540-C4B		Installed/		
Landing Gear - TRICYCLE-RETRACTABLE					Stall Warnir	ng System	- YES
Max Gross Wt - 5200	Engine Typ		P-FUEL INJECTED				
No. of Seats - 6	Rated Powe	er - 2	50 HP				
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEF	-	ture Point		ON AIR			
Method - N/A	SAME AS A						
Completeness - N/A	Destination	(00) 1.10		Airport D)ata		
Basic Weather - VMC	LOCAL			BEMID			
Wind Dir/Speed- 330/015 KTS	LOCAL					- 31	
Visibility - 5.0 SM	ATC/Airspace				/ Lth/Wid ·		150
Lowest Sky/Clouds - 800 FT S		ight Plan -	NONE		Surface		100
	VERCAST Type of Cle				/ Status -		
Obstructions to Vision- FOG	Type Apch/L		TRAFFIC PATTERN		, 514143	W L 1	
Precipitation - RAIN	Type Apeny I	inag	TRAITIO TATTERIO				
Condition of Light - DAYLIGHT	-						
-Personnel Information							
Pilot-In-Command	Age - 51		ledical Certific) WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight F			ght Time (F			
COMMERCIAL	Current	- YES	Total -		Last 24		1
SE LAND, ME LAND, SE SEA	Months Since Aircraft Type	- 14	Make/Model-		Last 30		14
	Aircraft Type	e - C-172	Instrument-		Last 90	Days-	62
			Multi-Eng -	125			
Instrument Rating(s) - AIRPLANE							
Name + fore							
-Narrative	O THE AIDDON'T TO ! AND		DADK CLOUDS WA	C NEVT TO T	FLIE DOWNWYN		
PILOT REPORTED THAT WHEN HE RETURNED T							
FOR RUNWAY 31. DURING THE FINAL APPROA							
PILOT ATTEMPTED A GO-AROUND, THEN DECI							
DUNTERED AND THE AIRCRAFT TOUCHED DOWN		S AKEA. SUBS	EQUENILY, THE A	IKCKAFI WAS	DAMAGED WE	TEIN	
CROSSED A DITCH AND CAME TO REST ON A P	ORFIC KOND.						

File No 4	57 6/21/89 	BEMIDJI, MN	A/C Reg. No. N6513Y	Time (Lcl) - 1628 CDT
Occurrence #1 Phase of Operation		TER WITH WEATHER		
Finding(s) 1. WEATHER CONDITI 2. WEATHER CONDITI 3. WEATHER CONDITI 4. WEATHER CONDITI 5. FLIGHT INTO KNO	DN - GUSTS DN - TURBULENCE(TH DN - UNFAVORABLE W	- * *		
Occurrence #2 Phase of Operation	LANDING			
Occurrence #3 Phase of Operation		ION WITH TERRAIN/WAT	ER	
Finding(s) 6. TERRAIN CONDITION				
Probable Cause				
			ne Probable Cause(s) of this acc	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE CONTINUED APPROACH AND LANDING BY THE PILOT IN KNOWN ADVERSE WEATHER. CONTRIBUTING FACTORS WERE THE WEATHER CONDITIONS AND THE DITCH.

Basic Information Type Operating Certificate-NONE (GENER	PAL AVIATION) Air	craft Damage		Injuri	6 5	
Type operating out threate none (dent		BSTANTIAL	Fatal		Minor	None
Type of Operation -PERSONAL	Fir	e Crew		0	0	1
Flight Conducted Under -14 CFR 91	NO	NE Pass	. 0	0	Ο	1
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 172		- CONTINENTAL 0-300-D		Installed/Ac		
Landing Gear - TRICYCLE-FIXED	Number Engines			tall Warning	System	- YES
Max Gross Wt - 2300	9 ,.	- RECIPROCATING-CARBUR	ETOR			•
No. of Seats - 4	Rated Power	- 145 HP				
Environment/Operations Information						
Weather Data	Itinerary	- • •		Proximity		
Wx Briefing - NO RECORD OF BRIEFIN Method - N/A	NG Last Departure P GRAND FORKS,ND		OFF AI	RPORT/STRIP		
Completeness - N/A	Destination		Ainmont D	2+2		
Basic Weather - VMC	ST CLOUD, MN		Airport D	ala		
Wind Dir/Speed- 310/008 KTS	31 02000, 1911		Runway	Ident -	N/A	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		
•	ATTERED Type of Flight P	lan - NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE	Type Apch/Lndg	 FORCED LANDING 	•			
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 19				WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H			
PRIVATE	Current - YE		204	Last 24	Hrs -	2
SE LAND	Months Since - 9 Aircraft Type - BE	Make/Model- -150 Instrument- L	17	Last 30	Days-	20
	Aircraft Type - BE					44
		Multi-Eng - L	INK/NR	KOTOPCPA	ITT - UN	K/NR
Instrument Rating(s) - NONE						
PLT RPRTD THAT DURING A X-COUNTRY FLT, 1	THE ENG BEGAN SHAKING & S	MOKING. HE MADE AN EMP	RGENCY LAN	DING IN A		
IVATED FIELD, BUT THE ACFT NOSED DOWN IN						
,		E QUART OF OIL, CHECKE				

File No. - 463 6/22/89 SAUK RAPIDS, MN A/C Reg. No. N3814S Time (Lcl) - 1810 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE Finding(s) 1. LUBRICATING SYSTEM, OIL FILLER CAP - NOT SECURED 2. MAINTENANCE, SERVICE OF AIRCRAFT - IMPROPER - PILOT IN COMMAND 3. FLUID, OIL - STARVATION Occurrence #2 FORCED LANDING
Phase of Operation DESCENT - EMERGENCY NOSE DOWN Occurrence #3 Phase of Operation LANDING - ROLL Finding(s) 4. TERRAIN CONDITION - SOFT 5. TERRAIN CONDITION - WET

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT TO PROPERLY SECURE THE OIL CAP WHEN HE SERVICED THE AIRCRAFT AND OIL STARVATION. CONTRIBUTING FACTORS WERE THE TERRAIN CONDITIONS.

----Probable Cause----

-Basic Information	· 				Time (Lcl) - 2030 CDT			
Type Operating Certificate-AGRICULTU	JRAL AIRCRAFT	Aircraft D SUBSTANTI	_	Fatal	Inj Serious	uries Minor	None	
Type of Operation -AERIAL AP	DI TOATTON	Fire		rew 0	2ei 10us	MILIOI.		
Flight Conducted Under -14 CFR 13		NONE	_	-	_	0	1	
Accident Occurred During -TAKEOFF	5 <i>1</i>	NUNE	۲	ass 0	0	O	0	
-Aircraft Information								
Make/Model - CESSNA 188B	Eng Mak	e/Model - CONTI	NENTAL IO-52	O-D ELT	Installed	/Activated	I - NO -N/A	
Landing Gear - TAILWHEEL-ALL FIXED	Number	Engines - 1			Stall Warn	ing System	- YES	
Max Gross Wt - 4200	Engine	Type - RECIP	-FUEL INJECT	ED				
No. of Seats - 1	Rated P	ower - 30	OO HP					
-Environment/Operations Information								
Weather Data	Itinerary			Airport	Proximity			
Wx Briefing - NO RECORD OF BRIEF	ING Last Dep	arture Point		OFF A	IRPORT/STR	IP		
Method - N/A	SAME A	S ACC/INC						
Completeness - N/A	Destinati	on		Airport	Data			
Basic Weather - VMC	LOCAL				TE STRIP			
Wind Dir/Speed- CALM					y Ident	- 36		
Visibility - 15.0 SM	ATC/Airspa	ice			y Lth/Wid		100	
	CATTERED Type of		IONE			- GRASS/T		
Lowest Ceiling - 8000 FT B		Clearance - N			y Status	- DRY	OKI	
Obstructions to Vision- NONE	Type Apo		IONE	Kanwa	y Status	DKT		
Precipitation - NONE	туре ярс	in/ Endg	IONL					
Condition of Light - DAYLIGHT								
-Personnel Information Pilot-In-Command	Age - 44	84 -	edical Certif	into MALT	D MEDICAL	NO WATVEDO	/	
Certificate(s)/Rating(s)	Biennial Fligh			light Time (NO WAIVERS	/ LIMII	
COMMERCIAL, CFI	Current	- YES	r Total			24 Hrs -	8	
SE LAND			Make/Model			24 нгs - 30 Davs-		
SE LAND	Months Sin	ype - 7GCBC	Instrument			30 Days- 90 Days-	100 180	
Instrument Rating(s) - AIRPLANE		ype /dobc	Tris trainerre	101	Last	JO Days	180	
-Narrative COMMERCIAL PILOT SAID HE HAD USED THIS								
HAD ALREADY DISPENSED ABOUT 14 LOADS. A								
RE WAS AN EXISTING WIND. SHORTLY AFTER								
DDAY BUILD CAUCHT THE TALL CDASS THEN T	HE ACE I SPUN AROUN	ID AND WAS DAMAG	ED. THE PLT	RFTIFAED 1HV	I IF THE G	RASS AT		
PRAY BOOM CAUGHT THE TALL GRASS, THEN T								
END OF THE STRIP HAD BEEN MOWED, THE A		HAVE HAPPENED.						

File No. - 456 6/23/89 GRYGLA,MN A/C Reg. No. N4724R Time (Lc1) - 2030 CDT

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

Finding(s)

1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND
2. TERRAIN CONDITION - HIGH VEGETATION

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE PREFLIGHT PLANNING AND PREPARATION BY THE PILOT. TALL GRASS (HIGH VEGETATION) AT THE END OF THE STRIP WAS A CONTRIBUTING FACTOR.

File No 513 7/09/89 CRY	STAL,MN A/C R	A/C Reg. No. N6938H Time (Lcl) - 1525 CD				Γ	
Basic Information Type Operating Certificate-NONE (GENE		t Damage	Injuries				
Tune of Openation DEDCOMAL	SUBSTA		Fatal w O	Serious O	Minor O	None	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Cre Pas		0	0	1	
Accident Occurred During -LANDING	NONE	ras	·s 0	U	O	'	
Aircraft Information							
Make/Mode1 - CESSNA 172	Eng Make/Model - LY		ELT	Installed/A	ctivated	- YES/YE	
Landing Gear - TRICYCLE-FIXED	Number Engines - 1			itall Warnir	ng System	- YES	
Max Gross Wt - 2300	Engine Type - RE		RETOR				
No. of Seats - 4	Rated Power -	150 HP					
Environment/Operations Information							
Weather Data	Itinerary		•	Proximity			
Wx Briefing - TV WX	Last Departure Point		ON AIR	PORT			
Method - IN PERSON	ST. CLOUD, MN						
Completeness - PARTIAL, LMTD BY PILE			Airport D				
Basic Weather - VMC	SAME AS ACC/INC		CRYSTA				
Wind Dir/Speed- 140/016 KTS	ATO / A :				19	25	
Visibility - 5.0 SM	ATC/Airspace	NONE		Lth/Wid -		75	
Lowest Sky/Clouds - 15000 FT SC				Surface -			
	Type of Clearance		Runway	Status -	DRY		
Obstructions to Vision- HAZE	Type Apch/Lndg	- FULL STUP					
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information		Madia J. Oanti Cia	- 1 - VAL TE	MEDICAL MA	TVEDC /L TA	4 T T	
Pilot-In-Command Certificate(s)/Rating(s)	Age - 37 Biennial Flight Review	Medical Certific	ght Time (F		ITAEK2\ FIL	41 1	
PRIVATE	Current - YES		188	Last 24	l Hre -	1	
SE LAND	Months Since - 4	Make/Model-	88	Last 30		1	
SE LAND	Aircraft Type - C-172	•	HNK /ND	1ast 30	Days Days-	8	
	Afficiant Type C 172	Multi-Eng -			raft - UN		
		Marti Eng	ONR/ NR	KO TOI CI	arc 01	WINT TWIN	
Instrument Rating(s) - NONE							
	D. THE ACFT SLID TO A STOP AE	BOUT TWO THIRDS DO	WN RUNWAY 1	3. THE LOCA			

File No. - 513 7/09/89 CRYSTAL, MN A/C Reg. No. N6938H Time (Lc1) - 1525 CDT

HARD LANDING Occurrence #1 Phase of Operation LANDING

Finding(s)

- 1. WEATHER CONDITION GUSTS
- 2. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 3. FLARE IMPROPER PILOT IN COMMAND
- 4. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND

NOSE GEAR COLLAPSED Occurrence #2

Phase of Operation LANDING

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AIRCRAFT CONTROL WAS NOT MAINTAINED BY THE PILOT IN COMMAND, DUE TO AN IMPROPER LANDING FLARE WHICH RESULTED IN SEVERAL BOUNCES. THE LANDING GEAR FAILED IN OVERLOAD DURING THE BOUNCED LANDING.

File No 562 7/23/89 DUL	JLUTH,MN A/C Reg. No. N97984			Ti 	Time (Lc1) - 1200 CDT				
-Basic Information	DAL AVIATION)	Ain-uast Damasa			T				
Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Damage SUBSTANTIAL		Fatal	Inju Serious		r None		
Type of Operation -PERSONAL		Fire	Crew		0		1		
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	0	1		
Accident Occurred During -LANDING									
-Aircraft Information									
Make/Model - CESSNA 172	· .	lel - LYCOMING 0-3				Activated			
Landing Gear - TRICYCLE-FIXED	Number Engir		0.0400000		all Warni	ng System	- YES		
Max Gross Wt - 2400 No. of Seats - 4		- RECIPROCATING - 160 HP	G-CARBURI	ETUR					
-Environment/Operations Information Weather Data	Itinerary			Airport P	rovimity				
Wx Briefing - FSS	Last Departur	e Point		ON AIRP	,				
Method - ACFT RADIO	ANOKA, MN	C 1 0		011 /12111	0				
Completeness - UNK/NR	Destination			Airport Da	ta				
Basic Weather - VMC	SAME AS ACC	:/INC		SKY HAR	BOR				
Wind Dir/Speed- 120/004 KTS				,		- 14			
Visibility ~ 10.0 SM	ATC/Airspace					- 3051/	75		
Lowest Sky/Clouds - CLEAR		nt Plan - NONE			Surface				
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of Clear	ance - NUNE Ig - FULL STOI	D	Runway	Status	- DRY			
Precipitation - NONE	Type Apcil/Linc	ig - FULL 3101	-						
Condition of Light - DAYLIGHT									
Pilot-In-Command	Age - 33	Medical Co	ertifica [.]	te - EXPIRE	D				
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Rev	riew		nt Time (Ho					
PRIVATE	Current -			119			•		
SE LAND	Months Since -	7 Make/i UNK/NR Instru	Model-	11	Last 3	O Days-	3		
	Aircraft Type -	UNK/NR Instru	ument-	3	Last 9	Days-	3		
Instrument Rating(s) - NONE									
-Narrative	DIT ATTEMPTED TO LAND	WITH VARIABLE CU	DEACE WIN	אות מב ב דר	10 KNOTS				
ER A PERSONAL CROSS COUNTRY FLIGHT, THE PLT LOST DIRECTIONAL CONTROL OF THE ACF									
IT! FOO! DIVECTIONAL CONTROL OF THE WOL	I WAD AFFIVED OIL THE L	CONTRAL, ON TO THE	24451 001	COLIC, ITILIN	.,5552				

кед. No. N97984 Time (Lc1) - 1200 CDT File No. - 562 7/23/89 A/C Reg. No. N97984 DULUTH, MN Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. WEATHER CONDITION - UNFAVORABLE WIND 2. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 3. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 4. GROUND LOOP/SWERVE 5. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL Occurrence #3 NOSE OVER Phase of Operation LANDING - ROLL Finding(s) 6. TERRAIN CONDITION - SOFT ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AIRCRAFT CONTROL WAS NOT MAINTAINED BY THE PILOT IN COMMAND DUE TO IMPROPER USE OF THE AIRCRAFT FLIGHT CONTROLS.

File No 470 6/03/89	BOLIVAR, MO A/C	Reg. No. N3952K Time (Lc1) - 1430 CD			T	
Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION) Aircra	ft Damage		Injur	ies	
		ANTIAL	Fatal		Minor	None
Type of Operation -PERSONA	L 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 - PIPER PA-28		YCOMING 0-320-E2A		Installed/A		
Landing Gear - TRICYCLE-FIXED				Stall Warnin	g System	- YES
Max Gross Wt - 2150		ECIPROCATING-CARBUR	ETOR			
No. of Seats - 4	Rated Power -	150 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRI		t	ON AIF	PORT		
Method - N/A	SAME AS ACC/INC					
Completeness - N/A	Destination		Airport [
Basic Weather - VMC	LOCAL		BOLIVA			
Wind Dir/Speed- 310/007 KTS	ATO /A :				19	055
Visibility - 15.0 SM Lowest Sky/Clouds - 25000 FT	ATC/Airspace	NONE		Lth/Wid -		
Lowest Ceiling - NONE	Type of Clearance			Surface - Status -		UKF
Obstructions to Vision- NONE	Type or Crearance Type Apch/Lndg	- NONE - NONE	Kunway	Status -	DKY	
Precipitation - NONE	Type Apch/ Lindy	- NONE				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 20	Medical Certifica	te - VALI	MEDICAL-NO	WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flig	nt Time (F			
PRIVATE	Biennial Flight Review Current - YES Months Since - 2	Total -		Last 24		NK/NR
SE LAND	Months Since - 2	Make/Model-		Last 30		11
	Aircraft Type - PA-28	Instrument-	5	Last 90	Days-	20
Instrument Rating(s) - NONE						
PILOT REPORTED THAT HE BEGAN A SOFT/	SHORT FIELD TAKEOFF. BUT THE AT	RCRAFT WOULD NOT AC	CELERATE F	UE TO TALI	GRASS	
FIELD CONDITIONS. HE ABORTED THE TAK						
					· -	
THE AIRCRAFT BEFORE HITTING TREES N	EAR THE END OF THE RUNWAY. BUT	WAS UNABLE.				

File No. - 470 6/03/89 A/C Reg. No. N3952K Time (Lc1) - 1430 CDT BOLIVAR, MO Occurrence #1 OVERRUN Phase of Operation TAKEOFF - ABORTED Finding(s) 1. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - HIGH VEGETATION 2. RUNWAY MAINTENANCE - INADEQUATE -3. PLANNING-DECISION - IMPROPER - PILOT IN COMMAND 4. ABORTED TAKEOFF - DELAYED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation TAKEOFF - ABORTED Finding(s) 5. OBJECT - TREE(S) ----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 TALL GRASS, INADEQUATE RUNWAY MAINTENANCE, AND TREES.

File No 471 6/06/89 CREVE	COEUR, MO A/C	Reg. No. N29309	Time (L	.cl) - 1730 CD	Т
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF			Fatal Seri	Injuries ous Minor O O O O	None 1 1
Aircraft Information Make/Model - WACO UPF-7 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2650 No. of Seats - 2	Number Engines -	RECIPROCATING-CARBUR	Stall W	led/Activated Jarning System	
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 190/007 KTS Visibility - 15.0 SM Lowest Sky/Clouds - 6000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi SAME AS ACC/INC Destination LOCAL ATC/Airspace TERED Type of Flight Pla Type of Clearance Type Apch/Lndg	n - NONE - NONE		: - 25 /id - 3020/ ace - GRASS/TI	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND HELICOPTER	Age - 44 Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - B36	Total -	ht Time (Hours) 1431 La 52 La 74 La	ast 24 Hrs - Ul	NK/NR 8 34
Instrument Rating(s) - AIRPLANENarrative THE PILOT REPORTED THAT SHORTLY AFTER TAKEOFF LOSING POWER. HE INITIATED A SHALLOW RIGHT TU LOST ALL POWER AND AN EMERGENCY LANDING WAS M. DAMAGED. NO PREIMPACT MECHANICAL MALFUNCTION POINT WERE 81 AND 50 DEGREES, RESPECTIVELY. A CARBURETOR ICING.	RN TO AVOID TREES AND TO ADE IN AN ADJACENT CORN F OR FAILURE WAS FOUND DURI	STAY OVER THE AIRPOR IELD WHERE THE AIRCR NG THE INVESTIGATION	T. HOWEVER, THE PAFT WAS SUBSTANT I. THE TEMPERATUR	ENGINE TIALLY RE & DEW	

F116 No 4	6/06/89 CREVE CUEUR, MU	A/C Reg. No. N29309	Time (LCT) - 1730 CDT
	LOSS OF ENGINE POWER(TOTAL) - NON-MEC TAKEOFF - INITIAL CLIMB	HANI CAL	
FUEL SYSTEM, CAR	ON - CARBURETOR ICING CONDITIONS BURETOR - ICE AT - IMPROPER USE OF - PILOT IN COMMAND		
Occurrence #2 Phase of Operation	FORCED LANDING MANEUVERING - TURN TO LANDING AREA (ER	MERGENCY)	
Finding(s) 4. TERRAIN CONDITI	ON - HIGH OBSTRUCTION(S)		
	IN FLIGHT COLLISION WITH TERRAIN/WATER	2	
Finding(s) 5. TERRAIN CONDITI	ON - CROP		
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 AND CARBURETOR ICE. CONTRIBUTING FACTORS WERE: CARBURETOR ICING CONDITIONS, HIGH OBSTRUCTIONS AND TERRAIN CONDITIONS (CORN CROP).

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft (Damage		Injo	uries	
		SUBSTANT		Fatal			None
Type of Operation -PERSONAL		Fire	Crew		0	-	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	0	0	1
Aircraft Information Make/Model - CESSNA 210	Ena Mako/N	lodol - CONT	INENTAL IO-470-E	ELT	Inctalled	/Activated	_ VEC/I
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng		INCINIAL TO 470 E			ing System	
Max Gross Wt - 2900	Engine Typ		P-FUEL INJECTED	J	carr warm	ing system	123
No. of Seats - 4	Rated Powe		60 HP				
Environment/Operations Information							
Veather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Depart	ure Point		ON AIR	PORT		
Method - N/A	OSAGE BEA	CH,MO					
Completeness - N/A	Destination			Airport D			
Basic Weather - VMC	KAISER, MC	1		LEE C			
Wind Dir/Speed- LIGHT AND VARIABLE	/				Ident	- 21	
Visibility - 7.0 SM	ATC/Airspace		IONE			- 6497/	
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	Type of Fin	ght Plan - I				- ASPHALT	
Lowest Ceiling - NONE Obstructions to Vision- NONE		arance - i .ndg - i		Runway	Status	- DRY	
Precipitation - NONE	Type Apcil/L	riug - i	OLL STOP				
Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 50	Me	edical Certifica	te - VALID	MEDICAL-	WAIVERS/LI	MIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight R	eview	Flig	ht Time (H	ours)		
COMMERCIAL	Current	- NO	Total -	811	Last 2	24 Hrs -	2
SE LAND	Months Since		Make/Model-	240	Last	30 Days-	2
	Aircraft Type	- UNK/NR			Last 9	90 Days-	2
			Multi-Eng -	350			
Instrument Rating(s) - NONE							
Narrative PILOT SAID THAT DURING FINAL APPROACH, AN	D NEADING STALL SO	בבט אב הביו	OD AN AUDIRIE UC	IDN HE TAIT	EDDDETED :	тт	
HE STALL WARNING HORN, AND CONTINUED HIS						1 1	
IL STALL WARRING HORN, AND CONTINUED HIS			HE LANDING GEAR				

File No. - 564 6/25/89 KAISER, MO A/C Reg. No. N9440T Time (Lc1) - 1955 CDT

Occurrence #1 GEAR NOT EXTENDED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WHEELS UP LANDING INADVERTENT PILOT IN COMMAND
- 2. CHECKLIST NOT USED PILOT IN COMMAND
- 3. GEAR EXTENSION NOT PERFORMED 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. A FACTOR IN THE ACCIDENT WAS THE PILOT'S FAILURE TO USE THE CHECKLIST.

File No 560 7/03/89 ST. 6	CHARLES,MO	A/C Reg. No.	N49554	Time (Lcl)	- 1515 CDT	
Type Operation Type Operating Certificate-NONE (GENER, Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	AL AVIATION)	Aircraft Damage SUBSTANTIAL Fire NONE	Fata Crew O Pass O	0	ries Minor O O	None 1 0
Accident Occurred During -LANDING						
Aircraft Information Make/Model - CESSNA 152 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Eng Make/M Number Eng Engine Typ Rated Powe	e - RECIPROCAT		LT Installed// Stall Warnin		
	Itinerary G Last Depart ST CHARLE Destination LOCAL ATC/Airspace TTERED Type of Fli RCAST Type Apch/L	S,MO ght Plan - NONE arance - NONE	ON Airpor ST. Runi Runi Runi Runi Runi	CHARLES way Ident way Lth/Wid way Surface	- 09 - 3500/ - ASPHALT - DRY	50
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 18 Biennial Flight R Current Months Since Aircraft Type	eview - YES Tot - 9 Mak - C-152 Ins	e/Model- 53	(Hours) Last 24 Last 30 Last 90	4 Hrs - Days-	0 0 0
Instrument Rating(s) - NONE						
Narrative THE PRIVATE PILOT SAID THAT HE DEPARTED RUNW, THE SURFACE WIND WAS ABOUT 10 TO 15 KNOTS AND BOUNCED HARD, BECAME AIRBORNE, DRIFTED TO THI MAKING A GO-AROUND, DUE TO PROXIMITY OF PARKI TO ENTERING A BORDERING CORNFIELD, BUT THE R LEFT WING ON THE TERRAIN. THE NOSE WHEEL ENCO	D ABOUT 70 TO 90 DE E RIGHT. THE PLT EL ED ACFT ON THE RAMP IGHT WING HIT THE C	GREES FROM THE LE ECTED TO CONTINUE . HE ATTEMPTED TO ORN FIELD CAUSING	FT OF RUNWAY HEAD: WITH THE LDG AS (BRAKE THE ACFT TO THE ACFT TO SPIN	ING. THE ACFT DPPOSED TO D A HALT PRIOF AND STRIKE TH		

File No. - 560 7/03/89 ST. CHARLES, MO A/C Reg. No. N49554 Time (Lcl) - 1515 CDT Occurrence #1 HARD LANDING Phase of Operation LANDING Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. FLARE - IMPROPER - PILOT IN COMMAND 3. RECOVERY FROM BOUNCED LANDING - NOT ATTAINED - PILOT IN COMMAND 4. COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND 6. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND 7. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Occurrence #3 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - ROLL 8. TERRAIN CONDITION - CROP 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:
AIRCRAFT CONTROL WAS NOT MAINTAINED BY THE PILOT IN COMMAND DUE TO IMPROPER USE OF THE FLIGHT CONTROLS IN FLARING
THE AIRCRAFT FOR LANDING AND COUNTERACTING THE EFFECTS OF THE CROSS-WIND ON THE DRIFTING AIRCRAFT.

File No 559 7/04/89 TUNA	S,MO A/C Re	g. No. N757EJ	Τi	me (Lc1) -	1300 CDT	
Basic Information Type Operating Certificate-NONE (GENER)	SUBSTAN	TIAL	Fatal		Minor	None
Type of Operation -BUSINESS Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass	0	0	1 O	0
Aircraft Information Make/Model - CESSNA 152	Eng Make/Model - LYC	OMING 0-235-L2C	ELT I	nstalled/Ac	ctivated	- YES/YES
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Engines - 1 Engine Type - REC Rated Power -	IPROCATING-CARBURE 110 HP		all Warning	g System	- NO
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary G Last Departure Point BUFFALO.MO		Airport F OFF AIR	Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC	Destination CAMDENTON,MO		Airport Da			
Wind Dir/Speed- 020/009 KTS Visibility - 4.000 SM Lowest Sky/Clouds - 4000 FT SCA Lowest Ceiling - NONE	Type of Clearance -	NONE	Runway Runway	Ident - Lth/Wid - Surface - Status -	GRASS/TU	RF
Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DAYLIGHT	Type Apch/Lndg -	FORCED LANDING			HIGH VEG	ETATION
Personnel Information Pilot-In-Command	Age - 45	Medical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		t Time (Ho	ours)		
COMMERCIAL SE LAND	Current - YES Months Since - 2 Aircraft Type - C-150	Total - Make/Model- Instrument- UN Multi-Eng -	515 221 K/NR 5	Last 24 Last 30 Last 90 Rotorcra	Hrs - Days- Days- aft - UN	3 10 16 IK/NR
Instrument Rating(s) - AIRPLANE						
THE COMMERCIAL PILOT SAID THAT ABOUT TEN MINU ATTEMPTED WHICH RESULTED IN SUBSTANTIAL DAMAG SHE HAD ABOUT 5.5 GALLONS OF FUEL REMAINING AIRPORT, THAT HAD FUEL FACILITIES, THAT WAS I REVEALED THE FUEL TANKS TO BE EMPTY OF USABLE	GE TO THE ACFT AND MINOR INJU IN THE TANKS PRIOR TO DEPARTU LOCATED ABOUT 25 MILES AWAY,	RIES TO THE PILOT. RE. SHE SAID SHE W	THE PILOT AS FLYING	ESTIMATED TO AN		

File No 5	59 7/04/89 	TUNAS,MO	A/C Reg. No. N757EJ	Time (Lcl) - 1300 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE PO	DWER(TOTAL) - NON-M	ECHANICAL	
	HAUSTION ING/PREPARATION - F N CALCULATIONS - IN			
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGEN	NCY		
Occurrence #3 Phase of Operation	ON GROUND COLLISI LANDING	ON WITH TERRAIN/WA	TER	
Finding(s) 4. TERRAIN CONDITI	ON - NONE SUITABLE			
Probable Cause				
	3		the Probable Cause(s) of this accid	lent was:

ENGINE FAILURE DUE TO FUEL EXHAUSTION BECAUSE OF IMPROPER FLIGHT PLANNING BY THE PILOT.

Type Operating Certificate-NONE (GENERAL AVIATION)	Aircraft Damag SUBSTANTIAL	е	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSON	141	Fire	Crew	7 a (a)	0	0	1
Flight Conducted Under -14 CFR		NONE	Pass	. 0	0	. 0	5
Accident Occurred During -LANDIN			. 455	Ü	Ŭ	v	· ·
Aircraft Information							
Make/Model - PIPER PA-32-300		e/Model - LYCOMING	IO-540-K165		Installed/A		
Landing Gear - TRICYCLE-FIXED		ingines - 1		S	tall Warnin	ıg System	- YES
Max Gross Wt - 3400	Engine T						
No. of Seats - 6	Rated Po	ower - 300 HP					
Environment/Operations Information-							
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BR		rture Point		ON AIR	PURI		
Method - N/A	OLATHE,			A			
Completeness - N/A Basic Weather - VMC	Destinatio			Airport D			
Wind Dir/Speed- 090/010 KTS	CAMDENT	UN, MU		MISTWO		٥٣	
Visibility - 20.0 SM	ATC/Airspac				Ident - Lth/Wid -	25	60
	T SCATTERED Type of F				Surface -		60
Lowest Ceiling - NONE		Clearance - IFR		,		DRY	
Obstructions to Vision- NONE	Type of C		CTOD	Runway	status -	DRI	
Precipitation - NONE	Type Apcil	i/ Lindy	3106				
Condition of Light - DAYLIGH	łT						
 Personnel Information							
Pilot-In-Command	Age - 29	Medica	1 Certificat	te - VALID	MEDICAL-WA	IVERS/LIN	ΛΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	: Review	Fligh	nt Time (H	ours)		
PRIVATE	Current	- YES To	tal -	558	Last 24	Hrs -	1
SE LAND	Months Sinc	e - 1 Mai	ke/Model-	448	Last 30	Days-	38
	Aircraft Ty		strument-	78	Last 90	Days-	97
		Mu	lti-Eng -	6			
Instrument Rating(s) - NONE							
Narrative	A DEDCOMAL COOCC COURT	.DV EL TOUT - THE 5-1	OT CATO T		ED TI:51		
E ATTEMPTING HIS SECOND LDG, AFTER		•			•		
ED OFF THE RUNWAY SUBSTANTIALLY DAM		= -					
WIND COMPONENT. HE SAID THAT HE NOR							
YARDS OF THE RUNWAY WAS UPHILL. THE	. PILUI SAID HE IMOUGHT	A BRAKE MALFUNCIII	UNED. BUT PO	121 ACCIDE	IN I		

File No. - 522 7/14/89 CAMDENTON, MO A/C Reg. No. N2892A Time (Lcl) - 1625 CDT HARD LANDING Occurrence #1 Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. WEATHER CONDITION - TAILWIND 2. IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND 3. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND 4. RECOVERY FROM BOUNCED LANDING - NOT PERFORMED - PILOT IN COMMAND 5. AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL 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: AIRCRAFT CONTROL WAS NOT MAINTAINED BY THE PILOT IN COMMAND.

Basic Information Type Operating Certificate-NONE (C	SENEDAL AVIATION)	Aircraft Damage			Injur	ios	
Type operating certificate-none (C	SENERAL AVIATION)	SUBSTANTIAL		Fatal	Serious		None
Type of Operation -INSTRUC	CTIONAL	Fire	Crew	0		0	1
Flight Conducted Under -14 CFR		NONE		Ō	Ō	Ō	0
Accident Occurred During -LANDING	à						
Aircraft Information					٠		
Make/Model - CESSNA 152		/Model - LYCOMING 0	-235-L2C				
Landing Gear - TRICYCLE-FIXED		ingines - 1			Stall Warnin	g System	- YES
Max Gross Wt - 1675		ype - RECIPROCATI	NG-CARBURET	JR			
No. of Seats - 2	Rated Po	wer - 110 HP					
Environment/Operations Information-							
Weather Data	Itinerary	ntuna Dadat	,		Proximity		
Wx Briefing - NO RECORD OF BRI		rture Point		ON AIR	RPURI		
Method - N/A	SAME AS Destinatio	•	A	irport [20+0		
Completeness - N/A Basic Weather - VMC	LOCAL	or i	А		BRANCH		
Wind Dir/Speed- 070/011 KTS	LUCAL				/ Ident -	36	
Visibility - 10.0 SM	ATC/Airspac	•			/ Lth/Wid -		100
		light Plan - NONE			/ Surface -		100
Lowest Ceiling - 15000 Fl					/ Status -		
Obstructions to Vision- NONE	Type Anch	/Lndg - TRAFFI	PATTERN	Manna.	, status	2	
Precipitation - NONE	Type Apol	, Ling	, I A I I E I I I				
Condition of Light - DAYLIGHT	Г						
Personnel Information Pilot-In-Command	Age - 21	Medical	Certificate	- VALI	MEDICAL-WA	IVERS/LIM	1I T
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Flight	Time (H	Hours)		
STUDENT	Current	- N/A Tota	al -	41	Last 24	Hrs - UN	IK/NR
	Months Sinc	e - N/A Make	e/Model-	37	Last 30	Days-	12
	Aircraft Ty	pe - N/A Ins	e/Model- trument- UNK, ti-Eng -	/NR	Last 90	Days-	19
		Mul-	ti-Eng -	0	Rotorcr	aft -	0
Instrument Rating(s) - NONE							
-Narrative LE LANDING WITH A CROSSWIND, THE STUD	SENT DIT LOST CONTDOL	OF THE ACET DURING	THE DOLL-OUT	SURSE	NIENTIV THE	ACET	
"F FWIADTIAC MILLI W OKODOMIND' LUE DIOT	/ER. NO PRE-ACDNT PART	OF THE WOLL DON'TING			YULINILI, IIIL		

File No. - 427 3/12/89 A/C Reg. No. N4948H OLIVE BRANCH, MS Time (Lcl) - 1100 CST Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. WEATHER CONDITION - CROSSWIND 2. DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 3. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND 4. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation LANDING Finding(s) 5. 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 National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL WHICH RESULTED IN AN INADVERTENT GROUND SWERVE. THE CROSSWIND AND
DITCH WERE CONTRIBUTING FACTORS.

File No 403 3/16/89 F	ASCAGOULA, MS	A/C Re	g. No. N80542	 	Time (Lc1) - 2330 CST		
Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft DESTROY		Fatal	Injum Serious	ries Minor	None
Type of Operation -PERSONAL		Fire		rew 1		0	0
Flight Conducted Under -14 CFR 9	9.1	NONE		ass 1	Ö	Ô	Ö
Accident Occurred During -APPROACH					-		
Aircraft Information							
Make/Model - CESSNA 172M	Eng Make	/Model - LYC	OMING 0-320-E20		Installed/		
Landing Gear - TRICYCLE-FIXED	Number E	ngines - 1		Ç	Stall Warnir	ng System	- YES
Max Gross Wt - 2300	Engine T	ype - REC	IPROCATING-CARE	BURETOR			
No. of Seats - 4	Rated Po	wer -	110 HP				
Environment/Operations Information	· -						
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIE	FING Last Depa	rture Point		OFF A	RPORT/STRIF)	
Method - N/A	NEW ORL	EANS,LA					
Completeness - N/A	Destination	า		Airport [ata (
Basic Weather - IMC	MOBILE,	4 L		JACKSO	N COUNTY		
Wind Dir/Speed- 090/002 KTS				Runway	/ Ident ·	- 31	
Visibility250 SM	ATC/Airspac	€		Runway	/ Lth/Wid ·	4500/	150
Lowest Sky/Clouds - UNK/NR	Type of F	light Plan -	NONE	Runway	/ Surface	- ASPHALT	
Lowest Ceiling - 200 FT	OBSCURED Type of C	learance -	NONE	Runway	/ Status ·	- N/A	
Obstructions to Vision- FOG	Type Apch	/Lndg -	UNK/NR				
Precipitation - NONE							
Condition of Light - NIGHT(DAR	rk)						
Personnel Information							
Pilot-In-Command	Age - 48		Medical Certif			\IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight			light Time (H			
PRIVATE	Current	- YES	Total	- 65 - 27	Last 24	1 Hrs - UN	K/NR
SE LAND	Months Since	e - 17	Make/Model	- 27	Last 30) Days- UN	K/NR
	Aircraft Ty	oe - C- 1 52	Instrument	- UNK/NR	Last 90	Days- UN	K/NR
			Multi-Eng	- UNK/NR	Rotorci	raft - UN	K/NR
Instrument Rating(s) - NONE							
Narrative							
ACFT WAS REPORTED MISSING WHEN IT DIE	NOT RETURN TO MORTI	E AFTER A TR	IP TO NEW ORLF	ANS ON 3/16/8	9. A SEARCH	H WAS	
TATED BY THE CIVIL AIR PATROL & THE A							
TAL IMPACT OCCURRED WITH TREES APRX 3							
PRX 2330 CST. AT THAT TIME, HE NOTED							
D DURING THE INVESTIGATION. THE NON-							

File No. - 403 3/16/89 PASCAGOULA, MS A/C Reg. No. N80542 Time (Lc1) - 2330 CST Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation UNKNOWN Finding(s) 1. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND 2. LIGHT CONDITION - DARK NIGHT 3. WEATHER CONDITION - LOW CEILING 4. WEATHER CONDITION - FOG 5. WEATHER CONDITION - OBSCURATION 6. FLIGHT TO ALTERNATE DESTINATION - PERFORMED -7. VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND 8. LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH OBJECT Phase of Operation APPROACH Finding(s) 9. OBJECT - TREE(S) 10. VISUAL/AURAL PERCEPTION - 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: CONTINUED FLIGHT BY THE PILOT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC). CONTRIBUTING FACTORS WERE: INADEQUATE PREFLIGHT PLANNING, WEATHER CONDITIONS, PILOT'S LACK OF INSTRUMENT FLIGHT TIME, LACK OF VISUAL CUES AT NIGHT, AND TREES AT THE CRASH SITE.

File No 496 5/03/89 BOZE	EMAN, MT	A/C Reg. No.	 N9858D	٠	ime (Lcl) -		
Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	RAL AVIATION)	Aircraft Damage DESTROYED Fire ON GROUND	Crew Pass	-	Injur Serious O O	ies Minor 1 O	None O O
-Aircraft Information Make/Model - PIPER PA-18-150 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1750 No. of Seats - 2	Number En	pe - RECIPROCAT		St	installed/A all Warnin		
Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 210/010 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Cl	,MT ACC/INC		Runway Runway Runway	PORT ata IN FIELD Ident - Lth/Wid - Surface -	9002/	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,SE SEA	Biennial Flight Current	Review - YES Tot - 1 Mak e - PA-18A Ins		ht Time (Ho 1200	MEDICAL-WA burs) Last 24 Last 30 Last 90 Rotorcr	Hrs -	6
Instrument Rating(s) - NONENarrative CORDING TO THE PLT, WHEN HE ARRIVED IN THE NAT RWY 30 (A 9002' ASPHALT RWY) WAS ACTIVE TURF RWY (RWY 3/21) WHICH WAS 3400' LONG. FT WING & THE ACFT VEERED OFF THE RIGHT SI FT CARTWHEELED. SHORTLY AFTER COMING TO RE	: & THAT THE WIND W. THE PLT STATED THA DE OF THE RWY. HE	AS FROM 210 DEG AT T DRG TOUCHED DOWN APPLIED POWER, BUT	10, GUSTI ON RWY 30 THE RIGHT	NG 15 KTS. , A GUST OF	THE ARPT A WIND LIFT	LSO HAD ED THE	

File No. - 496 5/03/89 BOZEMAN, MT A/C Reg. No. N9858D Time (Lcl) - 1607 MDT

Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. WRONG RUNWAY SELECTED PILOT IN COMMAND
- 3. WEATHER CONDITION CROSSWIND
- 4. WEATHER CONDITION GUSTS
- 5. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 6. GROUND LOOP/SWERVE UNCONTROLLED -

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

----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 LED TO HIS FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING THE LANDING. CONTRIBUTING FACTORS WERE: USE OF AN UNFAVORABLE RUNWAY, CROSSWIND, AND GUSTS.

Basic Information						
Type Operating Certificate-AGRICULTURAL		ft Damage	.	Injur		
Type of Openation -AEDIAL ADDIT		ANTIAL Crew	Fatal O	Serious	Minor O	None
Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137	NONE	Pass	0	0	0	1 0
Accident Occurred During -LANDING	NONE	1 433	O	V	O	O
·Aircraft İnformation						
Make/Model - CESSNA A188B	Eng Make/Model - C					
Landing Gear - TAILWHEEL-ALL FIXED			S	tall Warnin	g System	- YES
Max Gross Wt - 3300	Engine Type - R					
No. of Seats - 1	Rated Power -	300 HP				
Environment/Operations Information	******					
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary G Last Departure Poin	+	ON AIR	Proximity		
Method - N/A	SAME AS ACC/INC	· ·	UN AIR	SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		PVT ST			
Wind Dir/Speed- LIGHT AND VARIABLE			_	Ident -	18	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		JRF
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 - 25	Medical Certifica	te - VALID	MEDICAL-NO	WAIVERS	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flia	ht Time (H		-•	
ATP,CFI	Current - YES	Total -		Last 24	Hrs -	5
SE LAND, ME LAND	Months Since - 5	Make/Model- Instrument-	1300	Last 30	Days-	170
	Aircraft Type - PA-30			Last 90	Days-	270
		Multi-Eng -	100			
Instrument Rating(s) - AIRPLANE						
Narrative						
PLT RPRTD THAT WHILE LANDING, THERE WAS A						
TAILWHEEL THEN SWIVELED & THE ACFT GROUND		THE BOLTS HAD BEEN	SUBJECTED	TO HEAVY F	ORCES	
ING OPERATIONS ON ROUGH, DIRT, AG OPERATIN	NG AREAS.					

File No. - 414 6/15/89 FORT BENTON, MT A/C Reg. No. N4971Q Time (Lc1) - 0945 MDT Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation LANDING - ROLL Finding(s) 1. LANDING GEAR, TAILWHEEL ASSEMBLY - FAILURE, TOTAL Occurrence #2 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 2. DIRECTIONAL CONTROL - NOT MAINTAINED -3. GROUND LOOP/SWERVE - UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE TAILWHEEL ASSEMBLY ATTACHING BOLTS.

File No 500 7/07/89 FORT	BENTON, MT A/C	Reg. No. N2	802J	T	ime (Lcl)	- 0455 MD	T
-Basic Information Type Operating Certificate-AGRICULTURAL		aft Damage ANTIAL		Fatal		uries Minor	None
Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137 Accident Occurred During -TAKEOFF	NONE		Crew Pass	0 0	0	0	1 O
Make/Model - CESSNA T188C Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4200 No. of Seats - 1	Eng Make/Model - (Number Engines - Engine Type - F Rated Power -	1				Activated	
-Environment/Operations Information							
Weather Data Wx Briefing - UNK/NR Method - UNK/NR	Itinerary Last Departure Poir SAME AS ACC/INC	nt		Airport I ON AIR			
Completeness - WEATHER NOT PERTINENT Basic Weather - VMC				Airport Da			
Wind Dir/Speed- 255/003 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAWN	ATC/Airspace Type of Flight Plar Type of Clearance Type Apch/Lndg			Runway Runway	Ident Lth/Wid Surface Status	- 2400/ - DIRT	75
-Personnel Information Pilot-In-Command	Age - 25	Medical C	ertificat	e - VALID	MEDICAL-N	NO WAIVERS	/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review			t Time (Ho			
ATP,CFI SE LAND,ME LAND	Current - YES Months Since - 6 Aircraft Type - PA-30	Make/ Instr	- Model- ument- -Eng -		Last 2 Last 3 Last 9		6 150 270
Instrument Rating(s) - AIRPLANE							
-Narrative PLT SAID HE WAS TAKING OFF ON A DIRT STRI LEFT MAIN LANDING GEAR COLLAPSED. THE ACF TS ON THE GEAR HAD FAILED. AN EXAM REVEALE RLOAD FAILURE).	T THEN SETTLED ONTO ITS LE	FT WING & W.	AS DAMAGE	D. THE PL	SAID THE	ATTACHIN	G

File No. - 500 7/07/89 FORT BENTON, MT A/C Reg. No. N2802J Time (Lc1) - 0455 MDT

Occurrence #1 MAIN GEAR COLLAPSED Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. LANDING GEAR, MAIN GEAR ATTACHMENT - OVERLOAD

UNDETERMINED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: OVERLOAD FAILURE OF THE LEFT MAIN LANDING GEAR ATTACHING BOLTS FOR AN UNKNOWN REASON.

File No 464 1/11/89 MA	ADISON,NC	A/C Reg.	No. N9330B	Т	ime (Lcl) -	0728 EST	
TBasic Information Type Operating Certificate-ON-DEMANE Name of Carrier -ATLANTIC Type of Operation -NON SCHEE Flight Conducted Under -14 CFR 13 Accident Occurred During -APPROACH	AERO, INC D,DOMESTIC,CARGO	Aircraft [DESTROYED Fire ON GROUND) Crev		Injur Serious 1 O		None 0 0
Aircraft Information Make/Model - CESSNA 208B Landing Gear - TRICYCLE-FIXED Max Gross Wt - 8750 No. of Seats - 2	Number E	/Model - P&W F ngines - 1 ype - TURBC wer - 60)PROP		Installed/Adtall Warning		
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - FULL Basic Weather - IMC Wind Dir/Speed 020/004 KTS Visibility125 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 100 FT CO Obstructions to Vision- FOG Precipitation - NONE Condition of Light - DAWN	Itinerary Last Depa ROANOKE Destinatio GREENSB ATC/Airspac Type of F DBSCURED Type of C	n ORO,NC e light Plan -]	[FR	OFF AI Airport D ROCKIN Runway Runway Runway	Proximity RPORT/STRIP ata IGHAM COUNTY/ Ident - Lth/Wid - Surface - Status -	31 5200/ ASPHALT	100
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND		Review - YES	edical Certifica Flig Total - Make/Model- Instrument- L Multi-Eng -	ght Time (F 2100 360 JNK/NR	lours) Last 24 Last 30 Last 90	Hrs - UN	
Instrument Rating(s) - AIRPLANE							
S THE PLT WAS EN ROUTE TO GREENSBORO (HIS BOUT 10 SOUTH OF SHILOH, GROUND FOG EXTEN HE RVR WAS 1600 FT. HIS MIMIMUMS WERE 1800 E DIVERTED TO THE ROCKINGHAM COUNTY/SHILOWER THE ALTERNATE ARPT, HE WAS UNABLE TO PCH. THE PLT STATED THAT WHEN HE REACHED S HE CONTD, PATCHY FOG BEGAN TO OBSCURE TROUND. HOWEVER, AS HE BEGAN THE GO-AROUND DA FOR THE APCH WAS 1120 FT MSL.	NDED TO THE SOUTH. A DO FT. HE HELD FOR A DH ARPT, WHERE NO WX GET ENOUGH VISUAL C THE MIN DSCNT ALT (THE RWY, SO HE MANEU	T 0634 EST, HE PERIOD OF TIM RPRTG FACILIT UES FOR A VISU MDA), HE SAW T VERED THE ACFT	E CONTACTED GREE ME, BUT THE WX O FIES WERE AVAILA JAL APCH, SO HE FHE RWY & PROCEE FTO KEEP IT IN	ENSBORO TOW CONTD TO DE ABLE. AFTER ELECTED TO EDED TO MAK SITE, THEN	ER & WAS ADZ TERIORATE, S BEING VECTO MAKE AN SDR E A VISUAL A LELECTED TO	ZD SO DRED = APCH. GO	

File No. - 464 1/11/89 MADISON,NC A/C Reg. No. N9330B Time (Lc1) - 0728 EST

Occurrence #1 IN FLIGHT COLLISION WITH OBJECT

Phase of Operation APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

Finding(s)

- 1. FLIGHT TO ALTERNATE DESTINATION
- 2. WEATHER CONDITION LOW CEILING
- 3. WEATHER CONDITION FOG
- 4. MISSED APPROACH DELAYED PILOT IN COMMAND
- 5. IFR PROCEDURE IMPROPER PILOT IN COMMAND
- 6. OBJECT TREE(S)
- 7. MINIMUM DESCENT ALTITUDE NOT MAINTAINED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER IFR PROCEDURE BY THE PILOT AND HIS FAILURE TO MAINTAIN THE MINIMUM DESCENT ALTITUDE (MDA). CONTRIBUTING FACTORS WERE: LOW CEILING, FOG, DELAYED MISSED APPROACH BY THE PILOT, AND TREES.

File No 509 3/11/89 SANFO	RD,NC	A/C Reg. No	. N13188	Т	ime (Lcl)	- 1730 EST	<u>.</u>
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	L AVIATION)	Aircraft Damag SUBSTANTIAL Fire NONE	ge Crew Pass	Fatal O O	Injur Serious O O	ries Minor O O	None 1 2
Aircraft Information Make/Model - CESSNA 172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Eng Make/M Number Eng Engine Typ Rated Powe	e - RECIPROCA	ATING-CARBURE	TOR	Installed// Stall Warnir	ng System	- YES
Environment/Operations Information Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 220/006 KTS Visibility - 10.0 SM Lowest Sky/Clouds - 25000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	LOCAL ATC/Airspace TERED Type of Flig	CC/INC ght Plan - NONE arance - NONE ndg - TRAFI		Airport OFF AI Airport D SANFOR Runway Runway Runway	Proximity RPORT/STRIF Data RD LEE COUNT	TY - 21 - 4300/ - ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 35 Biennial Flight R Current Months Since Aircraft Type	Medica eview - YES To - 2 Ma - C-150 I	al Certificat Fligh otal - ake/Model- nstrument-	t Time (F		1 Hrs -) Days- UN	1 NK/NR
Instrument Rating(s) - NONE							
THE PRIVATE PILOT HAD OBTAINED HIS PILOT CERT 53 PILOT HOURS AT THE TIME OF THE ACCIDENT. HPLT HAD TAKEN HIS BROTHER AND A FRIEND FOR A HE MADE A TRAFFIC PATTERN AND DURING THE TURN LOW ALTITUDE. THE ENGINE DID NOT RESPOND. HE THE ENGINE WAS INSPECTED AND A RUN PERFORMED. THE FORMATION OF CARBURETOR ICE. THE CARBURET	IE HAD ABOUT 4 HOUR RIDE IN THE LOCAL I FROM DOWN WIND TO LANDED IN A PLOWED	S IN THE C-172 AREA FOR ABOUT A BASE TRIED TO A GARDEN AND THE FACTORILY. ATMOS	AND HAD JUST AN HOUR. UPON ADD POWER TO AIRPLANE NOS SPHERIC CONDI	CHECKED O RETURNIN CORRECT F ED OVER. TIONS WEF	OUT IN IT. T NG TO THE FI FOR SUBSEQUENTI	ΓΗΕ ΓELD, -Y,	

File No. - 509 3/11/89 SANFORD, NC A/C Reg. No. N13188 Time (Lcl) - 1730 EST

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation APPROACH - VFR PATTERN - BASE TURN

Finding(s)

1. FUEL SYSTEM, CARBURETOR - ICE

2. WEATHER CONDITION - CARBURETOR ICING CONDITIONS

3. INADEQUATE TRANSITION/UPGRADE TRAINING - PILOT IN COMMAND

4. CARBURETOR HEAT - IMPROPER USE OF - 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 - ROUGH/UNEVEN

6. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CARBURETOR ICE DUE TO THE FAILURE OF THE PILOT TO PROPERLY USE THE CARBURETOR HEAT CONTROL DURING DESCENT AND FLIGHT IN THE TRAFFIC PATTERNS AT REDUCED POWER. UNDERLYING THIS IS INADEQUATE TRAINING IN THE PROPER UNDERSTANDING OF CARBURETOR ICING AND THE PROPER METHODOLOGY OF DEALING WITH THIS PHENOMENON.

Type Operating Certificate-NONE (GENE		raft Damage		Injur		
Type of Operation -PERSONAL	SUBS Fire	STANTIAL Crew	Fatal O	-	Minor O	None 1
Flight Conducted Under -14 CFR 91	NONE		0	0	0	1
Accident Occurred During -LANDING						·
-Aircraft Information		-				
Make/Model - CESSNA 150		CONTINENTAL 0-200-A				
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1650	Number Engines -	1 RECIPROCATING-CARBURI		tall Warnin	g System	- YES
No. of Seats - 2	9 ,	100 HP				
Weather Data	Itinerary	-	Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Departure Poi	int	OFF AI	RPORT/STRIP		
Method - N/A	NEW BERN, NC					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL			T -1 - 1		
Wind Dir/Speed- UNK/NR Visibility - 15.0 SM	ATC/Airspace			Ident - Lth/Wid -	N/A	
Lowest Sky/Clouds - 4000 FT SC	ATC/ATTSpace	an - NONE		Surface -		
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	Status -		
Obstructions to Vision- NONE	Type Apch/Lndg	- SIMULATED FORCED	LANDING	o ca ca o	.,, ,,	
Precipitation - NONE	. , , , ,					
Condition of Light - DAYLIGHT		·				
-Personnel Information						
Pilot-In-Command	Age - 23				WAIVERS/	LIMII
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight Review Current - YES	Filgi Total -	nt Time (F	ours)	Hnc - UN	V /ND
SE LAND	Current - YES Months Since - 5	Total - Make/Model- 50 Instrument- UI	60	Last 24	Dave-	4
SE EAND	Aircraft Type - C-15	50 Instrument- U	JK /NR	Last 90	Days-	10
	All clare Type of te	Multi-Eng -	0	Rotorcr	aft -	Ö
Instrument Rating(s) - NONE						
PILOT WAS PRACTICING A FORCED LANDING W	VITH AN INTENDED POWER RECOV	VERY AT 100 FT AGI HI	STATED T	HAT AS POWE	R WAS	
LIED TO GO AROUND, THE AIRPLANE ENCOUNTE						

File No. - 425 4/26/89 NEW BERN,NC A/C Reg. No. N1595Q Time (Lcl) - 1930 EDT

Occurrence #1
Phase of Operation

ON GROUND COLLISION WITH TERRAIN/WATER

Phase of Operation LANDING - ROLL

Finding(s)

- 1. EMERGENCY PROCEDURE SIMULATED -
- 2. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 3. GO-AROUND DELAYED PILOT IN COMMAND
- 4. WEATHER CONDITION TURBULENCE, CLEAR AIR
- 5. PRECAUTIONARY LANDING PERFORMED -
- 6. TERRAIN CONDITION WET
- 7. TERRAIN CONDITION DITCH

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER IN-FLIGHT PLANNING/DECISION AND A DELAYED GO-AROUND. TURBULENCE, WET TERRAIN, AND A DITCH WERE CONTRIBUTING FACTORS.

File No 454 5/07/89 FUQUA	Y-VARINA,NC	A/C Reg. No. N7	vc	Time (Lc1) -	1720 EDT	
Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	L AVIATION)	Aircraft Damage DESTROYED Fire ON GROUND	Fatal Crew O Pass O	Injur Serious 1	ies Minor O	None O O
Accident Occurred During -MANEUVERING		ON GROOME	1 433	Ü		O
Aircraft Information Make/Model - SMITHGALL PITTS SPECIAL Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1150 No. of Seats - 1		nes - 1 - RECIPROCATIN		Installed/A Stall Warnin		
Weather Data Wx Briefing - FSS Method - TELEPHONE Completeness - WEATHER NOT PERTINENT Basic Weather - VMC Wind Dir/Speed- 300/022 KTS Visibility - 20.0 SM Lowest Sky/Clouds - 5000 FT SCAT Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	APEX,NC ATC/Airspace	ht Plan - NONE rance - NONE	OFF A Airport Runwa Runwa Runwa Runwa		N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND,ME LAND,SE SEA	Age - 59 Biennial Flight Re Current Months Since Aircraft Type	view - YES Total - 8 Make/ - C-21O Instr	ertificate - VALI Flight Time (- 6865 Model- 1310 ument- 258 -Eng - 65	Hours) Last 24	Hrs - Days-	1.T 1 15 50
Instrument Rating(s) - AIRPLANE						
Narrative HE PILOT WAS PRACTICING AN AEROBATIC MANEUVE ROM WHICH THERE WAS INSUFFICIENT ALTITUDE TO ILOT WAS ABLE TO CRAWL AWAY FROM THE AIRCRAF IRE.	RECOVER. WHILE STI	LL DESCENDING, THE	AIRCRAFT HIT TRE	ES & CRASHED	. THE	

File No. - 454 5/07/89 FUQUAY-VARINA,NC A/C Reg. No. N7VC Time (Lc1) - 1720 EDT

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

Finding(s)

1. AEROBATICS - PERFORMED 2. STALL/SPIN - INITIATED 3. ALTITUDE - INADEQUATE - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT DID NOT MAINTAIN SUFFICIENT ALTITUDE TO INSURE RECOVERY FROM AN AEROBATIC MANEUVER AND SPIN.

Basic Information Type Operating Certificate-NONE (GENERA	I AVIATION) Aircr	aft Damage		Injur	ies	
Type operating certificate Noise (delicks	DESTI		Fatal	•		None
Type of Operation -PERSONAL	Fire				1	0
Flight Conducted Under -14 CFR 91	NONE		s 0	1	1	0
Accident Occurred During -LANDING						
Aircraft Information						
Make/Model - CESSNA 177		LYCOMING 0-360-A1F6		Installed/A	ctivated	- YES/YE
Landing Gear - TRICYCLE-FIXED		1		tall Warnin	g System	- YES
Max Gross Wt - 2500	Rated Power -	RECIPROCATING-CARBL	KETUK			
No. of Seats - 4	Rated Power -	180 HP				
Environment/Operations Information	T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			D		
Weather Data Wx Briefing - NO RECORD OF BRIEFING	Itinerary Last Departure Poi	a+		Proximity RPORT/STRIP		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	SAME AS ACC/INC		UFF AI	KPUKI/SIKIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL			TRAIL		
Wind Dir/Speed- CALM			Runway	Ident -	04	
Visibility - 14.0 SM	ATC/Airspace		Runway	Lth/Wid -	2300/	60
Lowest Sky/Clouds - CLEAR	Type of Flight Pla			Surface -		
Lowest Ceiling - NONE	Type of Clearance			Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONE	•					
Condition of Light - DAYLIGHT						
Personnel Information	A SIGNAL AND	Medical Certific	oto VALID	MEDICAL -NO	WATVEDS	/, TMTT
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - UNK/NR Biennial Flight Review	Medical Certific	ght Time (H		WAIVEKS/	CIMII
PRIVATE	Current - YFS	Total -	159	Last 24	Hrs - UN	IK/NR
SE LAND	Current - YES Months Since - 7 Aircraft Type - UNK/	Make/Model-	3	Last 30	Days-	4
4	Aircraft Type - UNK/	NR Instrument-	2	Last 90	Days- UN	IK/NR
	· ·					
Instrument Rating(s) - NONE						
ER LANDING ON A 2300 FT RWY IN CALM WIND,	THE ACET BOUNCED 3 TIMES	& THE PLT FLECTED T	O ABORT THE	LANDING D	URING	
ABORTED LANDING, THE ACFT STRUCK THE TOP	WIDE OF MARKED LITTLITY LI	NES & CRASHED TO TH	IF GROUND T	HE LITTLITY	LINES	

File No. - 447 5/27/89 INDIAN TRAIL, NC A/C Reg. No. N13630 Time (Lc1) - 1415 EDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - ABORTED Finding(s) 1. FLARE - IMPROPER - PILOT IN COMMAND 2. RECOVERY FROM BOUNCED LANDING 3. OBJECT - WIRE, TRANSMISSION (MARKED) 4. ABORTED LANDING - DELAYED - PILOT IN COMMAND IN FLIGHT COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation DESCENT - UNCONTROLLED

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DELAY IN ABORTING THE LANDING AFTER A BOUNCED LANDING. CONTRIBUTING FACTORS WERE: IMPROPER FLARE BY THE PILOT AND THE TRANSMISSIONS LINES.

----Probable Cause----

File No 455 6/03/89 TOWN:	SVILLE,NC A/C	Reg. No. N1769	Т	ime (Lc1) -	1756 ED	Т
Type Operation Type Operating Certificate-NONE (GENER, Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	AL AVIATION) Aircra DESTRI Fire ON GRI	Crew		Injur Serious O O		None O O
Accraft Information Make/Model - BLOODWORTH PITTS SPECIAL Manding Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 900 No. of Seats - 1	AL S-1C Eng Make/Model - L Number Engines - Engine Type - R Rated Power -	1	S	Installed/Adtall Warning		
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 220/008 KTS Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point UNK/NR Destination UNK/NR ATC/Airspace 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 N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND,ME LAND Instrument Rating(s) - NONE	Age - 53 Biennial Flight Review Current - UNK/NI Months Since - UNK/NI Aircraft Type - UNK/NI	R Total - R Make/Model- L	ght Time (H 1600 JNK/NR JNK/NR	ours) Last 24	Hrs - U Days- U Days- U	NK/NR NK/NR NK/NR
Narrative THE PILOT WAS PERFORMING AEROBATICS FOR A GRO PERFORMED OVERHEAD FOR 10 TO 15 MINUTES; DOI CRASHING IN A WOODED AREA, THE AIRCRAFT ENTER THE AIRCRAFT WAS DESTROYED.	NG LOOPS, ROLLS & STALLS, AI	ND FLEW CLOSE TO BO	ATS ON A L	AKE. JUST É	EFORE	

Time (Lcl) - 1756 EDT 6/03/89 TOWNSVILLE, NC A/C Reg. No. N1769 File No. - 455 Occurrence #1 LOSS OF CONTROL - IN FLIGHT Phase of Operation MANEUVERING Finding(s) 1. AEROBATICS - PERFORMED -2. ALTITUDE - INADEQUATE - PILOT IN COMMAND 3. STALL/SPIN - NOT CORRECTED - PILOT IN COMMAND OSTENTATIOUS DISPLAY - PILOT IN COMMAND 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 ALTITUDE FOR THE PILOT TO RECOVER FROM A SPIN. A CONTRIBUTING FACTOR WAS HIS OSTENTATIOUS DISPLAY.

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File No 445 3/31/89 GARRIS	SON, ND	A/C Reg. No. N6071K			Time (Lcl) - 1300 CST			
Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION)	Aircraf	t Damage	Fatal		uries Minor	None	
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	-	Fire NONE		Crew O Pass O	0	0	2	
Aircraft Information Make/Model - CESSNA 150 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2		gines - 1 pe - REG	NTINENTAL 0-20 CIPROCATING-CA 100 HP	RBURETOR	T Installed Stall Warn	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- 150/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Depar SAME AS Destination LOCAL ATC/Airspace Type of F1 Type of C1 Type Apch/	acc/INC ight Plan earance		Airpor ON A Airport GARR Runw Runw Runw Runw	t Proximity IRPORT Data ISON ay Ident ay Lth/Wid ay Surface ay Status	- 1 3 - 3050/	60	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND	Age - 51 Biennial Flight Current Months Since Aircraft Typ	- YES	Total	Flight Time - 755	(Hours) Last Last	24 Hrs - 30 Days-	ИІТ О З 8	
Instrument Rating(s) - AIRPLANE								
Narrative THE STUDENT PILOT & INSTRUCTOR (CFI) WERE PRACTHE CONTROLS. THE CFI TOLD THE STUDENT TO EXTINCT COMPLIED, BUT THE ACFT TOUCHED DOWN HARD & BOUND HOWEVER, HE THOUGHT THE RUDDER CONTROL WAS INFORM THE LEFT SIDE OF THE RWY. A POST-ACDNT EXTHERE WAS EVIDENCE THAT THE HARD LANDING HAD CONTROL SYSTEMS.	END FULL FLAPS WH JNCED BACK IN THE EFFECTIVE. SUBSEQ AM REVEALED NO EV	EN HE WAS S AIR. THE C UENTLY, THE IDENCE OF F	SURE HE COULD OFI TOOK THE C E LEFT WING CO PREIMPACT DAMA	LAND ON THE ONTROLS & AT NTACTED THE GE OR MALFUN	RWY. THE ST TEMPTED A G RWY & THE A CTION. HOWE	UDENT O-AROUND; CFT WENT VER,		

File No. - 445 3/31/89 GARRISON, ND A/C Reg. No. N6071K Time (Lc1) - 1300 CST

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

1. FLARE - IMPROPER - DUAL STUDENT

2. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI)

3. LANDING GEAR, NOSE GEAR - OVERLOAD

Occurrence #2

LOSS OF CONTROL - ON GROUND

Phase of Operation LANDING - ABORTED

Finding(s)

4. DIRECTIONAL CONTROL - NOT MAINTAINED -

5. GROUND LOOP/SWERVE - UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER FLARE BY THE STUDENT AND INADEQUATE SUPERVISION OF THE FLIGHT BY THE CFI WHICH DAMAGED THE NOSE GEAR AND RESTRICTED MOVEMENT OF THE NOSEWHEEL STEERING AND RUDDER CONTROL.

File No 448 4/05/89 DEVII	_S LAKE,ND A/C Reg	. No. N7523K 	T	ime (Lcl) - 	1745 CD7	-
-Basic Information Type Operating Certificate-NONE (GENER) Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	AL AVIATION) Aircraft [SUBSTANT: Fire NONE		-	Injuri Serious O O	ies Minor O O	None 1 1
-Aircraft Information Make/Model - PIPER PA-18 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1500 No. of Seats - 2	Eng Make/Model - LYCOM Number Engines - 1 Engine Type - RECIM Rated Power - 1	MING 0-235-E PROCATING-CARBUR	ELT S ETOR		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- 030/008 KTS Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point SAME AS ACC/INC Destination LOCAL ATC/Airspace Type of Flight Plan - I Type of Clearance - I Type Apch/Lndg -	NONE	Airport DON AIRI Airport DON DEVILS Runway Runway Runway	Proximity PORT ata LAKE Ident Lth/Wid Surface	31 5509/	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 35 Me Biennial Flight Review Current - YES Months Since - 2 Aircraft Type - C-182RG	Total - Make/Model-	ht Time (Ho 496	ours) Last 24	Hrs -	6 15 49 0
Instrument Rating(s) - AIRPLANE						

File No. - 448 4/05/89 DEVILS LAKE, ND A/C Reg. No. N7523K Time (Lcl) - 1745 CDT

Occurrence #1 Phase of Operation LANDING - ROLL

LOSS OF CONTROL - ON GROUND

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 INADVERTENT PILOT IN COMMAND
- 5. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

ON GROUND COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation LANDING - ROLL

----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, WHICH RESULTED IN LOSS OF DIRECTIONAL CONTROL AND AN INADVERTENT GROUND LOOP/SWERVE. CONTRIBUTING FACTORS WERE: THE CROSSWIND AND THE PILOT'S LACK OF FAMILIARITY WITH THE AIRCRAFT.

File No 561 7/02/89 STOCK	VILLE,NE A/C R	A/C Reg. No. N6629Q Time (Lc1) - 1200 C			1200 CDT	DT	
Basic Information Type Operating Certificate-AGRICULTURAL Type of Operation -AERIAL APPLI Flight Conducted Under -14 CFR 137 Accident Occurred During -MANEUVERING	SUBSTA	t Damage NTIAL Crew Pass	Fatal O O	Injur Serious O O	ies Minor O	None 1 0	
Accident occurred buring -MANEOVERING							
-Aircraft Information Make/Model - GRUMMAN G-164B Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 4500 No. of Seats - 1	Eng Make/Model - P& Number Engines - 1 Engine Type - RE Rated Power -	CIPROCATING-CARBURE	S ETOR	Installed/A tall Warnin	g System	- YES	
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Departure Point CURTIS,NE			Proximity RPORT/STRIP			
Completeness - N/A Basic Weather - VMC	Destination LOCAL		Airport D	ata			
Wind Dir/Speed- 160/005 KTS Visibility - 15.0 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	Ident - Lth/Wid - Surface - Status -	GRASS/TU	RF	
-Personnel Information Pilot-In-Command	Age - 58	Medical Certificat	- VALID	MEDICAL -WA	TVEDC/LIM	T T	
Certificate(s)/Rating(s)			nt Time (H		IVERS/LIM	11	
COMMERCIAL SE LAND	Biennial Flight Review Current - YES Months Since - 17 Aircraft Type - UNK/NR	Make/Model-	5000 4600 IK/NR	Last 24 Last 30 Last 90	Days-	10 150 200 K/NR	
Instrument Rating(s) - NONE							
Narrative E PILOT SAID THAT DURING AN AERIAL APPLICAT ERGENCY LDG WAS ATTEMPTED WHICH RESULTED IN CIDENT INVESTIGATION REVEALED A BROKEN CYLII	ION OPERATION, THE ENGINE S SUBSTANTIAL DAMAGE TO THE	USTAINED A TOTAL ME ACFT AND NO INJURIE					

File No. - 561 7/02/89 STOCKVILLE, NE A/C Reg. No. N6629Q Time (Lc1) - 1200 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 1. POWERPLANT - FAILURE, TOTAL 2. ENGINE ASSEMBLY, CYLINDER - FAILURE, TOTAL 3. EMERGENCY PROCEDURE - ATTEMPTED - PILOT IN COMMAND FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - EMERGENCY Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: TOTAL FAILURE OF THE POWERPLANT CAUSED BY A BROKEN CYLINDER.

Basic Information	(a						
Type Operating Certificate-NONE	(GENERAL AVIATION)	Aircraft Dam	•	F-4-1		ıries	M
Type of Operation -INSTRU	JCTIONAL	SUBSTANTIAL Fire	Crew	Fatal O	Serious O	Minor O	None 2
Flight Conducted Under -14 CF		NONE	Pass	0	0	0	0
Accident Occurred During -TAKEO		140142	1 433	Ŭ	Ü	Ŭ	Ŭ
vircraft Information							
Make/Model - CESSNA 152		/Model - LYCOMIN	G 0-235-N2C			Activated	
Landing Gear - TRICYCLE-FIXED	Number Er	ngines - 1		9	itali Warni	ng System	- YES
Max Gross Wt - 1675	Engine Ty	· •	CATING-CARBURE	TOR			
No. of Seats - 2	Rated Pow	wer - 108	HP 				
nvironment/Operations Information							
leather Data	Itinerary				Proximity		
Wx Briefing - UNK/NR		rture Point		ON AIR	RPORT		
Method - UNK/NR		ACC/INC					
Completeness - UNK/NR	Destination	า		Airport [
Basic Weather - VMC	LOCAL				N PARK	0.4	
Wind Dir/Speed- 040/010 KTS	ATO /A :	_			/ Ident	- 01	40
Visibility - UNK/NR Lowest Sky/Clouds - 4000	ATC/Airspace		_		Lth/Wid		40
		learance - NON			Surface		
Lowest Ceiling - NONE Obstructions to Vision- NONE	Type of C			kunway	/ Status	- DRY	
Precipitation - NONE	Type Apcily	richag - Non	<u> </u>				
Condition of Light - DAYLIG	I T						
Personnel Information							
Pilot-In-Command	Age - 27	Medi	cal Certificat	e - VALIO	MEDICAL-N	O WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Fligh	t Time (F	lours)		
STUDENT	Current	- N/A	Total -	67	Last 2	24 Hrs -	1
	Months Since	e - N/A	Total - Make/Model- Instrument-	63	Last 3	80 Days-	14
	Aircraft Typ	pe - N/A	Instrument-	2	Last 9	00 Days-	29
Instrument Rating(s) - NONE							
That dilett Rating(3) None							
larrative							
STUDENT & FLT EXAMINER (F/E) WERE (ON A PRIVATE PLT CHECK !	LT TO CHECK THE	STUDENT. WHEN	THE TAKE	OFF ROLL O	COMMENCED,	
F/E'S SHOULDER HARNESS WAS HANGING							
WAS HEARD. THE F/E OPENED HIS DO							
SO THE STUDENT REDUCED POWER TO A							
MPTED TO TAKEOFF. SHORTLY AFTER LI							
"CUT" THE POWER & APPLIED MAX BRAI							
PING, THE ACFT STRUCK A PARKED BELL	206 HELICOPTER. THERE	WAS A 10 KT QUA	RTERING X-WIND	FROM THE	RIGHT WHE	N THE	
OCCURRED.							

3/08/89 LINCOLN PARK, NJ A/C Reg. No. N94252 Time (Lc1) - 1145 EST File No. - 409 MISCELLANEOUS/OTHER Occurrence #1 TAKEOFF Phase of Operation Finding(s) 1. SHOULDER HARNESS - NOT USED - CHECK PILOT 2. MISC EQPT/FURNISHINGS.SHOULDER HARNESS - NOT SECURED 3. AIRCRAFT PREFLIGHT - IMPROPER - CHECK PILOT Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF Finding(s) 4. PLANNING-DECISION - IMPROPER - CHECK PILOT 5. LIFT-OFF - PREMATURE - CHECK PILOT 6. WEATHER CONDITION - CROSSWIND 7. TERRAIN CONDITION - SNOWBANK 8. PROPER ALIGNMENT - NOT MAINTAINED - CHECK PILOT Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation TAKEOFF - ABORTED Finding(s) 9. TERRAIN CONDITION - SNOW COVERED 10. TERRAIN CONDITION - WET 11. OBJECT - AIRCRAFT PARKED ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER DECISION AND PLANNING BY THE CHECK PILOT (F/E) WHICH RESULTED IN LOSS OF PROPER ALIGNMENT AND COLLISION WITH A SNOWBANK AT THE EDGE OF THE RUNWAY. CONTRIBUTING FACTORS WERE: INADEQUATE PREFLIGHT BY THE F/E, F/E'S UNSECURED SHOULDER HARNESS, PREMATURE LIFT-OFF BY THE F/E, CROSSWIND, SNOWBANK & WET/SNOW COVERED TERRAIN.

File No 515 5/09/89 REGI	NA,NM A/C	M A/C Reg. No. N88RA			Time (Lcl) - 1430 MDT				
Basic Information Type Operating Certificate-NONE (GENER		ft Damage	Injuries						
Towns of Ownerships	SUBST		Fatal	_	Minor	None			
Type of Operation -TEST FLIGHT Flight Conducted Under -14 CFR 91		Cre Pas		0	0	1			
Accident Occurred During -LANDING	NOINE		-	-	•	O			
Aircraft Information									
Make/Model - ENSTROM F-28C		YCOMING HIO-360-E1		Installed/Ac					
Landing Gear - SKID Max Gross Wt - 2350	Number Engines -	1 ECIP-FUEL INJECTED		tall Warning	System	- NU			
No. of Seats - 3	Rated Power -	205 HP							
Environment/Operations Information									
Weather Data	Itinerary			Proximity					
Wx Briefing - NO RECORD OF BRIEFIN		it	OFF AI	RPORT/STRIP					
Method - N/A Completeness - N/A	SAME AS ACC/INC Destination		Airport D	10+0					
Basic Weather - VMC	SAME AS ACC/INC		ATTPOTE	ala					
Wind Dir/Speed- 080/015 KTS	SAME AS ACC/INC		Runway	Ident -	N/A				
Visibility - 30.0 SM	ATC/Airspace			Lth/Wid -					
Lowest Sky/Clouds - 5000 FT	Type of Flight Plar	- NONE	Runway	Surface -	N/A				
Lowest Ceiling - 5000 FT BRO	KEN 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 - 52	Medical Certific	ate - VALTO	MEDICAL-WAI	VERS/LIM	тт			
Certificate(s)/Rating(s)	Riennial Flight Doview	Fli	ght Time (F		· Livo, Liv				
COMMERCIAL	Current - YES	Total -	10000	Last 24	Hrs -	3			
SE LAND, ME LAND	Months Since - 1 Aircraft Type - UNK/N	Make/Model- IR Instrument-	60	Last 30	Days-	35			
HELICOPTER	Aircraft Type - UNK/N	IR Instrument-	120	Last 90		100			
		Multi-Eng -	2000	Rotorcra	ft -	300			
Instrument Rating(s) - AIRPLANE									
ILE CONDUCTING A TEST FLT FOLLOWING REPAIR									
IL ROTOR ON THE GROUND WHILE TRANSITIONING	FROM FORWARD FLT TO A HOVE	R. THE GROUND CONT	ACT CAUSED	THE TAIL					
TOR DRIVE SHAFT TO FAIL AND THE HELICOPTER									
TITUDE AT THE TIME OF THE ACCIDENT WAS CAL AT THE GROUND EFFECT HOVER CEILING IS 8,80		IE ENSTROM F-28C OP	ERATORS HAN	IDBOOK NOTES					
	A ET								

File No. - 515 5/09/89 REGINA, NM A/C Reg. No. N88RA Time (Lcl) - 1430 MDT

Phase of Operation LANDING - FLARE/TOUCHDOWN

Occurrence #1 IN FLIGHT COLLISION WITH TERRAIN/WATER

Finding(s)

- 1. TERRAIN CONDITION GRASS
- 2. PLANNED APPROACH POOR PILOT IN COMMAND
- 3. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 4. PERFORMANCE DATA DISREGARDED PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S POORLY PLANNED APPROACH AND DISREGARD OF THE HELICOPTERS PERFORMANCE DATA. CONTRIBUTING TO THE ACCIDENT WAS THE HIGH DENSITY ALTITUDE CONDITIONS WHICH EXISTED AT THE TIME OF THE ACCIDENT.

File No 418 6/16/89 LAS	CRUCES,NM	A/C Reg. No. N36345		-	Time (Lcl) - 1115 MDT				
Basic Information									
Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft			Injuries				
		SUBSTAN	ITIAL	Fatal	Serious	Minor	None		
Type of Operation -INSTRUCTION	AL	Fire	Cr	rew O	0	0	2		
Flight Conducted Under -14 CFR 91		NONE	Pa	ass O	0	0	1		
Accident Occurred During -LANDING									
-Aircraft Information									
Make/Model - PIPER PA-34-200T	Eng Make,	/Model - CON	ITINENTAL LTSIO-	-360 ELT	Installed/	Activated	- YES/NO		
Landing Gear - TRICYCLE-RETRACTABLE	Number E	ngines - 2		9	Stall Warnir	ng System	- YES		
Max Gross Wt - 4570	Engine T	ype - REC	IP-FUEL INJECTE	D					
No. of Seats - 6	Rated Po	wer -	220 HP						
Environment/Operations Information									
Weather Data	Itinerary			Airport	Proximity				
Wx Briefing - COMPANY	Last Depa	rture Point		ON AI	RPORT				
Method - IN PERSON	SAME AS	ACC/INC							
Completeness - WEATHER NOT PERTINEN	T Destination	n		Airport [)ata				
Basic Weather - VMC	LOCAL			LAS CI	RUCES				
Wind Dir/Speed- 130/007 KTS				Runway	/ Ident	- 12			
Visibility - 60.0 SM	ATC/Airspac	е		Runway	/ Lth/Wid	- 7494/	150		
Lowest Sky/Clouds - UNK/NR SCA	TTERED Type of F	light Plan -	NONE	Runwa	/ Surface	- ASPHALT			
Lowest Ceiling - NONE	Type of C	learance -	NONE	Runwa	/ Status	- DRY			
Obstructions to Vision- NONE	Type Apch	/Lndg -	TRAFFIC PATTER	RN					
Precipitation - NONE									
Condition of Light - DAYLIGHT									
Personnel Information									
Pilot-In-Command	Age - 36		Medical Certif	icate - VALII	MEDICAL-NO	D WAIVERS	/LIMIT		
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	F '	light Time (I	Hours)				
COMMERCIAL, CFI	Current	- YES	Total -	- 1540	Last 2	4 Hrs -	3		
SE LAND, ME LAND	Months Sinc		Make/Model-		Last 30	Days-	148		
	Aircraft Ty	pe - PA-34	Instrument	- 77	Last 90	Days-	419		
			Multi-Eng	- 42					
Instrument Rating(s) - AIRPLANE									
Nonnetive									
Narrative	ACTED TOUGHDOWN	THE ACET TO	IEN VEEDED OFF 3	THE LEET CIN	OF THE DW	v 9.			
E LEFT MAIN LANDING GEAR COLLAPSED SHORTLY									
S FURTHER DAMAGED. AN INVESTIGATION REVEAL									
O FAILED. THE TRUNNION FAILED IN AN AREA T									
QUIRED AN INSPECTION OF THE TRUNNION AT TH						EVCEED			
HRS UNTIL IT WAS REPLACED BY A MODIFIED	TRUNNIUN. THE ACF	I HAD FLOWN	PI HK2 SINCE II	HE LAST INSPI	CITUN.				
	•								

File No. - 418 6/16/89 LAS CRUCES, NM A/C Reg. No. N36345 Time (Lcl) - 1115 MDT Occurrence #1 MAIN GEAR COLLAPSED Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 1. LANDING GEAR, MAIN GEAR STRUT - FAILURE, TOTAL 2. MAINTENANCE, SERVICE BULLETINS - PERFORMED -3. PROCEDURE INADEQUATE - MANUFACTURER LOSS OF CONTROL - ON GROUND Occurrence #2 Phase of Operation LANDING - ROLL Finding(s) 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: FAILURE OF THE LEFT MAIN LANDING GEAR TRUNNION. A CONTRIBUTING FACTOR WAS: INADEQUATE INSPECTION PROCEDURE IN PIPER SERVICE BULLETIN #787A.

File No 421 6/21/89 MORIA	RITY,NM	A/C Reg. No. N544BM			Time (Lcl) - 1700 MDT			
Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	SUBSTANTIAL					None	
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crew Pass	0	0	0	1 O	
-Aircraft Information Make/Model - BEAUCHESNE/WELLS GLASAI Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1600 No. of Seats - 2	Number Er Engine Ty	/Model - LYCOMING ngines - 1 /pe - RECIP-FL /er - 190 F	EL INJECTED		Installed/Acti tall Warning S			
Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON Completeness - WEATHER NOT PERTINENT	Itinerary Last Depar TUCUMCAR Destination	RI,NM			Proximity RPORT/STRIP			
Basic Weather - VMC Wind Dir/Speed- UNK/NR Visibility - 20.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	ALBUQUER ATC/Airspace Type of F	RQUE,NM	:	Runway Runway Runway	Ident - N/ Lth/Wid - N/ Surface - N/ Status - N/	΄Α ΄Α		
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT		/Lndg - FORG		Runway	status - N/	Д		
Personnel Information Pilot-In-Command	Age - 43	Media	al Certificat		MEDICAL-WAIVE	ERS/LIM	IIT	
<pre>Certificate(s)/Rating(s) PRIVATE</pre>	Biennial Flight	~ VEC 1	`^+>1 -	it Time (H 520	1 ac+ 24 Hr	· -	4	
SE LAND GLIDER	Months Since Aircraft Typ	- YES T e - 16 M pe - TB-20 I	Make/Model- Instrument-	47 7	Last 30 Da Last 90 Da	iys- iys-	12 14	
Instrument Rating(s) - NONE								
-Narrative PLT RPRTD THAT DRG FLT, THE PROP BEGAN TO FIND A SUITABLE AREA FOR AN EMERGENCY LAND CED TO LAND ON DESERT TERRAIN. DRG THE LAN P HAD BEEN MOUNTED ON THE ENG WITH AN EXTE P. SUBSEQUENTLY, THE PROP BEGAN A SEVERE V	ING. HOWEVER, AT DING, THE ACFT WA NSION, BUT THE EX	AN ALT OF ABOUT AS SUBSTANTIALLY (TENSION DID NOT	400' AGL, THE DAMAGED. AN I HAVE A MEANS	PROP SEP NVESTIGAT TO PRECIS	D & THE PLT WA ION REVEALED T ELY CENTER THE	NS THE E		

A/C Reg. No. N544BM Time (Lcl) - 1700 MDT File No. - 421 6/21/89 MORIARITY, NM Occurrence #1 AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation CRUISE - NORMAL Finding(s) 1. PROPELLER SYSTEM/ACCESSORIES - VIBRATION 2. MAINTENANCE, INSTALLATION - IMPROPER - OTHER MAINTENANCE PSNL 3. PROPELLER SYSTEM/ACCESSORIES - OVERLOAD 4. PROPELLER SYSTEM/ACCESSORIES - SEPARATION 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) 5. TERRAIN CONDITION - ROUGH/UNEVEN ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER INSTALLATION OF THE PROPELLER WHICH RESULTED IN SEVERE VIBRATION AND FAILURE OF THE PROPELLER MOUNTING BOLTS,

& THE SEPARATION OF THE PROPELLER FROM THE AIRCRAFT. ROUGH/UNEVEN DESERT TERRAIN CONTRIBUTED TO THE ACCIDENT.

Basic Information Type Operating Certificate-NONE (GENER	RAL AVIATION)	Aircraft Damage			Injur		
		MINOR	_	Fatal		Minor	None
Type of Operation -PERSONAL		Fire	Crew	0	0	0	1
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass Other	0	0	0	0
Aircraft Information	5 M-1 /M-	de la CONTINENTAL	0.0004		Installed/A		VEC /
Make/Model - CESSNA 150L Landing Gear - TRICYCLE-FIXED	Eng Make/Mo	del - CONTINENTAL	L 0-200A		tall Warnir		
Max Gross Wt - 1600		- RECIPROCAT	ING-CARBURE		cari wariii	ig system	123
No. of Seats - 2	Rated Power						
Environment/Operations Information							·
Weather Data	Itinerary				Proximity		
Wx Briefing - NO RECORD OF BRIEFIN				ON AIR	PORI		
Method - N/A Completeness - N/A	SENECA FAL Destination	_5,101		Airport D	ata		
Basic Weather - VMC	LOCAL			•	FALLS		
Wind Dir/Speed- 200/005 KTS	200//2				_	18	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid -		50
Lowest Sky/Clouds - UNK/NR		nt Plan - NONE			Surface -		
Lowest Ceiling - 8000 FT BRO		rance - NONE		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Ln	dg - TOUCH	AND GU				
Precipitation - NONE Condition of Light - DAYLIGHT							
Personnel Information							
Pilot-In-Command	Age - 69	Medical	Certificat		MEDICAL-WA	IVERS/LI	ΛΙΤ
Certificate(s)/Rating(s)	Biennial Flight Re	view	Fligh	t Time (F			uz /ND
STUDENT	Current Months Since	- N/A Tota	al - o/Modol-	27	Last 24 Last 30	Hrs - U	NK/INK
	Aircraft Type	- N/A Ins	trument-	1	Last 90	Days Days-	7
	All clare Type	1113	er amerre	•	Edot 30	Juyo	,
Instrument Rating(s) - NONE							
CESSNA 150 LANDED ON TOP OF THE CESSNA	172 AS BOTH AIRCRAFT	WERE LANDING AT	AN UNCONTRO	LLED AIRF	ORT.		
OUGH THEY BOTH SAID THAT THEY RADIOED TH							

File No. - 537 1/29/89 SENECA FALLS,NY A/C Reg. No. N17109 Time (Lc1) - 1610 EST

Occurrence #1 Phase of Operation

Occurrence #1 MIDAIR COLLISION

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. VISUAL LOOKOUT INADEQUATE PILOT IN COMMAND
- 2. RADIO COMMUNICATIONS INADEQUATE PILOT OF OTHER AIRCRAFT
- 3. RADIO COMMUNICATIONS INADEQUATE PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT OF THE C-150, N17109, TO MAINTAIN PROPER SEPARATION FROM OTHER AIRCRAFT DURING LANDING AT AN UNCONTROLLED AIRPORT.

Injuries Serious Minor 0 0 0 0 0 0 Installed/Activate tall Warning System Proximity PORT ata FALLS	1 O 1 d d - YES/N m - YES
tall Warning System Proximity PORT ata	m - YES
Proximity PORT ata	
Ident - 18 Lth/Wid - 3200/ Surface - ASPHAL Status - DRY	
MEDICAL-NO WAIVER lours) Last 24 Hrs - Last 30 Days- Last 90 Days-	S/LIMIT 1 1 1
. 10	MEDICAL-NO WAIVER lours) Last 24 Hrs - Last 30 Days-

File No. - 537 1/29/89 SENECA FALLS,NY A/C Reg. No. N12679 Time (Lc1) - 1610 EST

Occurrence #1 MIDAIR COLLISION

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. VISUAL LOOKOUT INADEQUATE PILOT OF OTHER AIRCRAFT
- 2. RADIO COMMUNICATIONS INADEQUATE PILOT IN COMMAND
- 3. RADIO COMMUNICATIONS INADEQUATE PILOT OF OTHER AIRCRAFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE OF THE PILOT OF THE C-150, N17109, TO MAINTAIN PROPER SEPARATION FROM OTHER AIRCRAFT DURING LANDING AT AN UNCONTROLLED AIRPORT.

File No 524 2/19/89 GLE	N FALLS,NY	A/C Reg. No	. N1DQ	-	Time (Lc1) -	1600 EST	
Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION)	Aircraft Dama	ge		Injur	ries	
		DESTROYED	_	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew	2	0	0	0
Flight Conducted Under -14 CFR 91		ON GROUND	Pass	0	0	0	0
Accident Occurred During -CLIMB			Other	4	0	0	0
Aircraft Information							
Make/Model - BEECH A36	Eng Make/N	Model - CONTINEN	TAL IO-520-BA	ELT	Installed/A	ctivated	- YES/YES
Landing Gear - TRICYCLE-RETRACTABLE	Number Eng	gines - 1		9	Stall Warnir	ng System	- YES
Max Gross Wt - 3600	Engine Typ	oe - RECIP-FU	EL INJECTED				
No. of Seats - 4	Rated Powe	er - 285 H	IP				
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFI	NG Last Depart	ture Point		OFF A	RPORT/STRIF		
Method - N/A	GLEN FALI	_S,NY					
Completeness - N/A	Destination	·	A	Airport D	Data		
Basic Weather - VMC	UNK/NR			WARRE	N COUNTY		
Wind Dir/Speed- 280/008 KTS				Runwa	/ Ident -	- 30	
Visibility - 20.0 SM	ATC/Airspace			Runwa	, Lth/Wid -	4000/	100
Lowest Sky/Clouds - 4000 FT SC					Surface -		
Lowest Ceiling - NONE		earance - NONE				- DRY	
Obstructions to Vision- NONE	Type Apch/L			•	· -		
Precipitation - NONE	, , , , , , , , , , , , , , , , , , , ,						
Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	Age - 64	Medic	al Certificate	VΔJ TI	MEDICAL-WA	TVFRS/LIM	IT T
Certificate(s)/Rating(s)	Biennial Flight A			t Time (,	
PRIVATE					Last 24	1 Hrs - IIN	IK /NIP
SE LAND	Months Since	- UNK/NR M					
3L LAND	Aircraft Type	ONK/NK III	netrument- UNI	/ NID	Last 90	Days UN	IK/ND
	Africiant Type	= ONK/NK I	lake/Model- UNA nstrument- UNA Nulti-Eng - UNA		Potonor	raft - UN	IK/INK IK/ND
		JVI	iditi-Eng - Oliv	X/ INK	ROTOFCI	art - on	IK/ INK
Instrument Rating(s) - AIRPLANE							
Namedina							
Narrative	DUV OO AT THE CHAOD	UTDOLLED) WADDEN	L COUNTY ADDT	ONL AND TAIL	TOUMENT		
THE CREW OF BEECH A36, N1DG, TOOK OFF FROM						-	
INSTRUCTIONAL FLT. AFTER TAKEOFF, THE ACFT						-,	
A STINSON 108-2, N232C, WAS RETURNING TO THE							
HAVE BEEN FLYING TOWARD THE SUN. SUBSEQUENT	LY, THE TWO ACET CON	NVERGED & CULLID	IED VROOL 1 WT	NURIH U	THE ARPI.		

File No. - 524 2/19/89 GLEN FALLS,NY A/C Reg. No. N1DQ Time (Lc1) - 1600 EST

Occurrence #1 MIDAIR COLLISION
Phase of Operation CLIMB - TO CRUISE

Finding(s)

1. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND(CFI)

2. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND(CFI)

3. LIGHT CONDITION - SUNGLARE

4. VISUAL LOOKOUT - INADEQUATE - PILOT OF OTHER AIRCRAFT

5. VISUAL/AURAL PERCEPTION - PILOT OF OTHER AIRCRAFT

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: FAILURE OF BOTH PILOTS TO SEE AND AVOID EACH OTHER. RELATED FACTORS WERE: FAILURE OF THE BEECH AIRCREW TO MAKE A NORMAL LEFT TURN OUT OF TRAFFIC AND THE STINSON PILOT'S VISUAL PERCEPTION DUE TO SUNGLARE.

----Probable Cause----

File No 524 2/19/89 GLEN	FALLS,NY	A/C Reg.	No. N232C	T 	ime (Lcl) -	1600 ES	Γ
-Basic Information Type Operating Certificate-NONE (GENERA	AL AVIATION)	Aircraft Da DESTROYED	mage	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL		Fire	Crew		0	0	0
Flight Conducted Under -14 CFR 91		NONE	Pass	3	Ō	Ō	0
Accident Occurred During -APPROACH			Other	2	Ō	0	Ō
-Aircraft Information							
Make/Model - STINSON 108-2	Eng Make/	Model - FRANKL	IN 6A4-165-B3	ELT	Installed/A	ctivated	- YES/N
Landing Gear - TAILWHEEL-ALL FIXED	Number Er	igines - 1		S	tall Warnir	g System	- NO
Max Gross Wt - 2400	Engine Ty	pe - RECIPR	OCATING-CARBURE	ETOR			
No. of Seats - 4	Rated Pow	er - 165	HP				
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - FSS	Last Depar	ture Point			RPORT/STŔIP		
Method - ACFT RADIO	GLEN FAL				, -		
Completeness - WEATHER NOT PERTINEN		•		Airport D	ata		
Basic Weather - VMC	LOCAL				COUNTY		
Wind Dir/Speed- 280/008 KTS						N/A	
Visibility - 20.0 SM	ATC/Airspace	i		,	Lth/Wid -		
Lowest Sky/Clouds - 4000 FT SCA			NF	,	Surface -	•	
Lowest Ceiling - NONE		earance - NO		,	Status -	•	
Obstructions to Vision- NONE		Lndg - NO		Ranway	Statas	147.5	
Precipitation - NONE	Type Apolly	Ling No	142				
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 47	Med	ical Certifica	te - VALID	MEDICAL-NO	WAIVERS,	/LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight	Review	Fligh	nt Time (H	ours)		
COMMERCIAL	Current		Total -	969	Last 24	Hrs -	1
SE LAND, ME LAND	Months Since	· - 4	Make/Model-	661	Last 30	Days-	6
	Aircraft Typ		Instrument-	3	Last 90	Days-	8
	,.		Multi-Eng -	20		•	
Table 2004 Dating (a)			-				
Instrument Rating(s) - AIRPLANE							
-Narrative CREW OF BEECH A36, N1DG, TOOK OFF FROM RITUCTIONAL FLT. AFTER TAKEOFF, THE ACFT WATTINSON 108-2, N232C, WAS RETURNING TO THE	AS OBSERVED TO TUR ARPT FROM THE NOR	N RIGHT & BEGI THEAST. FROM T	N CLIMBING. AT	ABOUT THA	T SAME TIME ON WOULD	,	

File No. - 524 2/19/89 GLEN FALLS,NY A/C Reg. No. N232C Time (Lc1) - 1600 EST

Occurrence #1 MIDAIR COLLISION
Phase of Operation APPROACH

Finding(s)

1. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT OF OTHER AIRCRAFT

2. LIGHT CONDITION - SUNGLARE

3. VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

4. VISUAL/AURAL PERCEPTION - PILOT IN COMMAND

5. VISUAL LOOKOUT - INADEQUATE - PILOT OF OTHER AIRCRAFT

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 BOTH PILOTS TO SEE-AND-AVOID EACH OTHER. RELATED FACTORS WERE: FAILURE OF THE BEECH AIRCREW TO MAKE A NORMAL LEFT TURN OUT OF TRAFFIC AND THE STINSON PILOT'S VISUAL PERCEPTION DUE TO SUNGLARE.

Basic Information Type Operating Certificate-NONE (GENERA)	_ AVIATION) Aircraft	Damage		Injurie	25	
Type operating out throate none (achema	SUBSTAN		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	1
Accident Occurred During -Landing						
Aircraft Information						,
Make/Model - CESSNA 150G	Eng Make/Model - CON	TINENTAL 0-200-A		Installed/Act		
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1600	Number Engines - 1 Engine Type - REC	TDDOCATING CADDID		tall Warning	System	- YES
No. of Seats - 2	3	100 HP	ETUK			
	rated rowel					
Environment/Operations Information						
Weather Data	Itinerary		Airport ON AIR	Proximity		
Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Last Departure Point SAME AS ACC/INC		UN AIR	PURT		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL		HUDSON			
Wind Dir/Speed- 090/003 KTS			Runway	Ident - 2	2 1	
Visibility - 25.0 SM	ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds - CLEAR	Type of Flight Plan -			Surface - A		
Lowest Ceiling - NONE	Type of Clearance -		Runway	Status - D)RY	
Obstructions to Vision- NONE Precipitation - NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 60	Medical Certifica	te - VALID	MEDICAL-WAIV	/ERS/LIM	IIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review	Flia	ht Time (H	ours)		
PRIVATE	Current - YES	Total - Make/Model- Instrument- U	272	Last 24 F	irs -	0
SE LAND	Months Since - 8	Make/Model-	138	Last 30 D	ays-	5
	Aircraft Type - C-150L	Instrument- U Multi-Eng -	NK/NR	Last 90 E Rotorcraf	ays-	5 0
		Multi-Eng -	O	KOTOPCPAT	ι ~	U
Instrument Rating(s) - NONE						
PLT RPRTD THAT SHORTLY AFTER TOUCHDOWN, T	HE ACFT STARTED TO TRACK TO	THE LEFT SIDE OF	THE RWY. H	E STATED THAT	-	
PPLIED RIGHT RUDDER & BRAKE, BUT THIS HAD						
PROP HIT THE RWY & THE ACFT CONTD OFF THE	LEFT SIDE INTO GRASS. AFTER	THE ACDNT, THE W	HEEL & PAR	T OF THE STRU		
THE RIGHT MAIN GEAR WERE FOUND IN THE CE	NTER OF THE RWY. THE OWNER S	AID THE STRUT FAI	LED THRU A	BOLT HOLE &		

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

-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Airc	raft Damage		Injur	ies	
	SUE	STANTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire		• • •	0	0	1
Flight Conducted Under -14 CFR 91	NON	IE Pas	ss O	0	1	2
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - CESSNA 172N		LYCOMING 0-320-H2AD		Installed/A		
Landing Gear - TRICYCLE-FIXED	Number Engines -			itall Warnin	g System	- YES
Max Gross Wt - 2300		RECIPROCATING-CARBU	JRETOR			
No. of Seats - 4	Rated Power -	150 HP				
-Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFI			OFF A	RPORT/STRIP		
Method - N/A	NIAGARA FALLS,N	IY				
Completeness - N/A	Destination		Airport [ata		
Basic Weather - VMC	AKRON, NY					
Wind Dir/Speed- 240/014 KTS	. — - 1				N/A	
Visibility - 15.0 SM	ATC/Airspace			/ Lth/Wid -		
Lowest Sky/Clouds - 12000 FT SC				Surface -	• .	
Lowest Ceiling - 25000 FT BR			Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch/Lndg	- FORCED LANDING				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						
Pilot-In-Command	Age - 22	Medical Certific			WAIVERS/	LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review	F1.	ight Time (H			
PRIVATE	Current - YES	Total -		Last 24		1
SE LAND	Months Since - 10	Make/Model- 52 Instrument-	3	Last 30 Last 90	Days-	9
	Aircraft Type - C-1	52, Instrument-	3	Last 90	Days-	22
Instrument Rating(s) - NONE						
-Narrative						
AIRCRAFT ENGINE STARTED TO RUN ROUGH DU	RING A PLEASURE FLIGHT OVE	R NIAGARA FALLS, NY	, AND THE PI	LOT LANDED		
	AIRPORT. THE NOSE WHEEL S					
A WHEAT FIELD SHORT OF THE NIAGARA FALLS						

File No. - 538 6/18/89 NIAGARA FALLS, NY A/C Reg. No. N52HR Time (Lcl) - 1318 EDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. LUBRICATING SYSTEM, OIL QUICKDRAIN/DRAIN PLUG - NOT SECURED 2. MAINTENANCE, OVERHAUL, MAJOR - INADEQUATE - OTHER MAINTENANCE PSNL 3. LUBRICATING SYSTEM, OIL QUICKDRAIN/DRAIN PLUG - LOSS, TOTAL 4. FLUID, OIL - LOSS, TOTAL Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 NOSE OVER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 5. TERRAIN CONDITION - SOFT ----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:
ENGINE FAILURE DUE TO DIL STARVATION AND COLLISION WITH TERRAIN DURING THE FORCED LANDING. THE DIL STARVATION WAS
CAUSED BY THE DIL LEAKING OUT OF THE DRAIN BECAUSE MAINTENANCE PERSONNEL FAILED TO INSTALL THE DRAIN PLUG.

File No 526 7/01/89 ELMIR	A,NY A/C F	Reg. No. N2746H	ד	ime (Lcl) -	· 1645 EDT	-
Basic Information						
Type Operating Certificate-NONE (GENERA		ft Damage		Injur		
To the off Occupations	SUBSTA		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crev	_	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -MANEUVERING	NONE	Pass	0	0	0	0
						
Aircraft Information						
Make/Model - SCHWEIZER 1-26	Eng Make/Model - N,			Installed/A		
Landing Gear - SKID	Number Engines - N		S	tall Warnir	ng System	- NO
Max Gross Wt - 700	Engine Type - N,					
No. of Seats - 1	Rated Power - N,	/ A 				
Environment/Operations Information						
Weather Data	Itinerary		Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		t	OFF AI	RPORT/STRIF	>	
Method - N/A	ELMIRA,NY					
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 320/010 KTS					- N/A	
Visibility - 15.0 SM	ATC/Airspace	NONE		Lth/Wid -		
Lowest Sky/Clouds - CLEAR Lowest Ceiling -	Type of Flight Plan Type of Clearance			Surface - Status -		
Obstructions to Vision- NONE	Type of Crearance Type Apch/Lndg		Runway	Status	· N/A	
Precipitation - NONE	Type Apcil/ Elidg	5 TRAIGHT IN				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	Age - 28	Medical Certifica	+0 - VALTE	MEDICAL -NO	. WATVEDS	'
Certificate(s)/Rating(s)	Biennial Flight Review		ght Time (F		WAIVERS/	CIMI I
COMMERCIAL	Current - YES	Total -	050	1 04	Hrs -	3
	Months Since - 8		190	Last 30	Days-	30
GLIDER	Aircraft Type - 2-33	Instrument-	0	Last 90	Days-	34
Instrument Rating(s) - NONE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
 Narrative						
PILOT OF THE SCHWEIZER GLIDER WAS PARTICI	PATING IN A GLIDER MEET AND	WHILE ATTEMPTING	TO GET BAC	K TO THE		
ORT HE EXPERIENCED A DOWN DRAFT WHICH CAL					?PT	
ING THE PILOT SAID THAT HE HIT A POLE WHI						

File No 5	26 7/01/89		A/C Reg. No.	N2746H	Time (Lcl) - 1645 EDT
Occurrence #1 Phase of Operation		RN TO LANDING AREA	A (EMERGENCY)		
Finding(s) 1. WEATHER CONDITI	ON - UNFAVORABLE W	IND			
Occurrence #2 Phase of Operation			A (EMERGENCY)		
Finding(s) 2. OBJECT - POLE					
Occurrence #3 Phase of Operation			WATER		
Probable Cause					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: AN INADVERTENT ENCOUNTER WITH A DOWNDRAFT.

File No 540 7/02/89 F	ISHERS,NY 	A/C Reg. No. N173	1K 	Time (Lcl)	- 1645 EDI	. .
-Basic Information Type Operating Certificate-NONE (GE		rcraft Damage SUBSTANTIAL	Fatal		ries Minor	None
Type of Operation -PERSONAL	Fi	ire	Crew O	0	0	1
Flight Conducted Under -14 CFR 9	1 N	IONE	Pass 0	0	0	2
Accident Occurred During -TAKEOFF						
-Aircraft Information						
Make/Model - CESSNA 185	Eng Make/Model	- CONTINENTAL IO	-520-D-24 EL	Γ Installed/	Activated	- YES/YE
Landing Gear - AMPHIBIAN	Number Engines	s - 1		Stall Warni	ng System	- YES
Max Gross Wt - 3350	Engine Type	- RECIP-FUEL INJ	ECTED			
No. of Seats - 4	Rated Power	- 300 HP				
-Environment/Operations Information	_					
Weather Data	Itinerary		Airpor:	t Proximity		
Wx Briefing - NWS	Last Departure	Point	ON A	[RPORT		
Method - UNK/NR	SAME AS ACC/I	NC		•		
Completeness - UNK/NR	Destination		Airport	Data		
Basic Weather - VMC	SAME AS ACC/I	NC				
Wind Dir/Speed- 340/005 KTS					- UNK/NR	
Visibility - 25.0 SM	ATC/Airspace			ay Lth/Wid		30
Lowest Sky/Clouds - CLEAR	Type of Flight		Runwa	ay Surface	- GRASS/TL	JRF
Lowest Ceiling - NONE	Type of Clearar		Runwa	ay Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
-Personnel Information						,
Pilot-In-Command	Age - 45		tificate - VAL		O WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Revie	≥ W	Flight Time			_
PRIVATE	Biennial Flight Revie Current - Y Months Since - 1	LS Total	- 2173		4 Hrs -	0
SE LAND, SE SEA	Months Since - 1	Make/Mod	del- 503			9
:	Aircraft Type - C	C-185F Instrume	ent- 258	Last 9	O Days-	31
Instrument Rating(s) - AIRPLAN	E					
-Narrative ING TAKEOFF ROLL FROM A GRASS STRIP TH	E DILOT OF A CECCNA 40E FL	OAT DIANE EELT A	CLITMMV AND AROU	OTED TAKEOUS		
N THE WEIGHT CAME DOWN ON THE FRONT WH						
					TIE	
UND CAUSING THE AIRCRAFT TO FLIP OVER.	THE ACET HAD ELOWAL ADDOC	C LIDE CTMCE THETAL	LATION OF THE	ELOATO		

File No. - 540 7/02/89 FISHERS,NY A/C Reg. No. N1731R Time (Lcl) - 1645 EDT

Occurrence #1 MISCELLANEOUS/OTHER
Phase of Operation TAKEOFF - GROUND RUN

Finding(s)

1. LANDING GEAR, FLOAT ASSEMBLY - VIBRATION
2. PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation TAKEOFF - ABORTED

Finding(s)

3. LANDING GEAR - FAILURE, PARTIAL
4. TERRAIN CONDITION - GRASS

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
LOSS OF CONTROL DURING AN ABORTED TAKEOFF DUE TO IMPROPER FLOAT OPERATION ABORTED TAKEOFF PROCEDURE ON TERRA FIRMA,
AS OPPOSED TO THE MORE LOGICAL ENVIRONMENT OF WATER, THE INTENDED ELEMENT FOR THE DESIGN HARDWARE.

----Probable Cause----

File No 541 7/02/89	ONEIDA, NY	A/C Reg. No.	A/C Reg. No. N4953B Time (Lc1) - 1250 EDT				
-Basic Information Type Operating Certificate-NON	E (GENERAL AVIATION)	Aircraft Damage	e		Injur		
		SUBSTANTIAL		Fatal		Minor	None
21	SONAL	Fire	Crew	0	0	0	1
Flight Conducted Under -14		NONE	Pass	0	0	0	0
Accident Occurred During -LAN	DING						
-Aircraft Information							
Make/Model - CESSNA 152		$^\prime$ Model - LYCOMING ()-235-L2C		[nstalled/A		
Landing Gear - TRICYCLE-FIXED		ngines - 1			tall Warnin	ng System	- YES
Max Gross Wt - 1675	Engine Ty		FING-CARBURET	OR			
No. of Seats - 2	Rated Pov	ver - 110 HP					
-Environment/Operations Informati	on					,-	
Weather Data	Itinerary			Airport F	Proximity		
Wx Briefing - UNK/NR		rture Point		ON AIRF	PORT		
Method - UNK/NR	UTICA, N	(
Completeness - UNK/NR	Destination	٦	A	irport Da	ata		
Basic Weather - VMC	LOCAL			ONEIDA	CO.		
Wind Dir/Speed- 280/005 KTS				Runway	Ident -	. 33	•
Visibility - 20.0 SM	ATC/Airspace	e		Runway	Lth/Wid -	6001/	150
Lowest Sky/Clouds - CLEA	R Type of F1	light Plan - NONE		Runway	Surface -	ASPHALT	
Lowest Ceiling - UNK/	NR Type of Ci	learance - NONE		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/	Lndg - TRAFF)	IC PATTERN				
Precipitation - NONE							
Condition of Light - DAYL	IGHT						
-Personnel Information							
Pilot-In-Command	Age - 34	Medical	l Certificate			WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight		Flight	: Time (Ho			
STUDENT	Current	- N/A Tot	tal -			Hrs - UN	IK/NR
	Months Since		ke/Model-		Last 30		5
	Aircraft Typ	pe - N/A Ins	strument-				8
Instrument Rating(s) - NO	NF						
This is different Rating(s)							
-Narrative							
SNA 152 ENCOUNTERED A CHANGE IN D	IRECTION OF WIND DURING AN	APPROACH TO LAND	AT ONEIDA CO	UNTY AIRF	ORT AND CO	LLIDED	
H THE RUNWAY. THE PILOT SAID THAT	THE WIND CHANGE CAUSED HE	ER TO FLARE TOO SOO	ON AND THE AT	RCRAFT BA	ALLOONED AN	ID	
POISED, EVEN THOUGH THE THROTTLE	HAD BEEN PUSHED IN, THE RE	ESPONSE WAS TOO LAT	TE TO RECOVER	AND MAIN	NTAIN CONTR	OL.	
,	· · · · · · · · · · · · · · · · · · ·						

File No. - 541 7/02/89

ONEIDA, NY

A/C Reg. No. N4953B

Time (Lc1) - 1250 EDT

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION GUSTS
- 2. FLARE PREMATURE PILOT IN COMMAND
- 3. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 5. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF DIRECTIONAL CONTROL DURING LANDING DUE TO WIND CHANGE. THE AIRCRAFT LANDED HARD ON THE RUNWAY DUE TO IMPROPER FLARE BY THE PILOT AND A DELAYED RESPONSE TO THE BALLOONING OF THE ACFT.

⁻⁻⁻⁻Probable Cause----

File No 449 2/17/89 WILM	INGTON, OH	A/C Reg. N	No. N739US	Т	ime (Lcl) -	1215 EST	•
Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Dan SUBSTANTIAL	-	Fatal		Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		Fire NONE	Crew Pass	0	0	1	0
Aircraft Information							
Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Er	/pe - RECIPRO	CATING-CARBUR	S	Installed/A tall Warnin		
-Environment/Operations Information							
Weather Data Wx Briefing - FSS Method - ACFT RADIO	Itinerary Last Depar SEYMOUR			Airport ON AIR	Proximity PORT		
Completeness - WEATHER NOT PERTINEN Basic Weather - VMC Wind Dir/Speed- VARIABLE/020 KTS	T Destination LOCAL	ח			ata N COUNTY Ident -	02	
Visibility - 12.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 25000 FT OVE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	RCAST Type of C	light Plan - NON	NE	Runway Runway	Lth/Wid - Surface - Status -	3500/ ASPHALT	25
-Personnel Information	4.5	M = .1.			MEDICAL NO	HATVEDG	(L TAATT
Pilot-In-Command Certificate(s)/Rating(s)	Age - 49 Biennial Flight		ical Certifica Flio	ht Time (F		WAIVERS/	LIMII
PRIVATE	Current	- YES	Total -	537	Last 24	Hrs - UN	IK/NR
SE LAND HELICOPTER	Months Since Aircraft Typ	e - 4 be - C-172	Make/Model- Instrument-	343 3		Days- UN Days- UN aft -	
Instrument Rating(s) - NONE							
-Narrative PILOT RPRTD THAT AS HE STARTED FLARING T UATION, BUT THE ACFT CONTINUED DRIFTING T TLED TO THE FROZEN GROUND, HIT A SMALL TR ID WAS VARIABLE AT 20 KTS. ABOUT 30 MI NOR	O LAND, THE ACFT E O THE RIGHT TOWARD EE ON THE EAST SID	BEGAN DRIFTING T D A DITCH. HE IN DE OF THE RWY &	TO THE RIGHT. NITIATED A GO- WAS DAMAGED.	HE TRIED T AROUND, BU THE PLT ES	O CORRECT T T THE ACFT TIMATED THE	HE	

2/17/89 WILMINGTON, OH A/C Reg. No. N739US Time (Lcl) - 1215 EST File No. - 449

IN FLIGHT COLLISION WITH OBJECT

Phase of Operation LANDING - ABORTED

Finding(s)

- 1. WEATHER CONDITION UNFAVORABLE WIND
- 2. WEATHER CONDITION CROSSWIND
- 3. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 4. PROPER ALIGNMENT NOT MAINTAINED PILOT IN COMMAND
- 5. ABORTED LANDING DELAYED PILOT IN COMMAND

Occurrence #2 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: THE FAILURE OF THE PILOT TO ADEQUATELY COMPENSATE FOR WIND CONDITIONS, TO MAINTAIN PROPER RUNWAY ALIGNMENT, AND HIS DELAY IN ABORTING THE LANDING. CONTRIBUTING FACTORS WERE: VARIABLE CROSSWIND CONDITIONS AND A SMALL TREE.

File No 479 2/19/89 WA	YNESVILLE,OH A/C Re	g. No. N8510L 		ime (Lc1) -	· 1615 ESI	
Basic Information Type Operating Certificate-NONE (GEN				Injur		
T	SUBSTAN		Fatal			None
Type of Operation -GLIDER TO Flight Conducted Under -14 CFR 91		Crew Pass	0	0	0	1 O
Accident Occurred During -LANDING		Pass	•	· ·		
Aircraft Information						
Make/Model - PIPER PA-25-235	Eng Make/Model - LYC	OMING 0-540-B2C5		Installed/		
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines - 1			tall Warnir	ng System	- YES
Max Gross Wt - 2900		IPROCATING-CARBURE	IUR			
No. of Seats - 1	Rated Power -	235 HP 				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEF			ON AIR	PORT		
Method - N/A Completeness - N/A	SAME AS ACC/INC		4 i nn n n n + D			
Basic Weather - VMC	Destination LOCAL		Airport D	ata CREEK GLI	EDDODT	
Wind Dir/Speed- CALM	LOCAL				· 09	
Visibility - 15.0 SM	ATC/Airspace			Lth/Wid -		200
Lowest Sky/Clouds - UNK/NR	Type of Flight Plan -	NONE		Surface -		
	VERCAST Type of Clearance -				- WET	
Obstructions to Vision- NONE	Type Apch/Lndg -	TRAFFIC PATTERN				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 46	Medical Certificat	e - VALID	MEDICAL-WA	AIVERS/LIM	1IT
Certificate(s)/Rating(s)	Biennial Flight Review	Fligh	nt Time (H			
PRIVATE	Current - YES	Total -		Last 24		2
SE LAND, ME LAND	Months Since - 15 Aircraft Type - PA-23	Make/Model-				14
GLIDER	Aircraft Type - PA-23	Instrument-		Last 90	Days-	29
		Multi-Eng -	181			
Instrument Rating(s) - AIRPLANE						
Narrative						
E PLT RPRTD HE HAD MADE SEVERAL GLIDER TO	OW FLTS FROM THE GRASS STRIP. W	HICH INITIALLY WAS	FROZEN.	ON THE LAST	2 FLTS.	
TOOK OFF TO THE WEST & LANDED TO THE EAS						
DNG" LANDING & THE ACFT TOUCHED DOWN PAST						
AKING WAS INEFFECTIVE. THE ACFT CONTD OF	F THE END OF THE RWY & WENT THR	U 2 FENCES BEFORE	STOPPING.	AT THE TIM	1E OF	
E ACDNT, THE FROZEN GROUND HAD JUST STAR						

File No. - 479 2/19/89 WAYNESVILLE, OH A/C Reg. No. N8510L Time (Lcl) - 1615 EST Occurrence #1 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 1. TOUCHDOWN - DELAYED - PILOT IN COMMAND 2. DISTANCE - MISJUDGED - PILOT IN COMMAND 3. TERRAIN CONDITION - FROZEN 4. TERRAIN CONDITION - WET 5. GO-AROUND - NOT PERFORMED - PILOT IN COMMAND Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 6. OBJECT - FENCE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DELAYED HIS LANDING/TOUCHDOWN, MISJUDGED THE DISTANCE OF THE REMAINING RUNWAY AND DID NOT GO AROUND. THE SLICK/THAWING RUNWAY CONDITIONS AND THE FENCES WERE CONTRIBUTING FACTORS.

File No 511 2/21/89 TIPP	CITY,OH A/C Reg	. No. N1139X	Time (Lcl) -	0024 EST	
Type of OperationPERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -DESCENT	L AVIATION) Aircraft DESTROYE Fire NONE		Injuri tal Serious O 1 O 1		
Aircraft Information Make/Model - PIPER PA-28R-200 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2650 No. of Seats - 4	Eng Make/Model - LYCC Number Engines - 1 Engine Type - RECI Rated Power - 2	P-FUEL INJECTED	ELT Installed/Ac Stall Warning		10
Environment/Operations Information Weather Data Wx Briefing - COMMERCIAL WX SERVICE Method - IN PERSON Completeness - PARTIAL,LMTD BY PILOT Basic Weather - IMC Wind Dir/Speed- 170/007 KTS Visibility - 1.000 SM Lowest Sky/Clouds - UNK/NR Lowest Ceiling - 200 FT OVER Obstructions to Vision- FOG Precipitation - DRIZZLE Condition of Light - NIGHT(DARK)	SOMERSET,PA Destination HARRISON,OH ATC/Airspace Type of Flight Plan -	O Airp CI RI R R NONE R IFR R	port Proximity FF AIRPORT/STRIP ort Data OX-DAYTON INTERNA unway Ident - unway Lth/Wid - unway Surface - unway Status -	24 9500/ 150 DIRT	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND		Total - 1250	me (Hours) Last 24 Last 30	Hrs - UNK/NR Days- UNK/NR	
Instrument Rating(s) - AIRPLANE					
PIC HAD NOT FLOWN FOR 10 YRS. BOUGHT ACFT & F CHECKED WX & NOTED LOW CEILINGS AT DESTINATIO REQUESTED VOR APPROACH. ACFT NOT EQUIPPED FOR CHECKED FOR CORRECT OPERATION. PIC FLEW IN IM AND ILS. FUEL WAS EVENTUALLY EXHAUSTED & ACFT	N. PIC FLEW TO DESTINATION TE APPROACH. ACFT ALSO NOT IFR C ABOUT TWO HOURS, EXECUTING	RMINAL AREA, OBTAINED CERTIFIED & NAV INSTR SEVEN UNSUCCESSFUL AP	WX FROM ATC & UMENTS WERE NOT	С,	

Eilo No - 5					
	11 2/21/89	TIPP CITY,OH	A/C Reg.	No. N1139X	Time (Lc1) - 0024 EST
Occurrence #1 Phase of Operation		ITER WITH WEATHER			
5. COMM/NAV EQUIPM 6. FLIGHT INTO KI 7. COMM/NAV EQUIPM 8. MAINTENANCE,II 9. PROCEDURES/DIREC 10. FLIGHT TO ALTER	ON - FOG DOR - PILOT IN COM ENCE IN PERSONAL A ENT, LOCALIZER RECE NOWN ADVERSE WEATH ENT, GLIDE SLOPE RE NSPECTION OF AIRCR CTIVES - DISREGARD NATE DESTINATION -	BILITY - PILOT IN COMMIVER - UNRELIABLE BER - INTENTIONAL - PIL CEIVER - UNRELIABLE AFT - DISREGARDED - PIL ED - PILOT IN COMMAND NOT USED - PILOT IN C	OT IN COMMAND		
Occurrence #2	LOSS OF ENGINE P	OWER(TOTAL) - NON-MECH UTER MARKER TO THRESHO	IANICAL		
Finding(s) 11. FLUID,FUEL - EXI 12. IN-FLIGHT PLANN		ROPER - PILOT IN COMMA	.ND		
Occurrence #3 Phase of Operation	DESCENT - EMERGE				
Occurrence #4	IN FLIGHT COLLIS DESCENT - EMERGE	ION WITH TERRAIN/WATER	:		
hase of Operation					

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER PLANNING BY THE PILOT RESULTING IN FUEL EXHAUSTION. THE PILOTS LACK OF EQUIPMENT AND ABILITY TO HANDLE THE WEATHER SITUATION WAS IGNORED BY THE PILOT IN HIS PLANNING FOR THE FLIGHT.

File No 508 2/28/89 5			No. N2805S		ime (Lc1) -		
Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Da	mage		Injur	ies	
		SUBSTANTIA	L	Fatal	Serious	Minor	None
Type of Operation -PERSONAL		Fire	Crew		_	0	1
Flight Conducted Under -14 CFR S Accident Occurred During -LANDING	01	NONE	Pass	0	0	0	0
-Aircraft Information							
Make/Model - CESSNA 150G	Eng Make	/Model - CONTIN	ENTAL 0-200-A				
Landing Gear - TRICYCLE-FIXED		ngines - 1			tall Warnin	g System	ı - YES
Max Gross Wt - 1600		ype - RECIPR		ETOR			
No. of Seats - 2	Rated Po	wer - 100	HP 				
-Environment/Operations Information							
Weather Data Wx Briefing - UNK/NR	Itinerary	ntuna Daint		Airport F	,		
Method - UNK/NR	Last Depa SAME AS			OFF AIR	RPORT/STRIP		
Completeness - PARTIAL, LMTD BY F		•		Airport Da	+ 2		
Basic Weather - VMC	LOCAL	''		•	GENERAL SO	ITH	
Wind Dir/Speed- 260/013 KTS	2007.2				Ident -		
Visibility - 7.0 SM	ATC/Airspac	e			Lth/Wid -		60
Lowest Sky/Clouds - 4500 FT	SCATTERED Type of F	light Plan - NO	NE	Runway	Surface -	N/A	
	Type of C			Runway	Status -	N/A	
Obstructions to Vision- NONE	Type Apch	/Lndg - F0	RCED LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 38		ical Certifica			IVERS/LI	MIT
Certificate(s)/Rating(s) PRIVATE	Biennial Flight	Review	Fing.	nt Time (Ho	ours)	Upo - I	INIZ /NID
SE LAND	Months Sinc	- 1ES	Make/Model-	400	Last 24	Ars - U	INK/NK
SE LAIND	Aircraft Ty	- YES e - 4 pe - C-150	Instrument-	3	Last 30	Days- U	10
	All clure Ty	pc 0 130	Tris er dillerre	J	Last 50	Days	10
Instrument Rating(s) - NONE							
T WAS BEING FLOWN BY OWNER ON 1ST FLT AT REPLACEMENT. AUTO FUEL WAS BEING US FOUND IN FUEL, ENGINE WAS RUN ON TEST	SED WHICH WAS PUT IN . CELL, & CARB WAS FLO	ACFT ABOUT SIX OW CHECKED AFTE	WEEKS BEFORE A R ACCIDENT. PI	CCIDENT. NO C RPTED LON	CONTAMINATION OF TAXI TO	TAKE	
RWY PLUS DELAY DUE TO OTHER TRAFFIC. GAS. ICE PROBABILITY CHART SHOWED WX O NG CARB HEAT PRIOR TO TAKE OFF WHEN CO	COND CONDUCIVE TO CAR	B ICE WITH USE	DF AV GAS. FAA	AC 20-113			

File No 5	08 2/28/89	SPRINGBORO,OH	A/C Reg. No. N2805S	Time (Lcl) - 1650 EST
Occurrence #1 Phase of Operation			CHANICAL	
3. FLUID,FUEL GRAD 4. MATERIAL DE 5. INSUF 6. FUEL SYSTEM,CAR	INSUFFICIENT - FA E - IMPROPER FECT(INADEQUATE QU FICIENT STANDARDS/ BURETOR - ICE	A(ORGANIZATION) ALITY CONTROL) - PIL	.OT IN COMMAND ON/OPERATOR - FAA(ORGANIZATION)	
Occurrence #2 Phase of Operation		NCY 		
Occurrence #3 Phase of Operation		ION WITH OBJECT		
Finding(s) 8. OBJECT - TREE(S)			
Probable Cause			the Probable Cause(s) of this accid	

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF POWER (TAKEOFF) FROM CARBURETOR ICE DUE TO IMPROPER USE OF CARBURETOR HEAT DURING EXTENDED GROUND OPERATION USING AUTO FUEL IN WEATHER WHICH WAS CONDUCIVE TO ICING.

File No 600 3/11/	89 DELAWARE,OH	A/C Reg. No.	N443JA	Time (Lcl) -	1205 EST	
Basic Information Type Operating Certificate-N Type of Operation -P Flight Conducted Under -1 Accident Occurred During -D	ERSONAL 4 CFR 91	Aircraft Damage DESTROYED Fire ON GROUND	Fatal Crew 1 Pass 1	Injuri Serious O O	es Minor O	None O O
	E SCEINT					
Aircraft Information Make/Model - ALEXANDER RV Landing Gear - TAILWHEEL-AL Max Gross Wt - 1600 No. of Seats - 2	L FIXED Number Engine	e/Model - LYCOMING O Engines - 1 Type - RECIPROCAT ower - 150 HP	ING-CARBURETOR	Installed/Ac Stall Warning	System	- NO
Environment/Operations Informa Weather Data Wx Briefing - NO RECORD Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 200/010 KT Visibility - 15.0 S Lowest Sky/Clouds - UN Lowest Ceiling - NO Obstructions to Vision- NO Precipitation - NO Condition of Light - DA	Itinerary OF BRIEFING Last Dep SAME A Destinati LOCAL S M ATC/Airspa K/NR THIN BKN Type of NE Type of NE Type Apo NE	ice Flight Plan - NONE Clearance - NONE	Airport OFF A Airport DELAW Runwa Runwa Runwa	Proximity IRPORT/STRIP Data ARE MUNICIPAL	28 4100/ ASPHALT	75
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 63 Biennial Fligh Current Months Sir Aircraft I	nt Review - YES Tot nce - 8 Mak				
Instrument Rating(s) - Instrument Relation Backward Rolling And Pitching Down Conumediately From The Location of The Crash And Ensuing Fire. The Ai	SE TO FINAL FOR LANDING ON HE AIRCRAFT SUDDENLY ROLLE TINUED UNTIL THE AIRCRAFT HE IMPACT. THE TWO OCCUPAN	D TO A NOSE DOWN ATT DISAPPEARED BEHIND A ITS WERE FATALLY INJU	ITUDE OF APPROXIMAT CLUMP OF TREES. SM RED AND THE AIRCRAF	ELY 30 DEGREE OKE ROSE T DESTROYED B		<u>-</u>

File No 6	00 3/11/89 DE	LAWARE,OH	A/C Reg. No. N443JA	Time (Lc1) - 1205 EST
	LOSS OF CONTROL - IN DESCENT - UNCONTROLL			
2. ALTITUDE - NOT	L - NOT MAINTAINED - P MAINTAINED - PILOT IN G ADVERTENT - PILOT IN C	COMMAND		
	IN FLIGHT COLLISION N DESCENT - UNCONTROLL	•		
Finding(s) 4. TERRAIN CONDITI	DN - GROUND			
Probable Cause				
The National Transpo	rtation Safety Board de	etermines that the Pro	obable Cause(s) of this acci	ident was:

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT INADVERTENTLY LOST CONTROL OF THE AIRCRAFT WHICH RESULTED IN A STALL SPIN AND COLLISION WITH THE GROUND.

File No 450 4/12/89 XENIA,0	H A/C	Reg. No. N4898G	7	ime (Lcl) -	- 1635 ED	T
Basic Information Type Operating Certificate-NONE (GENERAL	SUBS	aft Damage TANTIAL	Fatal	Injur Serious	Minor	None
Type of Operation -AERIAL OBSERVA Flight Conducted Under -14 CFR 91 Accident Occurred During -APPROACH	TION Fire NONE	Cr Pa	_	0 0	0	2 0
-Aircraft Information						
Make/Model - CESSNA 172 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2307 No. of Seats - 4	Number Engines - Engine Type -	LYCOMING 0-320-H2A 1 RECIPROCATING-CARB 160 HP	Ş	Installed/Æ Stall Warnir		
Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 250/016 KTS Visibility - 15.0 SM Lowest Sky/Clouds - N/A Lowest Ceiling - 4500 FT BROKEN Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poi FRENCH LICK,IN Destination SAME AS ACC/INC ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	n - NONE	ON AIF Airport [GREEN Runway Runway Runway Runway	Data COUNTY / Ident - / Lth/Wid - / Surface -	- 25 - 3972/ - ASPHALT - DRY	
	ge - 60 iennial Flight Review Current - YES Months Since - 2 Aircraft Type - C-17	Total - Make/Model-	ight Time (F 3750 3000 32	Hours) Last 24 Last 30	AIVERS/LI 4 Hrs - L O Days- L O Days- L	INK/NR INK/NR
Instrument Rating(s) - AIRPLANE						
Narrative E PLT RPRTD THE ACFT ENCOUNTERED A DOWNDRAFT TRACT THE WING FLAPS TO REDUCE DRAG & MINIMIZ SO, TO AVOID A STEEP EMBANKMENT AT THE APCH E E ACFT CONTINUED TO SETTLE & SUBSEQUENTLY HIT E SLOPE. NEARBY AT DAYTON, OH, THE WIND WAS R	E THE SINK RATE, BUT TH ND OF THE RWY, THE PLT THE GROUND ABOUT 150 F	E FLAPS WERE RETRA TURNED THE ACFT SL T LEFT OF THE RWY	CTED TO THE IGHTLY TO TH & 5 FT BELOW	FULL UP POS HE LEFT. HOW	SITION. WEVER,	

File No. - 450 4/12/89 XENIA,OH A/C Reg. No. N4898G Time (Lcl) - 1635 EDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

1. WEATHER CONDITION - DOWNDRAFT

Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation APPROACH - VFR PATTERN - FINAL APPROACH

Finding(s)

2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND

3. RAISING OF FLAPS - IMPROPER - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S IMPROPER IN-FLIGHT PLANNING/DECISION AND IMPROPER USE OF THE FLAPS. CONTRIBUTING WAS THE DOWNDRAFT.

File No 438 6/23/89 M	MIDDLETOWN,OH A/C F	Reg. No. N1961P	Т	ime (Lcl) -	2030 EDT	
Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION) Aircra	t Damage		Injuri	es	
		NTIAL	Fatal	Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 9		Crew	-	0	1	0
Accident Occurred During -LANDING		Pass		0	1	0
Aircraft Information						
Make/Model - PIPER PA-18-150	Eng Make/Model - L					
Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 1016	Number Engines - Engine Type - Ri			tall Warning	System	- NO
No. of Seats - 2		150 HP	ETUR			
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIE Method - N/A	FING Last Departure Point MIDDLETOWN,OH		OFF AI	RPORT/STRIP		
Completeness - N/A	Destination		Airport D	ata		
Basic Weather - VMC	LOCAL					
Wind Dir/Speed- 210/004 KTS				Ident -		
	ATC/Airspace	NONE		Lth/Wid -		
Lowest Sky/Clouds - 25000 FT Lowest Ceiling - NONE	Type of Clearance			Surface - Status -		
Obstructions to Vision- HAZE	Type of Creamance Type Apch/Lndg		Runway	status -	N/ A	
Precipitation - NONE	, , p =, zg	, 0,,,025 2,,,,021,,10				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	A00 - 19	Medical Certifica	+ VALID	MEDICAL -NO	WATVEDS /	LIMIT
Certificate(s)/Rating(s)	Age – 18 Biennial Flight Review	Flic	ht Time (H		WAIVERS/	LIMITI
PRIVATE	Current - UNK/NE	Total -	113	125+ 24	Hrs -	1
SE LAND	Months Since - UNK/NF Aircraft Type - UNK/NF	Make/Model-	3	Last 30	Days-	5
	Aircraft Type - UNK/NF	? Instrument-	2	Last 90	Days-	15
Instrument Rating(s) - NONE						
Namativa						
Narrative E PLT RPRTD THAT DRG FLT AT 1500 FT, HE ONE OF THE OFF POSITIONS. THE ENG THEN						
ELD & ATTEMPTED TO RESTART THE ENG. HOW	VEVER. HE HAD DIFFICULTY MAINTA	NING SPEED DRG THE	EMERGENCY	APCH & ELFC	TED	
CONCENTRATE ON FLYING THE ACFT. WHEN H	HE LANDED IN A BARLEY FIELD, THE	WHEELS CONTACTED				
ER. THE PLT RPRTD HE HAD A TOTAL OF 3 H	HRS OF FLT TIME IN THIS MAKÉ & M	10DEL OF ACFT.				

File No. - 438 6/23/89 MIDDLETOWN,OH A/C Reg. No. N1961P Time (Lc1) - 2030 EDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. FLUID, FUEL - STARVATION 2. FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. EMERGENCY PROCEDURE - IMPROPER - PILOT IN COMMAND Occurrence #3 NOSE OVER Phase of Operation LANDING Finding(s) 5. TERRAIN CONDITION - CROP ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL STARVATION FROM IMPROPER MOVEMENT OF THE FUEL SELECTOR BY THE PILOT AND HIS IMPROPER USE OF EMERGENCY PROCEDURES DURING THE ATTEMPTED ENGINE RESTART. CONTRIBUTING FACTORS WERE THE PILOT'S LACK OF EXPERIENCE IN THIS TYPE OF AIRCRAFT AND THE TERRAIN CONDITION (BARLEY CROP).

Make/Model - CESSNA C172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2350 No. of Seats - 4 Engine Type - RECIPROCA Rated Power - 150 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 FT SCATTERED Lowest Ceiling - NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIPROCA Rated Power - 150 HP Lingine Type - RECIPROCA Number Engines - 1 Engine Type - RECIPROCA Number Engines - 1 Engine Type - RECIPROCA Number Engines - 1 Engine Type - RECIPROCA Rated Power - 150 HP Lingine Type - RECIPROCA Rated Power - 150 HP Logine Type - RECIPROCA Rated Power - 150 HP WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH Destination WADSWORTH, OH	Crew Pass	atal Seriou O O O O ELT Installe Stall War	O O O O O O O O O O O O O O O O O O O	- YES
Type of Operation -PERSONAL Fire Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING Aircraft Information Make/Model - CESSNA C172M Eng Make/Model - LYCOMING Landing Gear - TRICYCLE-FIXED Number Engines - 1 Engine Type - RECIPROCA Rated Power - 150 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A WADSWORTH, OH Destination Basic Weather - VMC WADSWORTH, OH WADSWORTH, OH WIND Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Obstructions to Vision- NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Type Apch/Lndg - TRAFF FULL Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review Current - YES To Months Since - 0 Maircraft Type - C-172M In	Crew Pass 0-320-E2D FING-CARBURETOR Air Air FI FI FI FI FI FI FI FI FI F	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	1 O - YES/NO - YES
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING Aircraft Information Make/Model - CESSNA C172M	Pass	ELT Installe Stall War Pront Proximit ON AIRPORT OORT Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic	o ed/Activated ening System Ey ARK - O3 d - 2360/ e - ASPHALT	O - YES/NO - YES
Accident Occurred During -LANDING -Aircraft Information Make/Model - CESSNA C172M	O-320-E2D FING-CARBURETOR Air Air F	ELT Installe Stall War Pport Proximit ON AIRPORT COORT Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic	ed/Activated ening System Ey ARK O3 O 2360/ O ASPHALT	- YES/NO - YES
Make/Model - CESSNA C172M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2350 No. of Seats - 4 Engine Type - RECIPROCA Rated Power - 150 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Eng Make/Model - LYCOMING Number Engines - 1 Engine Type - RECIPROCA Rated Power - 150 HP Lingine Type - RECIPROCA Rated Power - 150 HP Logine Type - Recipe	TING-CARBURETOR Air Air F F F F F F F F F F F F F	Stall War port Proximit ON AIRPORT OORT Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - O3 - 2360/ - ASPHALT	- YES
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2350 No. of Seats - 4 Rated Power - 150 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 FT SCATTERED Lowest Ceiling - NONE Obstructions to Vision- NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND Number Engines - 1 Engine Type - RECIPROCA Rated Power - 150 HP Engine Type - Recipe Tool HP Eng	TING-CARBURETOR Air Air F F F F F F F F F F F F F	Stall War port Proximit ON AIRPORT OORT Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - O3 - 2360/ - ASPHALT	- YES
Max Gross Wt - 2350 No. of Seats - 4 No. of Seats - 4 Rated Power - 150 HP -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 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 SE LAND Engine Type - RECIPROCA Rated Power - 150 HP Itinerary WADSWORTH, OH FUCK FUCK FUCK WADSWORTH, OH WADSWORTH OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH, OH WADSWORTH OH	FING-CARBURETOR Air Air Air F F F F F F F F F F F F F F F F F F F	rport Proximit DN AIRPORT Dort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - 03 d - 2360/ e - ASPHALT	
No. of Seats - 4 -Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM Lowest Sky/Clouds - 4000 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 SE LAND Rated Power - 150 HP Ra	Air Air N F F F F F F F F F F F F F F F F F F	rport Proximit ON AIRPORT Dort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - 03 1 - 2360/ 2 - ASPHALT	37
-Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A WADSWORTH, OH Completeness - N/A Destination Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type of Clearance - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To Months Since - O Ma Aircraft Type - C-172M In	Air Air Air I I I I I I I I I I	ON AIRPORT Dort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - 03 1 - 2360/ 2 - ASPHALT	37
Weather Data Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A WADSWORTH, OH Completeness - N/A Destination Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	Air Air F F F E IC PATTERN	ON AIRPORT Dort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - 03 1 - 2360/ 2 - ASPHALT	37
Wx Briefing - NO RECORD OF BRIEFING Last Departure Point Method - N/A WADSWORTH, OH Completeness - N/A Destination Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	Air Air F F F E IC PATTERN	ON AIRPORT Dort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	ARK - 03 1 - 2360/ 2 - ASPHALT	37
Method - N/A WADSWORTH, OH Completeness - N/A Destination Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	Air N F F F IC PATTERN	oort Data WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	- 03 d - 2360/ e - ASPHALT	37
Completeness - N/A Destination Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT	i F F F IC PATTERN	WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	- 03 d - 2360/ e - ASPHALT	37
Basic Weather - VMC WADSWORTH, OH Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE FULL Condition of Light - DAYLIGHT	i F F F IC PATTERN	WELTZIEN SKYPA Runway Ident Runway Lth/Wic Runway Surface	- 03 d - 2360/ e - ASPHALT	37
Wind Dir/Speed- 290/004 KTS Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	F F F IC PATTERN	Runway Ident Runway Lth/Wic Runway Surface	- 03 d - 2360/ e - ASPHALT	37
Visibility - 7.0 SM ATC/Airspace Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES TO SE LAND Months Since - O Ma Aircraft Type - C-172M In	F F IC PATTERN	Runway Lth/Wic Runway Surface	d - 2360/ e - ASPHALT	37
Lowest Sky/Clouds - 4000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	I IC PATTERN	Runway Surface	- ASPHALT	37
Lowest Ceiling - NONE Type of Clearance - NONE Obstructions to Vision- NONE Type Apch/Lndg - TRAFF Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	IC PATTERN			
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In		Runway Status	- טאץ	
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In				
Condition of Light - DAYLIGHT -Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	510P			
-Personnel Information Pilot-In-Command Age - 32 Medica Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In				
Pilot-In-Command Age - 32 Medical Certificate(s)/Rating(s) Biennial Flight Review Current - YES To Months Since - 0 Ma Aircraft Type - C-172M In				
Certificate(s)/Rating(s) Biennial Flight Review PRIVATE Current - YES To SE LAND Months Since - O Ma Aircraft Type - C-172M In	l Certificate -	VALID MEDICAL	-WATVEDS/LIM	MIT
PRIVATE Current - YES TO SE LAND Months Since - O Ma Aircraft Type - C-172M In	Fliab+ T	ima (Hauna)		
	tal - 16:	ille (ilouis) laci	+ 24 Hrs - 11N	NK /ND
	cal 100 ce/Model-	3 last	: 30 Days-	3
	strument-	1 Last	t 90 Days-	3
Instrument Rating(s) - NONE				
-Narrative				
LE ON A LOCAL FLIGHT FOR PURPOSE OF PRACTICING TAKEOFFS AND LANDINGS, THE PI				
UN TO SHIFT. AS A RESULT OF THIS OBSERVATION AND THE INCREASED CROSSWIND COM				
TIAL FLAPS ON THE NEXT LANDING. THE PILOT STATED THAT HE KNEW THAT HE WAS HI				
UGHT HE WOULD BE ABLE TO LAND AND SUCCESSFULLY STOP THE AIRCRAFT BEFORE THE			ADLE	
STOP THE AIRCRAFT ON THE RUNWAY; IT CONTINUED OFF THE DEPARTURE END, THROUGH ANKMENT INTO SOME TREES. THE PILOT HAD THREE HOURS OF TOTAL FLIGHT TIME IN T			VI I	
ANKMENT INTO SOME TREES. THE PILOT HAD THREE HOURS OF TOTAL FLIGHT TIME IN T L INSTRUCTION RECEIVED DURING AIRCRAFT FAMILIARIZATION/CHECK OUT AND BFR. TH	A GUARDRAIL AND			
RE DAYS PRIOR TO THE ACCIDENT.	A GUARDRAIL AND HAT MAKE AN MODI		,	

A/C Reg. No. N19950 Time (Lcl) - 1745 EDT File No. - 566 6/26/89 WADSWORTH, OH

Occurrence #1 OVERRUN

Phase of Operation LANDING - ROLL

Finding(s)

- 1. IN-FLIGHT PLANNING/DECISION INADEQUATE PILOT IN COMMAND
- 2. WEATHER CONDITION CROSSWIND
- 3. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 4. PROPER TOUCHDOWN POINT NOT ATTAINED PILOT IN COMMAND
- 5. LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT PILOT IN COMMAND

Occurrence #2 ON GROUND COLLISION WITH OBJECT

Phase of Operation LANDING - ROLL

Finding(s)

- 6. OBJECT WALL/BARRICADE
- 7. TERRAIN CONDITION DOWNHILL
- 8. TERRAIN CONDITION HIGH VEGETATION
- 9. OBJECT TREE(S)

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT'S POOR PLANNING/DECISION MAKING DURING THE APPROACH AND LANDING PHASE OF FLIGHT, WHICH RESULTED IN A LONG LANDING AND RUNWAY OVERRUN.

Aircraft Damage Injuries SUBSTANTIAL Fatal Serious Minor None Fire Crew O O O O 1 NONE Pass O O O O 1 NONE Pass O O O O 1 Make/Model - FRANKLIN 6A4165 ELT Installed/Activated - NO -1 where Engines - 1 Stall Warning System - UNK/I wine Type - RECIPROCATING-CARBURETOR ed Power - 145 HP
ber Engines - 1 Stall Warning System - UNK/I Jine Type - RECIPROCATING-CARBURETOR Led Power - 145 HP Leary Airport Proximity Departure Point ON AIRPORT RTLESVILLE, OK nation Airport Data ME AS ACC/INC FRANK PHILLIPS Runway Ident - 17
Départure Point ON AIRPORT RTLESVILLE,OK nation Airport Data ME AS ACC/INC FRANK PHILLIPS Runway Ident - 17
e of Flight Plan - NONE Runway Surface - ASPHALT e of Clearance - NONE Runway Status - DRY e Apch/Lndg - STRAIGHT-IN FORCED LANDING
42 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT light Review Flight Time (Hours) 1 - YES Total - 430 Last 24 Hrs - 6 1 Since - 1 Make/Model - 250 Last 30 Days - 0 1 Instrument - UNK/NR Last 90 Days - 25 1 Multi-Eng - UNK/NR Rotorcraft - UNK/NR
4: 4: 1 11

File No. - 580 6/02/89 A/C Reg. No. N47SV BARTLESVILLE, OK Time (Lcl) - 1930 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation CRUISE - NORMAL Finding(s) 1. ENGINE ASSEMBLY, CONNECTING ROD - FAILURE, TOTAL FORCED LANDING Occurrence #2 Phase of Operation DESCENT - EMERGENCY Occurrence #3 HARD LANDING Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 2. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - CONGESTED 3. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT OF OTHER AIRCRAFT 4. OBJECT - AIRCRAFT MOVING ON GROUND 5. PLANNED APPROACH - NOT POSSIBLE -6. VISUAL LOOKOUT - INADEQUATE - PILOT OF OTHER AIRCRAFT 7. LANDING GEAR, NOSE GEAR - COLLAPSED 8. MANEUVER - ABRUPT - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: TOTAL FAILURE OF THE ENGINE CONNECTING ROD.

Basic Information Type Operating Certificate-NONE (GENERAL	_ AVIATION)	Aircraf SUBSTA	t Damage		Fatal	Inju Serious	ries Minor	None
Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF	-	Fire NONE		Crew Pass	0	0 0	0 0	1 0
Aircraft Information								
Make/Model - PIPER PA-38-112 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1670 No. of Seats - 2	Number Er	ngines - 1 /pe - RE	COMING 0-235-L CIPROCATING-CA 112 HP		OR S	Installed/ tall Warni	ng System	- YES
Environment/Operations Information Weather Data Weather Data Weather Data Weather Data Weather Data	Itinerary Last Depar					Proximity		
Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/005 KTS Visibility - 10.0 SM	SAME AS Destination LOCAL ATC/Airspace	· •		Д	Runway Runway	RP FILED Ident Lth/Wid		55
Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type of Fi Type of Ci Type Apch/	earance				Surface Status	- ASPHALT - DRY	
Personnel Information	A		Madia l Canti			MEDICAL	O MATVEDO	/. TMTT
Pilot-In-Command Certificate(s)/Rating(s)	Age - 26 Biennial Flight	Review	Medical Certi		Time (H		O WAIVERS/	LTIMITI
STUDENT	Current Months Since Aircraft Typ		Total Make/Mode Instrumer	 el- nt-	16 16 O	Last 2 Last 3 Last 9	4 Hrs - O Days- O Days-	1 1 16
Instrument Rating(s) - NONE								
Instrument Rating(s) - NONE	RAN OFF THE LEFT	SIDE OF T	HE RUNWAY. THE	AIRPL	ANE STRU			

File No 5	75 7/13/89	GRANITE,OK	A/C Reg. No. N23414	Time (Lcl) - 1410 CDT
Occurrence #1 Phase of Operation				
		AINED - PILOT IN CO	MMAND	
Occurrence #2 Phase of Operation				
Finding(s) 4. OBJECT - FENCE		•		
Probable Cause				

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT DID NOT MAINTAIN DIRECTIONAL CONTROL.

File No 529 4/	14/89 YAMHILL,OR	A/C	Reg. No. N2990P	ד	ime (Lcl) -	1800 PDT	
Basic Information Type Operating Certificate	e-NONE (GENERAL AVI		aft Damage TANTIAL	Fatal	Injur Serious		None
Type of Operation Flight Conducted Under Accident Occurred During		Fire NONE	·	rew 0	0	0	1
Aircraft Information Make/Model - CONSOLIDA Landing Gear - AMPHIBIAN Max Gross Wt - 2675 No. of Seats - 4	TED (LAKE) LA-4	Eng Make/Model - I Number Engines - Engine Type - I Rated Power -	1 RECIP-FUEL INJECT	S	Installed/Ad Stall Warning		
Environment/Operations Info Weather Data		Itinerary			Proximity		
Lowest Sky/Clouds - Lowest Ceiling - Obstructions to Vision-	SM CLEAR 15000 FT OVERCAST NONE NONE	Last Departure Point EUGENE,OR Destination SAME AS ACC/INC ATC/Airspace Type of Flight Plant Type of Clearance Type Apch/Lndg	n - NONE - NONE - TRAFFIC PATTE	Runway Runway Runway	Data G M	GRAVEL	40
Personnel Information Pilot-In-Command Certificate(s)/Rating(s)	Age Rien	- 33 nial Flight Review	Medical Certif F	icate - VALIC light Time (F		WAIVERS/	LIMIT
PRIVATE SE LAND, SE SEA		Current - YES Months Since - 14 Aircraft Type - M20E	Total Make/Model	- 665	Last 24 Last 30	Days- Days-	5 20 35 1
Instrument Rating(s)							
Instrument Rating(s)Narrative HILE ON DOWNWIND FOR LANDING, ND RETRACTED THE LANDING GEAR. URN BACK TO THE AIRPORT DUE TO HE LANDING GEAR RETRACTED.	THE AIRPLANE ENCOUN WITH FULL POWER AP	TERED A SEVERE DOWNDI PLIED THE AIRPLANE CO	RAFT. THE PILOT O	PTED TO ABORT	THE LANDING		

File No. - 529 4/14/89 YAMHILL,OR A/C Reg. No. N2990P Time (Lc1) - 1800 PDT

Occurrence #1 IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation APPROACH - VFR PATTERN - DOWNWIND

Finding(s)

- 1. WEATHER CONDITION DOWNDRAFT
- 2. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 3. IN-FLIGHT PLANNING/DECISION POOR PILOT IN COMMAND

Occurrence #2 GEAR NOT EXTENDED

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

4. WHEELS UP LANDING - INTENTIONAL - PILOT IN COMMAND

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT DISPLAYED POOR INFLIGHT PLANNING AND PREPARATION FOR THE FLIGHT. THE PILOT DID NOT ADEQUATELY COMPENSATE FOR THE WIND CONDITIONS RESULTING IN AN INTENTIONAL GEAR UP LANDING.

-Basic Information Type Operating Certificate-NONE (G	ENERAL AVIATION) A	ircraft Damage			Ini	uries	
	·	DESTROYED		atal	Serious	Minor	None
Type of Operation -PERSONA Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFF		ire NONE	Crew Pass	0	0	0	1
-Aircraft Information							
Make/Model - PIPER PA-28-161 Landing Gear - TRICYCLE-FIXED	Eng Make/Mode Number Engine	1 - LYCOMING 0-320-	DЗG			I/Activated iing System	
Max Gross Wt - 2325		- RECIPROCATING-C	APRIDETOP	31	all warr	ing system	- 163
No. of Seats - 4	Rated Power	- 160 HP	ANDONETON				
-Environment/Operations Information							
Weather Data	Itinerary				roximity		
Wx Briefing - UNK/NR	Last Departure		(ON AIRF	PORT		
Method - UNK/NR Completeness - UNK/NR	DOYLESTOWN,P Destination	А	Ainr	oort Da	.+-		
Basic Weather - VMC	DOYLESTOWN, P	۸		PRIVATE			
Wind Dir/Speed- 300/010 KTS	50122310MV,1				Ident	- 07	
Visibility - 25.0 SM	ATC/Airspace					- 1900/	60
Lowest Sky/Clouds - UNK/NR	Type of Flight					- GRASS/T	URF
Lowest Ceiling -	Type of Cleara		t	Runway	Status	- DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				SOFT	
Precipitation - NONE Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 42	Medical Cert	ificate -	VALTD	MEDICAL -	WATVERS/LT	MIT
Certificate(s)/Rating(s)	Biennial Flight Revi		Flight T			MALVERO, EI	
PRIVATE		YES Total	_	-		24 Hrs -	2
SE LAND	Months Since -			ŝ	Last	30 Days-	4
	Aircraft Type -	C-152 Instrume	nt-	3	Last	90 Days-	21
Instrument Rating(s) - NONE							
ER ABORTING THREE PREVIOUS TAKEOFFS.	THE PILOT ATTEMPTED A FOUR	TH AND ALTHOUGH THE	AIRPLANE	LIFTED	OFF BEF	ORE	
FIELD, IT SETTLED BACK TO THE GROUND							
SHING INTO SEVERAL TREES AT THE END O							
JT FLYING TO THAT AIRSTRIP BECAUSE HE	HAD INSUFFICIENT INFORMAT	TON AROUT IT					

File No 5	34 4/23/89	DUSHORE, PA	A/C Reg. No. N2127J	Time (Lcl) - 1220 EST
Occurrence #1 Phase of Operation	OVERRUN TAKEOFF - ABORTE	D		
Finding(s) 1. WRONG RUNWAY - 2. WEATHER CONDITI		N COMMAND		
Occurrence #2 Phase of Operation	ON GROUND COLLIS TAKEOFF - ABORTE			
Finding(s) 3. OBJECT - TREE(S)			
Probable Cause	÷-			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: COLLISION WITH TREES DURING A REJECTED TAKEOFF FROM A PRIVATE TURF STRIP DUE TO THE PILOTS FAILURE TO TAKE ADVANTAGE OF THE EXISTING WIND.

Type of Operation -INSTRUCTIONAL Fire Crew 0 0 0 0 Flight Conducted Under -14 CFR 91 NONE Pass 0 0 0 0 Accident Occurred During -14 CFR 91 NONE Pass 0 0 0 0 0 0 Accident Occurred During -14 CFR 91 NONE Pass 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	File No 527 6/02/89	ERWINNA, PA A/C	Reg. No. N60812	T	ime (Lcl)	- 1600 ED	Г
-Accident Occurred During -LANDING Aircraft Information	Type Operating Certificate-NONE (Type of Operation -INSTRU	SUBSTA CTIONAL Fire	ANTIAL Crew	0	Serious O	Minor O	None 2
Make/Model - BOEING - STEARMAN A75N1			Pass	0	0	0	0
Landing Gear - TAILWHEEL-ALL FIXED Number Engines - 1 Max Gross Wt - 2717 Engine Type - RECIPROCATING-CARBURETOR No. of Seats - 2	-Aircraft Information						
Max Gross Wt - 2717 No. of Seats - 2 Rated Power - 220 HP Environment/Operations Information Weather Data Wax Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Visibility - 15.0 SM Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Lowest Sky/Clouds - 3000 FT SCATTERED Type of Clearance - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND, ME LAND Months Since - 12 Months Months Since - 12 Months Since - 12 Months Months Since - 12 Months Months Since - 12 Months Months Months Months Since - 12 Months Month							
No. of Seats - 2 Rated Power - 220 HP Environment/Operations Information Weather Data Itinerary Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC LOCAL Wind Dir/Speed- 010 Visibility - 15.0 SM Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - Type of Clearance - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Certificate(s)/Rating(s) SE LAND, ME LAND Months Since - 12 Make/Model - 1850 Matroport Data VANSANT Airport Proximity ON AIRPORT Airport Data VANSANT Runway Ident - 25 Runway Lth/Wid - 3058/ 120 Runway Surface - GRASS/TURF Runway Surface - GRASS/TURF Runway Status - DRY Type Apch/Lndg - TRAFFIC PATTERN Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) Counterent - YES Total - 3010 Last 24 Hrs - 6 Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11 Multi-Eng - 6 Instrument Rating(s) - AIRPLANE	•				tall Warnin	ng System	- NO
Environment/Operations Information Weather Data UNK/NR Ws Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - WMC Wind Dir/Speed- 010 Visibility - 15.0 SM Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Lowest Ceiling - Type of Clearance - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 SE LAND, ME LAND Months Since - 12 Make/Model - 1850 Minterport Data VANSANT Runway Ident - 25 Runway Lth/Wid - 3058 / 120 Runway Surface - GRASS/TURF Runway Status - DRY Runway Status - DRY Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Flight Time (Hours) Commerciate(s)/Rating(s) GLIDER Aircraft Type - C-152 Instrument Rating(s) - AIRPLANE Narrative STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING				ETOR			
Weather Data	No. of Seats - 2	Rated Power -	220 HP				
Wx Briefing - UNK/NR	· •						
Method - UNK/NR		•					
Completeness - UNK/NR Basic Weather - VMC			t	ON AIR	PORT		
Basic Weather - VMC							
Wind Dir/Speed- 010 Visibility - 15.0 SM ATC/Airspace				•			
Visibility - 15.0 SM ATC/Airspace Runway Lth/Wid - 3058/ 120 Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - TRAFFIC PATTERN Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND,ME LAND Months Since - 12 Make/Model- 1850 Last 30 Days- 46 GLIDER Aircraft Type - C-152 Instrument- 70 Last 90 Days- 11! Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		LOCAL		_			
Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - NONE Runway Surface - GRASS/TURF Lowest Ceiling - Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - TRAFFIC PATTERN Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - GOOD SELAND, ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 41 Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11 Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		170/1					400
Lowest Ceiling - Type of Clearance - NONE Runway Status - DRY Obstructions to Vision- NONE Type Apch/Lndg - TRAFFIC PATTERN Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - COMMERCIAL,CFI SE LAND, ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 44 GLIDER Months Since - 12 Make/Model - 1850 Last 30 Days - 44 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11 Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING			NONE				
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND,ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 48 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11! Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING							JKF
Precipitation - NONE Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND, ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 44 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11! Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING				Runway	Status	- DRI	
Condition of Light - DAYLIGHT Personnel Information Pilot-In-Command		Type Apch/Endg	- IRAFFIC PATIERN				
Personnel Information Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND,ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 49 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 119 Multi-Eng - 6 Instrument Rating(s) - AIRPLANENarrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		т					
Pilot-In-Command Age - 51 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT Certificate(s)/Rating(s) Biennial Flight Review Flight Time (Hours) COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND,ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 48 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 119 Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		' 					
Certificate(s)/Rating(s) Biennial Flight Review COMMERCIAL,CFI SE LAND,ME LAND Months Since - 12 GLIDER Aircraft Type - C-152 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		Acce E4	Madical Contifica	+- VAL TD	MEDICAL W	A T.//EDC / L TA	47.7
COMMERCIAL,CFI Current - YES Total - 3010 Last 24 Hrs - 6 SE LAND,ME LAND Months Since - 12 Make/Model - 1850 Last 30 Days - 48 GLIDER Aircraft Type - C-152 Instrument - 70 Last 90 Days - 11! Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		<u> </u>				AIVERS/LII	411
SE LAND, ME LAND Months Since - 12 Make/Model- 1850 Last 30 Days- 48 GLIDER Aircraft Type - C-152 Instrument- 70 Last 90 Days- 11! Multi-Eng - 6 Instrument Rating(s) - AIRPLANE					•	4 Hns -	6
GLIDER Aircraft Type - C-152 Instrument- 70 Last 90 Days- 11! Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING		Months Since - 12	Make/Model-				48
Multi-Eng - 6 Instrument Rating(s) - AIRPLANE Narrative E STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING			Instrument-	70	1251 30	Days-	
Instrument Rating(s) - AIRPLANE	GLIDER	Afficiant Type C 132			Last st	Juays	113
			Marci Eng	J			
STEARMAN PT-17 HAD LANDED AND WAS SLOWING DOWN TO CLEAR THE RUNWAY WHEN A GUST OF WIND LIFTED THE RIGHT WING	Instrument Rating(s) - AIRPL	ANE					
NT OFF THE RUNWAY TO THE LEFT AND DOWN AN INCLINE INTO TREES. THE STU PLT WAS NOT INJURED BUT THE UPPER WING	STEARMAN PT-17 HAD LANDED AND WAS STHE GROUND. THE INSTRUCTOR PILOT AT	TEMPTED TO GAIN CONTROL BY ADDING	G POWER AND LEFT BR	AKE BUT TH	E AIRCRAFT	NG	
APPED THE INSTRUCTOR PILOT UNTIL HELP ARRIVED.							

File No. - 527 6/02/89 ERWINNA, PA A/C Reg. No. N60812 Time (Lcl) - 1600 EDT Occurrence #1 LOSS OF CONTROL - ON GROUND Phase of Operation LANDING - ROLL Finding(s) 1. WEATHER CONDITION - GUSTS 2. COMPENSATION FOR WIND CONDITIONS - NOT MAINTAINED - DUAL STUDENT 3. GROUND LOOP/SWERVE - UNCONTROLLED - DUAL STUDENT 4. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI) Occurrence #2 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. 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: LOSS CONTROL AND COLLISION WITH TREES DUE TO FAILURE OF THE STUDENT PILOT TO COMPENSATE FOR THE WIND AND LACK OF SUPERVISION BY THE CFI.

File No 535 6/13/89 PITTS	BURGH,PA A/C Re	g. No. N3420Y	7	ime (Lcl) -	2030 ED	T
Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -INSTRUCTIONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTAN	TIAL Crew	_	Injur Serious O O	ies Minor O O	None 2 0
Aircraft Information Make/Model - CESSNA 180 Landing Gear - TAILWHEEL-ALL FIXED Max Gross Wt - 2800 No. of Seats - 4	Eng Make/Model - CON Number Engines - 1 Engine Type - REC Rated Power -		ETOR	Installed/A	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- 210/005 KTS Visibility - 6.0 SM Lowest Sky/Clouds - 1600 FT SCAT Lowest Ceiling - 2200 FT BROK Obstructions to Vision- HAZE Precipitation - NONE Condition of Light - DUSK	PITTSBURGH,PA Destination LOCAL ATC/Airspace TERED Type of Flight Plan -	IFR	Airport OFF Al Airport [ALLEGH Runway Runway Runway	Proximity :RPORT/STRIP)ata HENY CO.	28 6500/ CONCRET	150
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL,CFI SE LAND,ME LAND	Age - 36 Biennial Flight Review Current - YES Months Since - 1 Aircraft Type - UNK/NR	Total - Make/Model-	ht Time (H 2000 40 130		Hrs - Days-	MIT 5 100 210
Instrument Rating(s) - AIRPLANE						
Narrative HE PILOT HAD JUST COMPLETED A ILS APPROACH AN INWAY AT THE FIRST TAXIWAY AND LOST CONTROL (THE AIRCRAFT STILL IN THE AIR AND THE AIRC	OF THE AIRCRAFT. THE PILOT A	PPLIED EXCESSIVE				

File No. - 535 6/13/89 PITTSBURGH,PA A/C Reg. No. N3420Y Time (Lc1) - 2030 EDT

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

Finding(s)

1. AIRCRAFT CONTROL - NOT MAINTAINED - DUAL STUDENT
2. BRAKES(NORMAL) - IMPROPER USE OF - DUAL STUDENT
3. GROUND LOOP/SWERVE - EXCESSIVE - DUAL STUDENT
4. SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI)

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: LOSS OF CONTROL DURING LANDING ROLLOUT DUE TO EXCESSIVE APPLICATION OF BRAKES BY THE PILOT.

File No 542 7/23	8/89 EIGHTY	FOUR, PA	A/C Reg.	No. N91867	Т	ime (Lc1)	- 1615 ED	Γ
-Basic Information								
Type Operating Certificate-	NONE (GENERAL		ircraft Da				uries	
T	DEB00444		SUBSTANTIA		Fatal	Serious		None
	PERSONAL		ire	Crew	-	1	0	0
Flight Conducted Under - Accident Occurred During -	14 CFR 91	ſ	NONE	Pass	0	0	0	0
-Aircraft Information		,	,					
Make/Model - SCHWEIZER 1	-23	Eng Make/Mode					I/Activated	
Landing Gear - SKI/WHEEL		Number Engines			S	tall Warr	ing System	- NO
Max Gross Wt - 750			- N/A					
No. of Seats - 1		Rated Power	- N/A					
-Environment/Operations Inform	ation							
Weather Data		Itinerary			Airport	Proximity	,	
Wx Briefing - UNK/NR		Last Departure	Point		ON AIR	PORT		
Method - UNK/NR		EIGHTY-FOUR,	ΡΑ					
Completeness - UNK/NR		Destination			Airport D	ata		
Basic Weather - VMC		LOCAL			BANDEL			
Wind Dir/Speed- UNK/NR						Ident	- 18	
Visibility - 15.0	SM	ATC/Airspace					- 2095/	98
	LEAR	Type of Flight	Plan - NO	NF	•	Surface	- GRASS/T	
	INK/NR	Type of Cleara				Status		
Obstructions to Vision- N		Type Apch/Lndg				0 (4 (4)	2	
Precipitation - U		. ype wpeny znag		on to the End				
Condition of Light - D								
Pilot-In-Command		Age - 57	Med	lical Certifica	te - VALID	MEDICAL-	WAIVERS/LII	MIT
<pre>Certificate(s)/Rating(s)</pre>	1	Biennial Flight Revie	ew	Flig	ht Time (H	ours)		
PRIVATE		Current - '	/ES	Total -	165	Last	24 Hrs -	1
SE LAND		Months Since -	3		2	Last	30 Days-	4
GLIDER		Aircraft Type - 9	S-33		0	Last	90 Days-	10
Instrument Rating(s)	NONE							
OT MADE A POOR LANDING PATTERN	WITH EXCESSI	VE AIRSPEED. ON TOUCH	HDOWN THE	PILOT SAID THA	T HE OVER-	CONTROLLE	D	
GLIDER ALLOWING THE NOSE TO S								
DER BOUNCED AND GROUNDLOOPED.		53						

File No. - 542 7/23/89 EIGHTY FOUR, PA

A/C Reg. No. N91867

Time (Lcl) - 1615 EDT

Occurrence #1 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. AIRSPEED EXCESSIVE PILOT IN COMMAND
- 2. FLARE IMPROPER PILOT IN COMMAND
- 3. DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 4. RECOVERY FROM BOUNCED LANDING IMPROPER PILOT IN COMMAND
- 5. GROUND LOOP/SWERVE UNCONTROLLED -

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: POOR HANDLING OF THE GLIDER DURIG LANDING. THE PILOT OVER CORRECTED AND CAUSED THE NOSE TO STRIKE THE RUNWAY SURFACE. DIRECTIONAL CONTROL WAS LOST, RESULTING IN A GROUNDLOOP.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION)	Aircraft Dam	age	5-1-1	Injur		None
Type of Operation -PERSONAL		DESTROYED Fire	Crew		Serious O	Minor 1	None O
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0	4	0
Accident Occurred During -LANDING						· 	
Aircraft Information							
Make/Model - CESSNA T210		odel - CONTINE	NTAL TSIO-520		Installed/A		
Landing Gear - TRICYCLE-RETRACTABLE Max Gross Wt - 4000	Number Eng		WEL THUESTED	S	tall Warnin	g System	- YES
No. of Seats - 6	Rated Powe	e - RECIP-F r - 310					
Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - NO RECORD OF BRIEFING		ure Point			RPORT/STRIP		
Method - N/A	ISLIP,NY				,		
Completeness - N/A	Destination			Airport D	ata		
Basic Weather - VMC	NEWPORT,R	I			T STATE		
Wind Dir/Speed- 220/005 KTS						22	
Visibility - 20.0 SM	ATC/Airspace		_		Lth/Wid -		75
Lowest Sky/Clouds - CLEAR		ght Plan - NON			Surface -		
Lowest Ceiling - Obstructions to Vision- NONE	Type of Cie	arance - NON	FFIC PATTERN	Runway	Status -	DRY	
Precipitation - NONE	Type Apcil/ L		CED LANDING				
Condition of Light - DAYLIGHT		100	CLD LANDING				
Personnel Information							
Pilot-In-Command	Age - 48	Medi	cal Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	1IT
Centificate(s)/Rating(s)	Biennial Flight R			nt Time (F			
PRIVATE	Current	- YES	Total -	546	Last 24		0
SE LAND	Months Since	- 0 - C-210	Make/Model-	302	Last 30	Days-	8
	Aircraft Type	- C-210	Instrument-	151	Last 90	Days-	35
Instrument Rating(s) - AIRPLANE							
Narrative							
NG ATTEMPTED GO AROUND PILOT SAID THAT EN							
I LEFT TURN THE STALL WARNING HORN SOUNDED ENGINE DID NOT REVEAL ANY DISCREPANCIES.	SO HE LANDED IN A	NEARBY FARM F	TELD AND NOSE	UVER. A	IEST RUN OF		

File No. - 536 1/14/89 NEWPORT,RI A/C Reg. No. N6556A Time (Lc1) - UNK/NR

Cocurrence #1 LOSS OF CONTROL - IN FLIGHT
Phase of Operation GO-AROUND (VFR)

Finding(s)

1. AIRCRAFT PERFORMANCE,CLIMB CAPABILITY - EXCEEDED

2. GO-AROUND - ATTEMPTED - PILOT IN COMMAND

3. FLIGHT CONTROLS - IMPROPER USE OF - PILOT IN COMMAND

4. STALL - INADVERTENT - PILOT IN COMMAND

Cocurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

5. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LOSS OF CONTROL DURING AN ATTEMPTED GO-AROUND DUE TO RAISING THE FLAPS AT LOW AIRSPEED, IN A NOSE HIGH ATTITUDE.

-Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircrat	t Damage		Inju	ries	
Type of Operation -INSTRUCTIONA Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	SUBSTA L Fire	ANTIAL Crew Pass	-	Serious		None 2 0
-Aircraft Information Make/Model - CESSNA 182Q Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2950 No. of Seats - 2	Eng Make/Model - CC Number Engines Engine Type - RE Rated Power -	1 ECIPROCATING-CARBUR	S	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- LIGHT AND VARIABLE Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Poing GREENVILLE,SC Destination LOCAL ATC/Airspace Type of Flight Plan Type of Clearance Type Apch/Lndg	- NONE - NONE	ON AIR Airport D PICKEN Runway Runway Runway Runway Runway		- 5000/ - ASPHALT	100
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND	Age - 42 Biennial Flight Review Current - YES Months Since - O Aircraft Type - C-1820	Total - Make/Model- Q Instrument-	ht Time (H 711 4 139	ours)	4 Hrs - O Days-	MIT O 4 4
Instrument Rating(s) - AIRPLANE		Multi-Eng -				
INAITACTVE IVIL AIR PATROL AIRPLANE LANDED HARD WHILE EDIATELY AFTER TAKEOFF. THE PILOT, WHO WAS S FLIGHT, ALTHOUGH THE OTHER PILOT WAS AN ULATE A POWER LOSS. THE PIC LANDED ON THE AGE TO THE AIRFRAME.	OPERATING THE CONTROLS, WA	AS CONSIDERED THE P AFTER LIFT-OFF, THE	ILOT-IN-CO CFI REDUC	MMAND (PIC ED POWER T) ON C	

A/C Reg. No. N757MY Time (Lc1) - 0845 EST File No. - 443 3/18/89 PICKENS,SC

Occurrence #1 Phase of Operation LANDING

HARD LANDING

Finding(s)

- 1. EMERGENCY PROCEDURE SIMULATED -
- 2. FLARE IMPROPER PILOT IN COMMAND
- 3. SUPERVISION 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 AND INADEQUATE SUPERVISION OF THE FLIGHT BY THE OTHER CREW MEMBER.

Type Operating Certificate-NONE (GENERAL		ft Damage		Injur		
	DESTR		Fatal			None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire NONE	Crew Pass		0	0	1
Accident Occurred During -TAKEOFF	NONE	Pass	U	U	U	U
ircraft Information						
Make/Model - UPCHURCH ROTORWAY EXECU		OTORWAY RW 152/D		Installed/A		
Landing Gear - SKID Max Gross Wt - 1320	Number Engines -	1 ECIPROCATING-CARBUR		tall Warnin	g System ·	- NU
No. of Seats - 2		152 HP				
nvironment/Operations Information						
leather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poin	t	ON AIR	PORT		
Method - N/A Completeness - N/A	LUGOFF,SC Destination		Airport D	2+2		
Basic Weather - VMC	LOCAL		PRIVAT			
Wind Dir/Speed- CALMABLE	LOCAL				UNK/NR	
Visibility - 30.0 SM	ATC/Airspace			Lth/Wid -	UNK/NR	
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	Surface -	GRASS/TUI	RF
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- NONE				
Precipitation - NONE						
Condition of Light - DAYLIGHT						
	Age - 49	Medical Certifica			IVERS/LIM	IT
	Biennial Flight Review		ht Time (H			_
STUDENT	Current - N/A Months Since - N/A	Total -	21	Last 24	Hrs -	2 11
HELICOPTER	Aircraft Type - N/A	Make/Model- Instrument-	21	Last 30	Days-	16
HELICOFIER	Afficial Crype N/A	Tris tr differr	O	Rotorcr		21
Instrument Rating(s) - NONE						
larrative						
ILOT SAID HE LOST CONTROL OF THE AIRCRAF	T DURING AN ATTEMPTED TAKE	OFF TO A HOVER AS A	RESULT OF	THE LEET		

File No 5	07 3/25/89	LUGOFF,SC	A/C Reg. No. N70289	Time (Lc1) - 1100 EST
Occurrence #1 Phase of Operation	LOSS OF CONTROL TAKEOFF - INITIA			
Finding(s) 1. AIRCRAFT PREFLI 2. LANDING GEAR,SK				
Occurrence #2 Phase of Operation	ROLL OVER TAKEOFF - INITIA	L CLIMB		

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: IMPROPER EVALUATION OF EXISTING CONDITIONS DURING PREFLIGHT INSPECTION RESULTING IN A DYNAMIC ROLLOVER DUE TO DRAG FROM AN IMBEDDED LEFT SKID.

----Probable Cause----

Type Operating Certificate-NONE (Type Operating Certificate-NONE (Type of Operation -PERSON, Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFI Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	SUBSTAN' AL Fire 91 NONE F Eng Make/Model - LYCO Number Engines - 1 Engine Type - REC Rated Power - Itinerary	TIAL Crew Pass DMING 0-360-A3A IPROCATING-CARBUR 180 HP	ELT : SETOR Airport 6	Injuries Serious Mi O O Installed/Activ tall Warning Sy	inor None
Type of Operation -PERSON, Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFI Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A	SUBSTAN' AL Fire 91 NONE F	TIAL Crew Pass DMING 0-360-A3A IPROCATING-CARBUR 180 HP	O O ELT : SETOR	Serious Mi 0 0 0 Installed/Activ	inor None
Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFI Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	AL Fire 91 NONE F Eng Make/Model - LYCC Number Engines - 1 Engine Type - REC Rated Power - Itinerary IEFING Last Departure Point	Crew Pass DMING 0-360-A3A IPROCATING-CARBUR 180 HP	O O ELT : SETOR	O O Installed/Activ tall Warning Sy	0 1 0 2
Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFI Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	AL Fire 91 NONE F Eng Make/Model - LYCC Number Engines - 1 Engine Type - REC Rated Power - Itinerary IEFING Last Departure Point	Crew Pass DMING 0-360-A3A IPROCATING-CARBUR 180 HP	O ELT : S: ETOR	O Installed/Activ tall Warning Sy	0 2
Accident Occurred During -TAKEOF Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	Eng Make/Model - LYCO Number Engines - 1 Engine Type - REC Rated Power - Itinerary IEFING Last Departure Point	OMING 0-360-A3A IPROCATING-CARBUR 180 HP	ELT : SETOR	Installed/Activ tall Warning Sy	/ated - YES/N
Accident Occurred During -TAKEOF Aircraft Information Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	Eng Make/Model - LYCO Number Engines - 1 Engine Type - REC Rated Power - Itinerary IEFING Last Departure Point	OMING 0-360-A3A IPROCATING-CARBUR 180 HP	ELT : SETOR Airport F	tall Warning Sy	
Make/Model - PIPER PA-28-180 Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A	Eng Make/Model - LYCC Number Engines - 1 Engine Type - REC Rated Power Itinerary IEFING Last Departure Point	OMING 0-360-A3A IPROCATING-CARBUR 180 HP	ELT : SETOR Airport F	tall Warning Sy	
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2175 No. of Seats - 4 Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A	Number Engines - 1 Engine Type - REC Rated Power Itinerary IEFING Last Departure Point	IPROCATING-CARBUR 180 HP	STOR Airport F	tall Warning Sy	
Max Gross Wt - 2175 No. of Seats - 4Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A	Engine Type - REC Rated Power - 	IPROCATING-CARBUR 180 HP	STOR Airport F	tall Warning Sy	
Max Gross Wt - 2175 No. of Seats - 4Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BRI Method - N/A	Rated Power Itinerary IEFING Last Departure Point	180 HP	ETOR Airport f		
Environment/Operations Information- Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	Rated Power Itinerary IEFING Last Departure Point	180 HP	Airport f	Proximity	
Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	 Itinerary IEFING Last Departure Point			Proximity	
Weather Data Wx Briefing - NO RECORD OF BR Method - N/A	Itinerary IEFING Last Departure Point			Proximity	
Method - N/A	IEFING Last Départure Point				
Method - N/A	·		OLL AT	RPORT/STRIP	
·				, -	
Completeness - N/A	Destination		Airport Da	ata	
Basic Weather - VMC	GETTYSBURG, SD			E STRIP	
Wind Dir/Speed- 270/007 KTS	de i i i bond, 55			Ident - 36	
Visibility - 20.0 SM	ATC/Airspace			Lth/Wid - 17	700/ 60
	T SCATTERED Type of Flight Plan -	NONE		Surface - GRA	
Lowest Ceiling - NONE	Type of Clearance -	NONE		Status - DRY	
Obstructions to Vision- NONE		NONE	Kuriway	Status - DK1	
Precipitation - NONE	Type Apolly Lilidg	NONE			
Condition of Light - DAYLIGH	Т				
Personnel Information Pilot-In-Command	Age - 57	Medical Certifica	te - VALID	MEDICAL-WAIVER	RS/LIMIT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (Ho		.0, 22
PRIVATE	Current - YES	Total -		Last 24 Hrs	s - 0
SE LAND	Months Since - O Aircraft Type - PA-28	Make/Model-	388	Last 30 Day	/s- 9
JE EAND	Aircraft Type - PA-28	Instrument-	000	Last 90 Day	/s- 9
	Afficiant Type TA 28	Multi-Eng -	Ö	Last 30 Day Last 90 Day Rotorcraft	- 0
Instrument Rating(s) - NONE					
Narrative					
E PLT RPRTD THE ACFT SEEMED TO FUNCTION	ON NORMALLY DRG THE TAKEOFF ROLL;	HOWEVER, AFTER LI	FT-OFF, IT	WOULD NOT CLIM	1 B
OVE GROUND EFFECT. HE SAID IT JUST CLI	EARED LOW TREES APRX 300 TO 400 FT	FROM THE END OF	THE RWY, TH	HEN IT STALLED	
TO A FENCE. NO PREIMPACT PART FAILURE					'ING &
ERE WAS FROST ON THE ACFT. A MECHANIC					
PARTURE END OF THE RUNWAY, THE TERRAIN					CE
AVED THE DAY" AS THERE WERE SIGNIFICAT				= , =	
JAN AG MARKE WERE STURET	12030,100 22,02				

File No. - 458 4/14/89 MILBANK,SD A/C Reg. No. N8272W Time (Lc1) - 0752 CST

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

Finding(s)

1. ICE/FROST REMOVAL FROM AIRCRAFT - INADEQUATE - PILOT IN COMMAND
2. STALL/MUSH
3. OBJECT - FENCE

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FAILURE BY THE PILOT TO ASSURE ADEQUATE REMOVAL OF FROST FROM THE AIRCRAFT WHICH RESULTED IN A STALL/MUSH.

File No 452 2/18/89 C		A/C Reg. No. N8			me (Lc1) - 		
Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Damage			Injuri	es	
		SUBSTANTIAL	ı	atal	Serious	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 -LANDING							
Aircraft Information							
Make/Model - CESSNA 170B	Eng Make,	/Model - CONTINENTAL	0-300	ELT I	nstalled/Ac	tivated ·	- UNK/N
Landing Gear - TAILWHEEL-ALL FIXED	Number Er	ngines - 1			all Warning		
Max Gross Wt - 1100		ype - RECIPROCATIN	NG-CARBURETO	₹			
No. of Seats - 4	Rated Po	wer - 145 HP					
Environment/Operations Information	_						
Weather Data	Itinerary		A	irport P	roximity		
Wx Briefing - FSS	Last Depai	rture Point		OFF AIR	PORT/STRIP		
Method - TELEPHONE	JACKSBO	•					
Completeness - UNK/NR	Destination		Αiι	rport Da	ta		
Basic Weather - IMC	ROME, GA						
Wind Dir/Speed- 040/004 KTS						N/A	
Visibility - 2.000 SM	ATC/Airspace	e light Plan - NONE learance - NONE			Lth/Wid -		
Lowest Sky/Clouds - N/A	Type of F	light Plan - NONE			Surface -		
Lowest Ceiling - 800 FT	OVERCAST Type of C	learance - NONE			Status -	N/A	
Obstructions to Vision- FOG	Type Apch,	/Lndg - PRECAUTI	IONARY LANDII	NG			
Precipitation - RAIN Condition of Light - DAYLIGHT							
Personnel Information Pilot-In-Command	16	Modical (Contificato		MEDICALNO	WATVEDC/I	T NA T T
Certificate(s)/Rating(s)	Age - 46 Biennial Flight		Certificate · Flight ·			WAIVER5/I	TIMITI
COMMERCIAL	Current	VES Total	1 - 112°	1 IIIIE (1101	urs)	Una -	4
SE LAND		= 10 Make	/Model = 5/	7 S	Last 24	Dave=	60
GLIDER	Aircraft Typ	e - 10 Make/ oe - M20 Instr	nument-	3.1	Last 30	Days Days-	84
GEIDEN	Anciarcity	Multi	/Model- 50 rument- 8 i-Eng -	15	Rotorcra	ft -	19
Instrument Rating(s) - NONE							
Narrative PLT RPRTD HE OBTAINED A WX BRIEFING B	EFORE HIS INITIAL FL	T. EN ROUTE. HE LANDE	ED TO CHECK	THE WX A	GAIN. AFTER	THE	
TAKEOFF, WX WAS OBTAINED IN FLT FROM							
HE LOCAL AREA. EARLIER IN THE FLT, TH							
ENTERED A SNOW SHOWER & LOSS OF RPM							
ARBY ARPT; HOWEVER, THE RPM COULD NOT							
						,	
ACFT ENCOUNTERED SOFT TERRAIN & NOSED	OVER.						

File No. - 452 2/18/89 CLEVELAND, TN A/C Reg. No. N8032A Time (Lcl) - 1645 EST

Occurrence #1 LOSS OF ENGINE POWER(PARTIAL) - NON-MECHANICAL

Phase of Operation CRUISE - NORMAL

Finding(s)

- 1. FLIGHT INTO KNOWN ADVERSE WEATHER PERFORMED PILOT IN COMMAND
- 2. WEATHER CONDITION CARBURETOR ICING CONDITIONS
- 3. WEATHER CONDITION RAIN
- 4. WEATHER CONDITION SNOW
- 5. WEATHER CONDITION ICING CONDITIONS
- 6. FLIGHT TO ALTERNATE DESTINATION DELAYED PILOT IN COMMAND

Occurrence #2 NOSE OVER Phase of Operation LANDING - ROLL

Finding(s)

7. PRECAUTIONARY LANDING - PERFORMED -

8. TERRAIN CONDITION - SOFT

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FLIGHT INTO KNOWN ADVERSE WEATHER BY THE PILOT AND HIS DELAY IN DIVERTING TO AN ALTERNATE AIRPORT WHICH LED TO A PARTIAL POWER LOSS AND AN EMERGENCY LANDING. THE WEATHER CONDITIONS AND SOFT TERRAIN WERE CONTRIBUTING FACTORS.

File No 510 3/	/04/89 BLOUNT	VILLE,TN	A/C Reg.	No. N25524		Time (Lc1) - 2229 EST				
Basic Information										
Type Operating Certificat	te-NONE (GENERAL	. AVIATION)	Aircraft D	amage			uries			
T 0.0	05000111		SUBSTANTI		Fatal			None		
Type of Operation			Fire	Cre Pas		0		0		
Flight Conducted Under Accident Occurred During			NUNE	Pas	s 0	O	1	0		
Accident occurred buring										
Aircraft Information										
Make/Model - CESSNA 15		Eng Make/N	Model - LYCOM	ING 0-235-L2C	ELT		/Activated			
Landing Gear - TRICYCLE-		Number Eng	gines - 1			Stall Warn	ing System	- YES		
Max Gross Wt - 1670				ROCATING-CARBU	RETOR					
No. of Seats - 2		Rated Powe	er - 110							
Environment/Operations Info				,						
Weather Data		Itinerary			Airport	Proximity				
						IRPORT/STR				
Wx Briefing - NWS Method - ACFT RA	ADIO	BL OLINTVII				,				
Completeness - PARTIAL	L,LMTD BY PILOT	Destination			Airport	Data				
Dagia Waathan - VMC		ADTAICDON	, VA		TRI-C	ITY AIRPOR	T			
Wind Dir/Speed- 060/006 Visibility - 15.0	â KTS				Runwa	y Ident	- N/A			
Visibility - 15.0	SM	ATC/Airspace			Runwa	y Lth/Wid	- N/A			
Lowest Sky/Clouds -	2000 FT 2CATE	ERED Type of FI			Runwa	y Surface	- N/A			
Lowest Ceiling -	10000 FT BROKE	N Type of Cle	earance - N	ONE	Runwa	y Status	- N/A			
Obstructions to Vision-	- NONE	Type Apch/l	Lndg - Fi	ORCED LANDING						
Precipitation -	- NONE									
Condition of Light -	- NIGHT(DARK)									
Personnel Information										
Pilot-In-Command		Age - 31	Me	dical Certific	ate - VALI	D MEDICAL-	NO WAIVERS	'LIMIT		
Certificate(s)/Rating(s))	Age - 31 Biennial Flight A Current	Review	Fli	aht Time (Hours)				
COMMERCIAL, CFI		Current	- YES	Total -	417	Ĺast	24 Hrs -	5		
SE LAND, ME LAND		Months Since	- 10	Make/Model-	233	Last	30 Davs-	24		
, , , , , , , , , , , , , , , , , , , ,		Aircraft Type	e - C-172RG	Make/Model- Instrument-	90	Last	90 Days-	72		
				Multi-Eng -	20		•			
<pre>Instrument Rating(s)</pre>	- AIRPLANE									
Instrument Rating(s)	- AIRPLANE									
Narrative										
	MINUTES AFTER T	AKEOFF, HE WAS IN	N CRUISE FLT	AT 3,000 FT WH	EN HIS ENG	INE DEVELO				
Narrative E PLT REPORTED THAT ABOUT 10 SS AND BEGAN TO RUN ROUGH. AF	MINUTES AFTER T FTER EMERGENCY F	AKEOFF, HE WAS IN	N CRUISE FLT . INCLUDED APPL	AT 3,000 FT WH YING CARB HEAT	EN HIS ENG , THERE WA	INE DEVELO S A	PED A	·		
Narrative E PLT REPORTED THAT ABOUT 10 SS AND BEGAN TO RUN ROUGH. AF IGHT IMPROVEMENT IN ENGINE PE	MINUTES AFTER T FTER EMERGENCY F ERFORMANCE. SHOP	TAKEOFF, HE WAS IN PROCEDURES WHICH I RTLY, THE ENGINE (N CRUISE FLT INCLUDED APPL QUIT COMPLETE	AT 3,000 FT WH YING CARB HEAT LY AND THE PIL	EN HIS ENG , THERE WA OT WAS UNA	INE DEVELO S A BLE TO RET	PED A URN TO			
Narrative IE PLT REPORTED THAT ABOUT 10 SS AND BEGAN TO RUN ROUGH. AF IGHT IMPROVEMENT IN ENGINE PE IE DEPARTURE AIRPORT. DURING 1	MINUTES AFTER T FTER EMERGENCY F ERFORMANCE SHOF THE FORCED LANDI	AKEOFF, HE WAS IN PROCEDURES WHICH I RTLY, THE ENGINE (ING ATTEMPT, THE A	N CRUISE FLT INCLUDED APPL QUIT COMPLETE AIRPLANE COLL	AT 3,000 FT WH YING CARB HEAT LY AND THE PIL IDED WITH A UT	EN HIS ENG , THERE WA OT WAS UNA ILITY POLE	INE DEVELO S A BLE TO RET AND POWER	PED A URN TO LINE			
Narrative IE PLT REPORTED THAT ABOUT 10 SS AND BEGAN TO RUN ROUGH. AF IGHT IMPROVEMENT IN ENGINE PE IE DEPARTURE AIRPORT. DURING TO OR NEAR STALL SPEED. THE PIL	MINUTES AFTER T FTER EMERGENCY F ERFORMANCE SHOF THE FORCED LANDI LOT AND HIS PASS	AKEOFF, HE WAS IN PROCEDURES WHICH RTLY, THE ENGINE O ING ATTEMPT, THE A SENGER RECEIVED M	N CRUISE FLT INCLUDED APPL QUIT COMPLETE AIRPLANE COLL INOR INJURIES	AT 3,000 FT WH YING CARB HEAT LY AND THE PIL IDED WITH A UT . AFTER RECOVE	EN HIS ENG , THERE WA OT WAS UNA ILITY POLE RY OF THE	INE DEVELO S A BLE TO RET AND POWER AIRPLANE,	PED A URN TO LINE THE			
Narrative IE PLT REPORTED THAT ABOUT 10 SS AND BEGAN TO RUN ROUGH. AF IGHT IMPROVEMENT IN ENGINE PE IE DEPARTURE AIRPORT. DURING 1 OR NEAR STALL SPEED. THE PIL IGINE WAS STARTED AND OPERATEE	MINUTES AFTER T FTER EMERGENCY F ERFORMANCE. SHOF THE FORCED LANDI LOT AND HIS PASS D SATISFACTORILY	AKEOFF, HE WAS IN PROCEDURES WHICH RTLY, THE ENGINE O ING ATTEMPT, THE A SENGER RECEIVED M	N CRUISE FLT INCLUDED APPL QUIT COMPLETE AIRPLANE COLL INOR INJURIES	AT 3,000 FT WH YING CARB HEAT LY AND THE PIL IDED WITH A UT . AFTER RECOVE	EN HIS ENG , THERE WA OT WAS UNA ILITY POLE RY OF THE	INE DEVELO S A BLE TO RET AND POWER AIRPLANE,	PED A URN TO LINE THE			
	MINUTES AFTER T FTER EMERGENCY F ERFORMANCE. SHOF THE FORCED LANDI LOT AND HIS PASS D SATISFACTORILY	AKEOFF, HE WAS IN PROCEDURES WHICH RTLY, THE ENGINE O ING ATTEMPT, THE A SENGER RECEIVED M	N CRUISE FLT INCLUDED APPL QUIT COMPLETE AIRPLANE COLL INOR INJURIES	AT 3,000 FT WH YING CARB HEAT LY AND THE PIL IDED WITH A UT . AFTER RECOVE	EN HIS ENG , THERE WA OT WAS UNA ILITY POLE RY OF THE	INE DEVELO S A BLE TO RET AND POWER AIRPLANE,	PED A URN TO LINE THE			

3/04/89 A/C Reg. No. N25524 Time (Lcl) - 2229 EST File No. - 510 BLOUNTVILLE, TN Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. FUEL SYSTEM, CARBURETOR - ICE 2. CARBURETOR HEAT - DELAYED - PILOT IN COMMAND 3. WEATHER CONDITION - CARBURETOR ICING CONDITIONS Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 IN FLIGHT COLLISION WITH OBJECT Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. OBJECT - POLE 5. LIGHT CONDITION - DARK NIGHT ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: CARBURETOR ICE. THE PILOT FAILED TO APPLY CARBURETOR HEAT IN A TIMELY AND ADEQUATE MANNER. THIS FAILURE RESULTED IN THE ACCUMULATION OF ICE TO A POINT OF FAILURE OF THE ENGINE WHICH ELIMINATED THE HEAT NECESSARY TO REMOVE THE ICE.

File No 431 5/	19/89 EAST BERNA	ARD,TX A/C Re	g. No. N1722B	Т.	ime (Lc1) -	1500 CDT	
Basic Information Type Operating Certificate Type of Operation Flight Conducted Under Accident Occurred During	-AERIAL APPLICATION	DESTROY		ew O	Injur Serious O O	ies Minor 1 O	None 0 0
-Aircraft Information Make/Model - BOEING A79 Landing Gear - TAILWHEEL- Max Gross Wt - 3520 No. of Seats - 1		Eng Make/Model - P&W Number Engines - 1 Engine Type - REC Rated Power -	IPROCATING-CARBU		installed/Adall Warning		
Environment/Operations Information Weather Data Wx Briefing - NO RECOMENT N	RD OF BRIEFING KTS SM 3500 FT SCATTERED NONE NONE NONE	Itinerary Last Departure Point EAST BERNARD,TX Destination LOCAL ATC/Airspace D Type of Flight Plan - Type of Clearance Type Apch/Lndg	NONE NONE FORCED LANDING	Airport Da Runway Runway Runway	RPORT/STŔIP ata	N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s)Narrative TER THE PLT DEPARTED ON AN AEI NDING WAS MADE. HOWEVER, THE	Age Bien - NONE 	nnial Flight Review Current - YES Months Since - 1 Aircraft Type - C-150 LT, THE ENG LOST POWER. IN A MUDDY FIELD WITH A	Total - Make/Model- Instrument- Multi-Eng - CHEMICALS WERE U	ght Time (Ho 9745 6000 UNK/NR 125	Last 24 Last 30 Last 90 Rotorcr	Hrs - Days- UNI Days- aft - UNI CY ACFT	6

File No. - 431 5/19/89 EAST BERNARD, TX A/C Reg. No. N1722B Time (Lcl) - 1500 CDT LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE Finding(s) 1. MAINTENANCE, SERVICE OF AIRCRAFT - INADEQUATE -2. FLUID, FUEL - WATER 3. AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. LOAD JETTISON NOSE OVER Occurrence #3 Phase of Operation LANDING Finding(s) 5. WEATHER CONDITION - TAILWIND 6. TERRAIN CONDITION - SOFT 7. TERRAIN CONDITION - WET ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: WATER IN FUEL FROM IMPROPER SERVICING OF THE AIRCRAFT AND IMPROPER PREFLIGHT BY THE PILOT. THE TAILWIND & SOFT/WET TERRAIN WERE CONTRIBUTING FACTORS.

	T JO,TX A/	C Reg. No. N72279	Time (Lcl) - 1700 CDT			
-Basic Information Type Operating Certificate-NONE (GENER Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	·		Fatal O O	Injur Serious O O	Minor O O	None 1 2
Accident Occurred During -TAKEOFF						
-Aircraft Information Make/Model - CESSNA 206D Landing Gear - TRICYCLE-FIXED Max Gross Wt - 3600 No. of Seats - 6	Number Engines -	CONTINENTAL IO-520F 1 RECIP-FUEL INJECTED 300 HP		nstalled/A all Warnir		
-Environment/Operations Information						
Weather Data Wx Briefing - FSS Method - TELEPHONE	Itinerary Last Departure Po SAME AS ACC/INC		Airport F OFF AIR	Proximity RPORT/STRIF	•	
Completeness - UNK/NR Basic Weather - VMC	Destination BRECKENRIDGE,TX		Airport Da			
Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 7.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE	ATC/Airspace Type of Flight Pl Type of Clearance		Runway	Lth/Wid - Surface -	· N/A · N/A · GRASS/TUI · ROUGH	RF
Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Type Apch/Lndg	- NONE	a,			
Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 36 Biennial Flight Review Current - YES Months Since - 4 Aircraft Type - C-2	Total - Make/Model- 06 Instrument- UM	nt Time (Ho 300 150 NK/NR	ours) Last 24 Last 30 Last 90	I Hrs - UNI Days- UNI Days- UNI	K/NR K/NR K/NR
Instrument Rating(s) - NONE		Multi-Eng - UN	NK/NR	Rotorcr	aft -	0
-Narrative PILOT HAD LANDED THE AIRPLANE IN AN UNIM RAND ONE HALF HOURS UNTIL THE WEATHER CL E A TAKEOFF. DURING THE TAKEOFF ROLL, HE ER ABORTING THE TAKEOFF, HE MOVED THE AIR REN THE NOSEWHEEL TOUCHED, IT RAN THROUGH ERTED POSITION. THE PLT DID NOT FILE AN A	EARED. THE PILOT SAID HE CHANGED HIS MIND AND ABOR PLANE TO THE LEFT AND KEP A SERIES OF RUTS IN THE S	WALKED THE TERRAIN AND TED THE TAKEOFF AFTER T THE NOSEWHEEL OFF TH) HAD FELT THE AIRPLA HE GROUND A	IT WAS SAF INE WAS AIF IS LONG AS	E TO RBORNE. POSSIBLE.	

File No. - 579 5/27/89 SAINT JO,TX A/C Reg. No. N72279 Time (Lcl) - 1700 CDT

Occurrence #1 ON GROUND COLLISION WITH TERRAIN/WATER
Phase of Operation TAKEOFF - ABORTED

Finding(s)

1. TERRAIN CONDITION - ROUGH/UNEVEN
2. PREFLIGHT PLANNING/PREPARATION - IMPROPER - PILOT IN COMMAND

Occurrence #2 NOSE OVER
Phase of Operation TAKEOFF - ABORTED

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE PILOT'S DECISION TO ATTEMPT TO TAKEOFF FROM A FIELD THAT WAS NOT SUITABLE FOR SUCH PURPOSE.

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File No. - 578
                            5/29/89
                                                                A/C Reg. No. N17130 Time (Lcl) - 1230 CDT
                                       ONALASKA,TX
 ---Basic Information----
     Type Operating Certificate-NONE (GENERAL AVIATION)
                                                              Aircraft Damage
                                                                                                        Injuries
                                                                SUBSTANTIAL Fatal Serious Minor
     Type of Operation
                               -INSTRUCTIONAL
                                                              Fire
                                                                                    Crew O O O
                                                                                                                           1
                                                                                               0
                                                                                                         0
                                                                                                                    0
                                                               NONE
                                                                                                                             0
     Flight Conducted Under -14 CFR 91
                                                                                   Pass
     Accident Occurred During -LANDING
----Aircraft Information----
     Make/Model - CESSNA 150L
                                                  Eng Make/Model - CONTINENTAL 0-200A
                                                                                               ELT Installed/Activated - UNK/NR
                                                 Number Engines - 1 Stall Warning System - YES
Engine Type - RECIPROCATING-CARBURETOR
Rated Power - 100 HP
     Landing Gear - TRICYCLE-FIXED
     Max Gross Wt - 1600
     No. of Seats - 2
----Environment/Operations Information----
                                               Itinerary
   Weather Data
                     - FSS
                                                                                           Airport Proximity
                                                Last Departure Point
                                                                                           OFF AIRPORT/STRIP
     Wx Briefing
                   - TELEPHONE
                                                  CONROE.TX
       Method
                                              Destination
                                                                                        Airport Data
       Completeness - UNK/NR
     Basic Weather - VMC
                                                 CONROE, TX
       Wind Dir/Speed- 170/007 KTS
Visibility - 7.0 SM ATC/Airspace
                                                                                              Runway Ident - N/A
                                                                                              Runway Lth/Wid - N/A
       Lowest Sky/Clouds - 3000 FT SCATTERED Type of Flight Plan - VFR
                                                                                             Runway Surface - GRASS/TURF
       Lowest Ceiling - NONE Type of Clearance - VFR
Obstructions to Vision- HAZE Type Apch/Lndg - FORCED LANDING
                                                                                             Runway Status - DRY
       Precipitation - NONE
       Condition of Light - DAYLIGHT
----Personnel Information----
                                       Age - 40 Medical Certificate - VALID MEDICAL-WAIVERS/LIMIT
Biennial Flight Review Flight Time (Hours)
Current - N/A Total - 29 Last 24 Hrs - UNK/NR
Months Since - N/A Make/Model - 29 Last 30 Days - UNK/NR
Aircraft Type - N/A Instrument - 0 Last 90 Days - UNK/NR
Multi-Eng - 0 Rotorcraft - 0
    Pilot-In-Command
      Certificate(s)/Rating(s)
         STUDENT
         Instrument Rating(s) - NONE
----Narrative----
PRIOR TO THE FLIGHT, THE STUDENT PILOT AND HIS INSTRUCTOR DISCUSSED THE FACT THAT THE AIRPLANE WAS NOT FULL OF FUEL.
THE STUDENT SAID IT WAS HIS UNDERSTANDING THAT HE WOULD HAVE SUFFICIENT FUEL FOR THE SOLO CROSS-COUNTRY FLIGHT IF
THE FLIGHT WENT ACCORDING TO THE FLIGHT PLAN. THE STUDENT PILOT DID NOT INDICATE THERE WERE ANY PROBLEMS WITH THE
FLIGHT UNTIL HE NOTICED THE FUEL GAGES WERE ON EMPTY. THE STUDENT PILOT SAID HE HAD FLOWN TO THE TURNAROUND AIRPORT,
MADE A TOUCH-AND-CO LANDING, AND WAS ENROUTE HOME WHEN HE NOTICED THE FUEL GAGES WERE ON ZERO. HE HEADED FOR A NEARBY
AIRPORT BUT THE ENGINE STOPPED BEFORE HE MADE IT THERE. DURING THE LANDING ROLL OF THE FORCED LANDING, THE AIRPLANE
HIT A TREE STUMP AND WENT FORWARD TO THE INVERTED POSITION.
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File No. - 578 5/29/89 ONALASKA, TX A/C Reg. No. N17130 Time (Lc1) - 1230 CDT Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. SUPERVISION - INADEQUATE - FLIGHT INSTRUCTOR(ON GROUND) 2. FUEL CONSUMPTION CALCULATIONS - IMPROPER - PILOT IN COMMAND 3. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND 4. LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 5. OBJECT - OTHER 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 National Transportation Safety Board determines that the Probable Cause(s) of this accident was: FUEL SYSTEM EXHAUSTION DUE TO THE IMPROPER PLANNING/DECISION BY THE FLIGHT INSTRUCTOR, ON THE GROUND, PRIOR TO THE FLIGHT AND THE IMPROPER INFLIGHT PLANNING/DECISION BY THE STUDENT PILOT.

t Damage NTIAL Crew Pass RRETT TPE-331-43A RBOPROP 580 HP	S O ELT I St Airport F	0 0 Installed/Actall Warning	Minor O O tivated	
Crew Pass RRETT TPE-331-43A RBOPROP 580 HP	W O S O ELT I St	0 0 Installed/Actall Warning	0 0 tivated	O
RBOPROP 580 HP	St Airport F	tall Warning		
	Ainmant Da			
- NONE · NONE - FORCED LANDING	Runway Runway		N/A	
Flig Total - Make/Model- Instrument- U	ght Time (Ho 8600 3000 JNK/NR	ours) Last 24 H Last 30 [Last 90 [Hrs - Days- Days-	3 70 220
Multi-Eng -	140	Rotorcra	rt - UN	IK/NR
	Flig Total - Make/Model- Instrument- U Multi-Eng - AT THE AIR INTAKI	Flight Time (Ho Total - 8600 Make/Model- 3000 Instrument- UNK/NR Multi-Eng - 140 AT THE AIR INTAKE AREA. IMPA	Flight Time (Hours) Total - 8600 Last 24 Make/Model - 3000 Last 30 Instrument - UNK/NR Last 90 Multi-Eng - 140 Rotorcra	Total - 8600 Last 24 Hrs - Make/Model - 3000 Last 30 Days- Instrument - UNK/NR Last 90 Days- Multi-Eng - 140 Rotorcraft - UN AT THE AIR INTAKE AREA. IMPACT RESULTED IN DT MADE A FORCED LANDING INTO A PLANTED FIELD.

File No. - 430 6/01/89 LISSIE,TX A/C Reg. No. N6822Q Time (Lcl) - 1545 CDT Occurrence #1 IN FLIGHT COLLISION WITH OBJECT Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) OBJECT - BIRD(S) Occurrence #2 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF Phase of Operation MANEUVERING - AERIAL APPLICATION Finding(s) 2. COMPRESSOR ASSEMBLY - FOREIGN OBJECT DAMAGE Occurrence #3 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 3. LOAD JETTISON Occurrence #4 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 4. TERRAIN CONDITION - NONE SUITABLE 5. TERRAIN CONDITION - BERM

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was:
A BIRD STRIKE WHICH RESULTED IN FOREIGN OBJECT DAMAGE TO THE ENGINE COMPRESSOR. A BERM AND THE LACK OF SUITABLE TERRAIN
FOR A FORCED LANDING WERE CONTRIBUTING FACTORS.

File No 581 6/11/89 K	AUFMAN, IA 	A/C Reg. No. N2					
-Basic Information							
Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Damage			Injuri		
T		SUBSTANTIAL			Serious		None
Type of Operation -INSTRUCT		Fire			0	0	1
Flight Conducted Under -14 CFR 9 Accident Occurred During -LANDING	1	NONE	Pass	0	O	O	0
Accident occurred buring -LANDING							
-Aircraft Information							
Make/Model - CESSNA 152	Eng Make/Mod	lel - LYCOMING 0-2	35-L2C	ELT 1	nstalled/Ac	tivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engin	nes - 1		St	all Warning	System	- YES
Max Gross Wt - 1670	Engine Type	- RECIPROCATIN	G-CARBURE	TOR		-	
No. of Seats - 2	Rated Power	- 110 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport F	roximity		
Wx Briefing - NO RECORD OF BRIE	FING Last Départur	e Point		OFF AIR	RPORT/STRIP		
Method - N/A	ARLINGTON,T						
Completeness - N/A	Destination			Airport Da	ata		
Basic Weather - VMC	TYLER,TX						
Wind Dir/Speed- 180/012 KTS Visibility - 6.0 SM					Ident -		
Visibility - 6.0 SM	ATC/Airspace			Runway	Lth/Wid -	N/A	
Lowest Sky/Clouds - 3500 FT					Surface -		
Lowest Ceiling - NONE	Type of Clear			Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lnd	lg - FORCED L.	ANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information							
Pilot-In-Command	Age - 24	Medical C	ertificate	e - VALID	MEDICAL-NO	WAIVERS/	LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Rev	. •	Fligh	t Time (Ho	ours)	•	
STUDENT	Current -	N/A Total	-	47	Last 24	Hrs -	2
	Months Since -	N/A Make/	Model-	47	Last 30	Days-	9
	Aircraft Type -	N/A Make/I N/A Instr	ument-	1	Last 30 Last 90	Days-	9
	,,	Multi	-Eng -	0	Rotorcra	ft -	0
Instrument Rating(s) - NONE							
-Narrative							
STUDENT PILOT WAS SENT ON A SOLO CROS	S-COUNTRY FLIGHT WITH AN	I AIRPLANE THAT WA	S LESS TH	AN FULL. H	HE WAS TOLD	THAT	
ÁIRPLANE HAD BEEN FLOWN 1.5 HOURS SIN							
TY MINUTES BEFORE THE ENGINE STOPPED D	UE TO FUEL EXHAUSTION AN	ID MADE A FORCED L.	ANDING ON	A ROAD. [OURING THE L	ANDING	
THE ROAD, THE AIRPLANE RAN OFF THE SID							
	NT PILOT RECEIVED IT FOR	R HIS FLIGHT. HE W	AS ABLE TO			NGER	
BEEN FLOWN 2.5 HOURS BEFORE THE STUDE							
N NORMAL FOR THE AMOUNT OF FUEL HE STA	RTED WITH. THE STUDENT P						
	RTED WITH. THE STUDENT P					E	

File No. - 581 6/11/89 KAUFMAN, TX Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. FLUID, FUEL - EXHAUSTION 2. PLANNING-DECISION - IMPROPER - COMPANY/OPERATOR MGMT 3. BECAME LOST/DISORIENTED - INADVERTENT - PILOT IN COMMAND 4. LACK OF TOTAL EXPERIENCE - 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) 5. TERRAIN CONDITION - ROADWAY/HIGHWAY 6. TERRAIN CONDITION - DITCH Occurrence #4 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL Finding(s) 7. OBJECT - UTILITY POLE ----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: STUDENT PILOT INADVERTENTLY BECOMING LOST/DISORIENTED AND EXHAUSTING THE FUEL IN THE FUEL SYSTEM.

File No 576 6/2	26/89 CLEVEL	AND, TX	A/C Reg.	No. N601MF	Т	ime (Lc1) -	0300 CDT	•
Basic Information Type Operating Certificate Name of Carrier Type of Operation Flight Conducted Under Accident Occurred During	-CONROE AVIATI -NON SCHED,DOM -14 CFR 135		Aircraft Da SUBSTANTIA Fire NONE		-	Injur Serious O O	ries Minor 1 O	None O O
Aircraft Information Make/Model - PIPER PA-6 Landing Gear - TRICYCLE-R Max Gross Wt - 6000 No. of Seats - 2		Number En	•	NG IO-540 FUEL INJECTED HP		Installed/A tall Warnin		
Method - N/A Completeness - N/A Basic Weather - IMC Wind Dir/Speed- 120/020 Visibility - 10.0 Lowest Sky/Clouds -	RD OF BRIEFING KTS SM 1500 FT SCATT BROKEN NONE NONE	BATON RO Destination CONROE,T ATC/Airspace ERED Type of Fl Type of Cl Type Apch/	X ight Plan - If earance - If Lndg - FO	R R BRCED LANDING	OFF AI Airport D MUNICI Runway Runway Runway Runway	PAL Ident - Lth/Wid - Surface - Status -	N/A N/A GRASS/TU	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND, ME LAND Instrument Rating(s)		Age - 36 Biennial Flight Current Months Since Aircraft Typ	Med Review - YES - 11	lical Certifica	te - VALID ht Time (H 1624 30 243	MEDICAL-WA ours) Last 24 Last 30 Last 90	Hrs - Days-	4 78 322
Narrative AIRPLANE WAS ON A REGULAR NIGHT LOST POWER. THE PILOT DECLARED A AIRPORT BUT AIRPORT DID NOT HAVE SURGED AND THE PILOT MADE A FORC AIRPLANE HAD 23 GALLONS OF FUEL THE ACC HE DECIDED NOT TO CROSS	AN EMERGENCY AN E BEACON LIGHTE CED LANDING OFF IN RIGHT WING,	D SAID HE WAS RU D AND PILOT WAS THE AIRPORT IN 3 GALLONS IN FU	NNING OUT OF F LOW OVER AIRPO HEAVY UNDERBRU SELAGE TANK, A	UEL. ATC VECTO ORT BEFORE HE S USH AND ROUGH T NND ZERO FUEL I	RED AIRPLA AW IT. THE ERRAIN. IN N LEFT TAN	NE TO CLOSE N THE OTHER SPECTION RE	ST ENGINE VEALED	

File No. - 576 6/26/89 CLEVELAND, TX A/C Reg. No. N601MF Time (Lc1) - 0300 CDT Occurrence #1 LOSS OF ENGINE POWER Phase of Operation CRUISE - NORMAL Finding(s) 1. FLUID, FUEL - STARVATION 2. FUEL SUPPLY - MISJUDGED - PILOT IN COMMAND 3. PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Finding(s) 4. LIGHT CONDITION - DARK NIGHT 5. AIRPORT FACILITIES, AERONAUTICAL LIGHT BEACON(OBST) - UNAVAILABLE Occurrence #3 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation LANDING - FLARE/TOUCHDOWN Finding(s) 6. TERRAIN CONDITION - ROUGH/UNEVEN 7. TERRAIN CONDITION - HIGH VEGETATION ----Probable Cause----The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: A LOSS OF ENGINE POWER, DUE TO FUEL STARVATION BECAUSE THE PLT MISJUDGED HIS FUEL SUPPLY AND DISTRIBUTION OF FUEL PER TANKS, AND AS A RESULT MISMANAGED THE SUPPLY REMAINING.

File No 577 8/04/89 MCKIN	INEY,TX A/C	Reg. No. N4377L	T	ime (Lcl) -	2230 CDT	-
-Basic Information Type Operating Certificate-NONE (GENERAL Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91		aft Damage TANTIAL Crev Pass	-	Injur Serious O O	ies Minor O	None 1 3
Accident Occurred During -LANDING						
-Aircraft Information Make/Model - CESSNA 172G Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2300 No. of Seats - 4	Number Engines - Engine Type -	CONTINENTAL 0-300-D 1 RECIPROCATING-CARBUR 145 HP	RETOR	Installed/A tall Warnin	g System	- YES
-Environment/Operations Information Weather Data Wx Briefing - FSS Method - IN PERSON- Completeness - FULL Basic Weather - VMC Wind Dir/Speed- 160/012 KTS 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 Poi MCALESTER,OK Destination MESQUITE,TX ATC/Airspace Type of Flight Pla Type of Clearance Type Apch/Lndg	n - NONE	Airport OFF AI Airport D MUNICI Runway Runway Runway	Proximity RPORT/STRIP	N/A N/A N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 39 Biennial Flight Review Current - YES Months Since - 17 Aircraft Type - C-17	Make/Model-	ght Time (F 600 550	lours) Last 24 Last 30	Hrs - Days-	6 28 50
Instrument Rating(s) - NONE						
Narrative RING A NIGHT CROSS-COUNTRY FLIGHT, THE ENGI O THEN THE TERRAIN. DURING A PARTIAL TEARDO CKER ARM SHAFT HAD BROKEN. THERE WAS ALSO A	OWN OF THE ENGINE, IT WAS	FOUND THAT THE NUMBER	R 3 CYLIND	ER EXHAUST		

File No 5	77 8/04/89 MCKINNEY,TX	A/C Reg. No. N4377L	Time (Lc1) - 2230 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE POWER(PARTIAL) - ME CRUISE - NORMAL	ECH FAILURE/MALF	
Finding(s) 1. ENGINE ASSEMBLY	,ROCKER ARM/TAPPET - FAILURE,TOTAL		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGENCY		
Finding(s) 2. LIGHT CONDITION	- DARK NIGHT		
	IN FLIGHT COLLISION WITH OBJECT DESCENT - EMERGENCY		
Finding(s) 3. OBJECT - TREE(S)		
	IN FLIGHT COLLISION WITH TERRAIN/W DESCENT - UNCONTROLLED	VATER	
Probable Cause			
The National Transpo	rtation Safety Board determines that	t the Probable Cause(s) of this accide	ent was:

TOTAL FAILURE OF THE ENGINE ASSEMBLY/ROCKER ARM/TAPPET SHAFT.

File No 405 2/10/89	SAINT GEORGE,UT	A/C Reg.	No. N1010Z	Т	ime (Lcl) -	- 1725 MS	Т
Basic Information							
Type Operating Certificate-COMMUTE	ER	Aircraft [Injur		
		SUBSTANT		Fatal	Serious	Minor	None
Type of Operation -POSITIO		Fire		Crew O	0	0	2
Flight Conducted Under -14 CFR Accident Occurred During -TAKEOFF	:	NONE	F	ass 0	0	0	4
Aircraft Information							
Make/Model - SWEARINGEN SA226TC		Model - AIRES	SEARCH TPE-33		Installed/		
Landing Gear - TRICYCLE-RETRACTAE		gines - 2		S	tall Warnir	ng System	- YES
Max Gross Wt - 12500	Engine Ty						
No. of Seats - 19	Rated Pow	er - 94 	10 HP 				
Environment/Operations Information		3					
Weather Data	Itinerary			•	Proximity		
Wx Briefing - NWS	Last Depar			ON AIR	PORT		
Method - IN PERSON	SAME AS	•					
Completeness - FULL	Destination			Airport_D			
Basic Weather - VMC	PALM SPR	INGS,CA			GEORGE		
Wind Dir/Speed- CALM						- 16	
Visibility - 20.0 SM	ATC/Airspace			,	Lth/Wid -		100
	SCATTERED Type of F1				Surface -		
Lowest Ceiling - NONE		earance - 1		Runway	Status -	- DRY	
Obstructions to Vision- NONE	Type Apch/	Lnag - r	IONE				
Precipitation - NONE Condition of Light - DAYLIGHT	-						
Personnel Information	4.5.5	84.		`	MEDIOAL NO	D WATVERS	/. TMTT
Pilot-In-Command	Age - 40		edical Certif	icate - VALIC Ilight Time (H	MEDICAL-NU	J WAIVERS	/ LIMII
<pre>Certificate(s)/Rating(s) ATP</pre>	Biennial Flight Current			- 7282	Last 24	1 Una -	9
SE LAND, ME LAND	Months Since	- YES	Total Make/Model		Last 24 Last 30		55
SE LAND, ME LAND	Aircraft Typ		Instrument		Last 90		148
	Africiant Typ	e - 342201C	Multi-Eng			raft - Ui	
			Martimeng	1823	KUTUICI	art - O	NK/ NK
Instrument Rating(s) - AIRPLA	ANE						
RG THE TAKEOFF ROLL WITH THE COPLT AT 1	THE CTIS THE ACET REGA	N THENTNE TO	THE LEFT TH	IE CODIT CODDE	CTED WITH E	PGT	
JDDER, BUT AS THE TAKEOFF CONTD, THE AC							
		or o verificee,					
TOPPING, THE ACFT TURNED FURTHER LEFT 8		HECK REVEALED) IHAI WHEN E				
TOPPING, THE ACFT TURNED FURTHER LEFT & HE 1ST FLT AFTER MAINT ON THE NOSEWHEEL	. STEERING SYS. A SYS C						
TOPPING, THE ACFT TURNED FURTHER LEFT & HE 1ST FLT AFTER MAINT ON THE NOSEWHEEL PPLIED, THE NOSEWHEEL STEERING SYS WOUL	. STEERING SYS. A SYS C .D DEFLECT TO THE LEFT	AT A RATE OF	ABOUT ONE DE	GREE PER SECO	ND. INVEST	IGATION	
TOPPING, THE ACFT TURNED FURTHER LEFT & HE 1ST FLT AFTER MAINT ON THE NOSEWHEEL PPLIED, THE NOSEWHEEL STEERING SYS WOUL EVEALED THAT WHEN MAINT WAS PERFORMED,	. STEERING SYS. A SYS C .D DEFLECT TO THE LEFT A ONE-PIECE ARMING/POP	AT A RATE OF PET VLV WAS U	ABOUT ONE DE JSED TO REPLA	GREE PER SECO NCE A TWO-PIEC	ND. INVEST	IGATION CH WAS	
TOPPING, THE ACFT TURNED FURTHER LEFT 8 HE 1ST FLT AFTER MAINT ON THE NOSEWHEEL PPLIED, THE NOSEWHEEL STEERING SYS WOUL EVEALED THAT WHEN MAINT WAS PERFORMED, REVIOUSLY INSTALLED. DRG THE INSTLN, TH	. STEERING SYS. A SYS C .D DEFLECT TO THE LEFT A ONE-PIECE ARMING/POP HE SMALL PART OF THE TW	AT A RATE OF PET VLV WAS U D-PIECE VLV (ABOUT ONE DE JSED TO REPLA (ABT THE SIZE	EGREE PER SECO ACE A TWO-PIEC E OF A WASHER)	ND. INVESTI E VLV, WHIC WAS NOT RE	IGATION CH WAS EMOVED.	
TOPPING, THE ACFT TURNED FURTHER LEFT & HE 1ST FLT AFTER MAINT ON THE NOSEWHEEL PPLIED, THE NOSEWHEEL STEERING SYS WOUL	. STEERING SYS. A SYS C .D DEFLECT TO THE LEFT A ONE-PIECE ARMING/POP HE SMALL PART OF THE TW RLY, THE SYS OPERD NORM	AT A RATE OF PET VLV WAS U D-PIECE VLV (ALLY. MAINT)	ABOUT ONE DE JSED TO REPLA (ABT THE SIZE INSTRNS & DRA	EGREE PER SECO ACE A TWO-PIEC E OF A WASHER) AWINGS DID NOT	ND. INVESTI E VLV, WHIC WAS NOT RE	IGATION CH WAS EMOVED.	

File No 4	05 2/10/89	SAINT GEORGE,UT	A/C Reg. No. N1010Z	Time (Lc1) - 1725 MST
Occurrence #1 Phase of Operation	AIRFRAME/COMPONE TAKEOFF	NT/SYSTEM FAILURE/MALF	FUNCTION	
	EPLACEMENT - IMPRO NADEQUATE - MANUFA	PER - COMPANY MAINTENA CTURER IENTLY DEFINED -	ANCE PSNL	
Occurrence #2 Phase of Operation				
Finding(s) 5. DIRECTIONAL CON 6. GROUND LOOP/SWE				
Occurrence #3 Phase of Operation	ON GROUND COLLIS TAKEOFF - ABORTE	ION WITH OBJECT D		
Finding(s) 7. OBJECT - AIRCRA 8. OBJECT - VEHICL				
Probable Cause	-			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: MALFUNCTION OF THE NOSEWHEEL STEERING SYSTEM DUE TO IMPROPER INSTALLATION OF THE NOSEWHEEL STEERING POPPET VALVE & INADEQUATE MAINTENANCE INSTRUCTIONS.

Basic Information Type Operating Certificate-NONE (GENER	ONI AVIATIONI)	Aircraft Da	amano		Injur	ies	
Type operating certificate-none (GENER	RAL AVIATION)	SUBSTANTI		Fatal			None
Type of Operation -INSTRUCTION	NAL	Fire					1
Flight Conducted Under -14 CFR 91		NONE	Pass	0	0 0	0	0
Accident Occurred During -TAKEOFF							
-Aircraft Information							
Make/Model - CESSNA 182			NENTAL 0-470-R		Installed/A		
Landing Gear - TRICYCLE-FIXED		ngines - 1		S	tall Warnin	g System	- YES
Max Gross Wt - 2800		ype - RECIP					
No. of Seats - 4	Rated Po	wer - 230) HP 				
-Environment/Operations Information	.						
Weather Data Wx Briefing - NWS	Itinerary			Airport I	Proximity		
Wx Briefing - NWS Method - TELEPHONE	SAME AS	rture Point		UN AIR	PURI		
Completeness - FULL	Destinatio	•		Airport Da	ata		
Basic Weather - VMC		CITY.UT		BOLIND			
Wind Dir/Speed- 180/020 KTS	2.1.2 3. 1.1.1	0111,01				16	
Visibility - 20.0 SM	ATC/Airspac	е			Lth/Wid -	5500/	75
Lowest Sky/Clouds - CLEAR	Type of F	light Plan - VI	₹R	Runway	Surface -	ASPHALT	
Lowest Ceiling - NONE		learance - NO		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch	/Lndg - No	DNE				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
-Personnel Information Pilot-In-Command	Age - 27	Med	dical Certifica	te - VALID	MEDICAL-WA	IVERS/LIM	ΙΤ
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight		Fliah	nt Time (H	ours)		
STUDENT	Current		Total - Make/Model- Instrument- UN	30	Last 24	Hrs -	2
	Months Sinc		Make/Model-	. 9	Last 30	Days-	13
	Aircraft Ty	pe - N/A	Instrument- UN	NK/NR	Last 90	Days-	15
			Multi-Eng - UN	NK/NR	Rotorcr	aft - UN	K/NR
Instrument Rating(s) - NONE							
STUDENT PLT WAS ON A SOLO X-COUNTRY TRA	INING FLT. HE RPRT	D THAT DRG THE	TAKEOFF ROLL OF	N RWY 16.	A GUST OF W	IND	
THE PLANE OFF THE LEFT SIDE OF THE RWY							

Time (Lcl) - 1500 MST File No. - 441 3/09/89 TOOELE,UT A/C Reg. No. N3613U

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

Finding(s)

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

Occurrence #2 ON GROUND COLLISION WITH TERRAIN/WATER Phase of Operation TAKEOFF - GROUND RUN

----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 WHICH RESULTED IN LOSS OF DIRECTIONAL CONTROL AND INADVERTENT GROUND SWERVE. THE QUARTERING CROSSWIND, GUSTS, AND LACK OF PILOT EXPERIENCE WERE CONTRIBUTING FACTORS.

File No 495 4/09/89 MORGAN	N,UT A/C	Reg. No. N7847U	Т	ime (Lcl)	- 1800 MDT	
Basic Information Type Operating Certificate-NONE (GENERAL	SUBS ⁻	aft Damage FANTIAL	Fatal	Inju Serious	Minor	None
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	Fire NONE	Crew Pass		0	0	1 0
Aircraft Information Make/Model - CESSNA 172F Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2400 No. of Seats - 4	Number Engines -	CONTINENTAL 0-300-D 1 RECIPROCATING-CARBUR 145 HP	S		Activated ng System	
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 270/010 KTS Visibility - 30.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	Itinerary Last Departure Point PARIS, ID Destination BOUNTIFUL, UT ATC/Airspace Type of Flight Plant Type of Clearance Type Apch/Lndg	n - NONE	ON AIR Airport D MORGAN Runway Runway Runway	ata MUNI Ident Lth/Wid Surface		50
-Personnel Information Pilot-In-Command Certificate(s)/Rating(s) PRIVATE SE LAND	Age - 37 Biennial Flight Review Current - YES Months Since - 9 Aircraft Type - C-172	Total - Make/Model-	te - VALID ht Time (H 301 150 41	ours)	4 Hrs - O Days-	0 10 24
Instrument Rating(s) - NONE						
Instrument Rating(s) - NONE Narrative G FLT AT 10,500' MSL, THE ENG LOST POWER & NOT. THE RWY WAS ONLY 3800' LONG & HAD A RPRIONED THE PLT RPRTD THAT DRG THE LANDING MAINING RWY. AFTER GOING OFF THE DEPARTURE NOTED THE FORM THE FUEL SYSTEM. AUTOMOTION OF WATER FROM THE FUEL SYSTEM. AUTOMOTION	TD DOWNWARD SLOPE OF 1.5 (, THE ACFT TOUCHED DOWN A END, IT HIT A FENCE & WAS JEL SYSTEM REVEALED EVIDE! HIS ACFT HAD A SIMILAR PRO	DEG. THE WIND WAS ES F ABOUT MIDFIELD & H DAMAGED. A POST ACD NCE THAT THE MAIN FU DBLEM PREVIOUSLY & H	TIMATED TO E WAS UNAB NT EXAM RE EL LINE &	BE FROM 2 LE TO STOP VEALED THE FUEL FILTE	70 DEG ON THE RE WAS R WERE	

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - NON-MECHANICAL Phase of Operation CRUISE - NORMAL Finding(s) 1. MAINTENANCE, SERVICE OF AIRCRAFT - INADEQUATE - PILOT IN COMMAND 2. FUEL SYSTEM, FILTER - BLOCKED(PARTIAL) 3. FUEL SYSTEM, LINE - BLOCKED(PARTIAL) 4. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - DOWNHILL	 Time (Lcl) - 1800 MDT	C Reg. No. N7847U	89 MORGAN,UT	File No 495 4,
1. MAINTENANCE, SERVICE OF AIRCRAFT - INADEQUATE - PILOT IN COMMAND 2. FUEL SYSTEM, FILTER - BLOCKED(PARTIAL) 3. FUEL SYSTEM, LINE - BLOCKED(PARTIAL) 4. FLUID, FUEL - STARVATION Occurrence #2 FORCED LANDING Phase of Operation DESCENT - EMERGENCY Occurrence #3 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - DOWNHILL			NE POWER(TOTAL) - NON-MECHA MAL	urrence #1 LOSS OF se of Operation CRUISE -
Phase of Operation DESCENT - EMERGENCY Occurrence #3 OVERRUN Phase of Operation LANDING - ROLL Finding(s) 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - DOWNHILL	 ·		PARTIAL) RTIAL)	. MAINTENANCE, SERVICE OF AIR . FUEL SYSTEM, FILTER - BLOCK . FUEL SYSTEM, LINE - BLOCKER . FLUID, FUEL - STARVATION
Phase of Operation LANDING - ROLL Finding(s) 5. AIRPORT FACILITIES, RUNWAY/LANDING AREA CONDITION - DOWNHILL	 		IERGENCY	se of Operation DESCENT -
5. AIRPORT FACILITIES,RUNWAY/LANDING AREA CONDITION - DOWNHILL		•	ıLL	
*			DING AREA CONDITION - DOWNH	
Occurrence #4 ON GROUND COLLISION WITH OBJECT Phase of Operation LANDING - ROLL				
Finding(s) 6. OBJECT - FENCE				. OBJECT - FENCE
Probable Cause	 			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: INADEQUATE SERVICING OF THE AIRCRAFT BY THE PILOT, PARTIAL BLOCKAGE OF THE FUEL LINE AND FUEL STARVATION. CONTRIBUTING FACTORS WERE: THE DOWNWARD SLOPING RUNWAY AND A FENCE.

File No 497 7/07/89 BOUNT	IFUL,UT	A/C Reg. I	No. N6318K	Т	ime (Lcl) -	0839 MDT	
-Basic Information Type Operating Certificate-NONE (GENERA Type of Operation -PERSONAL	L AVIATION)	Aircraft Dai DESTROYED Fire	Crew	Fatal O	Injur Serious 1	Minor O	None 0
Flight Conducted Under -14 CFR 91 Accident Occurred During -TAKEOFF		NONE	Pass	0	0	0	0
Make/Model - CESSNA 150M Landing Gear - TRICYCLE-FIXED Max Gross Wt - 1600 No. of Seats - 2		•	DCATING-CARBURE	TOR S	Installed/A tall Warnin	g System	- YES
-Environment/Operations Information							
Weather Data Wx Briefing - NO RECORD OF BRIEFING Method - N/A	Itinerary Last Depar SAME AS				Proximity RPORT/STRIP		
Completeness - N/A Basic Weather - VMC Wind Dir/Speed- 180/005 KTS	Destination LOCAL			Runway	AKE SKYPARK Ident -	34	
Visibility - 25.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAYLIGHT	, ,	ight Plan - NO earance - NO		Runway	Lth/Wid - Surface - Status -	ASPHALT	60
-Personnel Information Pilot-In-Command	Age - 44	Med	ical Certificat	e - VALID	MEDICAL-NO	WAIVERS/	ì TMTT
Certificate(s)/Rating(s)	Biennial Flight			t Time (H		WATVERS	CIMI
STUDENT	Current Months Since Aircraft Typ		Total - Make/Model- Instrument- UN Multi-Eng - UN	37 K/NR	Last 30 Last 90		1 13
Instrument Rating(s) - NONE							
-Narrative FER MAKING A TOUCH-&-GO LANDING, THE PLT BE TH THE FLAPS FULLY RETRACTED, EXCEPT FOR SH EAD. THE PLT STATED THAT AFTER CLIMBING TO O NOT SEEM TO BE PROVIDING FULL POWER. HE D E NOSE TO ACCELERATE & STARTED A RIGHT TURN FORE THE PILOT COULD RECOVER FROM A DESCENT THE ENG REVEALED NO EVIDENCE OF A PART FAI	ORT FIELD TAKEOFF ABOUT 300′ AGL, H ID NOT CHECK THE TO AVOID AN OBST . THERE WAS EVIDE	S OR TAKEOFFS OF NOTED THE ACENG INSTRUMENT ACLE. AT ABOUT NCE THE ENG WA	ON SOFT OR ROUG FT WAS NOT CLIM S TO VERIFY THE THAT TIME, THE S DEVELOPING PO	H FIELDS BING PROPE ENG PERFE ACFT STA WER AT IM	WITH NO OBS ERLY & THAT ORMANCE. HE LLED, THEN PACT. A TEA	TACLES THE ENG LOWERED CRASHED	

File No. - 497 7/07/89 BOUNTIFUL,UT A/C Reg. No. N6318K Time (Lc1) - 0839 MDT

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

Finding(s)

- 1. TOUCH-AND-GO INITIATED -
- 2. RAISING OF FLAPS IMPROPER PILOT IN COMMAND
- 3. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 4. TERRAIN CONDITION HIGH OBSTRUCTION(S)
- 5. MANEUVER INITIATED -
- 6. AIRSPEED INADEQUATE PILOT IN COMMAND
- 7. 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: THE PILOT FAILED TO MAINTAIN ADEQUATE SPEED FOR THE TURNING MANEUVER (TO AVOID AN OBSTACLE) AND INADVERTENTLY ALLOWED THE AIRCRAFT TO STALL. CONTRIBUTING FACTORS WERE: IMPROPER UUSE OF THE FLAPS, HIGH DENSITY ALTITUDE, AND A HIGH OBSTRUCTION.

File No 502 7/08/89	HOLDEN, UT	A/C Reg. No. N6	754Q	Time (Lc1)	- 0650 MDT	
Basic Information Type Operating Certificate-AGRICU Type of Operation -AERIAL Flight Conducted Under -14 CFR Accident Occurred During -DESCEN	APPLICATION F	Aircraft Damage SUBSTANTIAL Fire NONE		Inju al Serious O O		None 1 O
Aircraft Information Make/Model - GRUMMAN/SCHWEIZER Landing Gear - TAILWHEEL-ALL FIX Max Gross Wt - 6400 No. of Seats - 1	.ED Number Engine	el - P & W R-985 es - 1 - RECIPROCATING - 450 HP		ELT Installed/ Stall Warni		
Environment/Operations Information- Weather Data Wx Briefing - UNK/NR Method - UNK/NR Completeness - UNK/NR Basic Weather - VMC Wind Dir/Speed- 090/004 KTS Visibility - 50.0 SM Lowest Sky/Clouds - CLEAR Lowest Ceiling - NONE Obstructions to Vision- NONE Precipitation - NONE Condition of Light - DAWN	Itinerary Last Departure SAME AS ACC, Destination LOCAL ATC/Airspace Type of Flight Type of Cleara Type Apch/Lndg	/INC t Plan - NONE ance - NONE	OF Airpo Ru Ru Ru	nway Lth/Wid nway Surface	- N/A	
Personnel Information Pilot-In-Command Certificate(s)/Rating(s) COMMERCIAL SE LAND Instrument Rating(s) - NONE	Age - 45 Biennial Flight Rev Current - Months Since - Aircraft Type -	iew YES Total 18 Make/I C-172 Instru	Flight Tim - 10000	Last 2 Last 3 Last 9	4 Hrs - O Days- UN	5 K/NR 150

File No. - 502 7/08/89 HOLDEN, UT A/C Reg. No. N6754Q Time (Lc1) - 0650 MDT LOSS OF CONTROL - IN FLIGHT Occurrence #1 Phase of Operation CRUISE Finding(s) 1. WEATHER CONDITION - HIGH DENSITY ALTITUDE STALL/MUSH - INADVERTENT - PILOT IN COMMAND 3. LOAD JETTISON - INITIATED - PILOT IN COMMAND 4. AIRCRAFT WEIGHT AND BALANCE - MISJUDGED - PILOT IN COMMAND Occurrence #2 IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation DESCENT - UNCONTROLLED Finding(s) 5. TERRAIN CONDITION - CROP 6. 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 MISJUDGEMENT OF THE EFFECT OF HIGH DENSITY ALTITUDE ON A HEAVILY LOADED AIRCRAFT.

Basic Information Type Operating Certificate-NONE (GE	NERAL AVIATION)	Aircraft Dam	_	.	Inju		
Type of Operation -TEST FLT		SUBSTANTIAL Fire	Crew	Fatal O	Serious O		None 1
Flight Conducted Under -14 CFR 9		NONE		0	-	0	Ö
Accident Occurred During -LANDING	· 						
Aircraft Information							
Make/Model - TESMER GLASSAIR SH-	2 Eng Make	/Model - LYCOMIN	IG 0-320-B3B	ELT	Installed/		
Landing Gear - TAILWHEEL-ALL FIXED		ngines - 1			tall Warni	ng System	- NU
Max Gross Wt - 1600		ype - RECIPRO wer - 160		TUR			
No. of Seats - 2		wer - 160	MP 				
Environment/Operations Information Weather Data	- Itinerary			Airport	Proximity		
Wx Briefing - FSS		rture Point			RPORT/STRI	Þ	
Method - TELEPHONE	WATERLO			OII AI	N. 5K (/ 51KI)		
Completeness - FULL	Destinatio	•		Airport D	ata		
Basic Weather - VMC		ACC/INC			OWN MUNI		
Wind Dir/Speed- 300/010 KTS	•			Runway	Ident	- 23	
Visibility - 10.0 SM	ATC/Airspac				Lth/Wid		75
Lowest Sky/Clouds - N/A		light Plan - NON			Surface		
Lowest Ceiling - 2500 FT	OVERCAST Type of C	learance - NON	1E	Runway	Status	- DRY	
Obstructions to Vision- NONE	Type Apch	/Lndg - FOR	RCED LANDING				
Precipitation - NONE							
Condition of Light - DAYLIGHT							
Personnel Information	4 00	9.6 L.0		- \/AL TD	MEDICAL		7.7
Pilot-In-Command	Age - 28		ical Certificat	e - VALID it Time (F		AIVERS/LIM	7.1
Certificate(s)/Rating(s)	Biennial Flight		Total -		,	4 Hrs -	1
PRIVATE SE LAND	Months Sinc	- YES e - 4	Make/Model-	334 3	Last 2	n Dave-	5
JL LAND	MUTICIS SINC	e - 4 pe - PA-28	Instrument-	35	1251 3	O Days O Days-	
	Ancialtiy	PG FA 20	Instrument- Multi-Eng -	0	Rotorc	raft -	0
			Hartr Eng	V	NO COT C		Ü
Instrument Rating(s) - NONE	1						
Narrative							
NEW, HOME BUILT, ACFT WAS ON ITS MAID	EN FLT. AS THE OWNER	WAS PERFORMING	STALLS ABOUT 1	/2 HR AFT	ER TAKEOFF	. THE ENG	
N RUNNING ROUGH. POWER WAS RESTORED W							
LATER, AS HE WAS APCHG THE ARPT TO LA GED DRG AN EMERG LNDG. DRG AN EXAM OF	THE FUEL SYS, AIR W	A2 LOOND TH THE					
LATER, AS HE WAS APCHG THE ARPT TO LA					1/2 INCH (OUT OF	
LATER, AS HE WAS APCHG THE ARPT TO LA GED DRG AN EMERG LNDG. DRG AN EXAM OF					1/2 TNCH (OUT OF	

File No 4	44 4/30/89	WATERTOWN,WI	A/C Reg.	No. N29HJ	Time (Lc1) - 0700 CDT
Occurrence #1 Phase of Operation	LOSS OF ENGINE F	POWER			
Finding(s) 1. FUEL SYSTEM - U 2. FLUID,FUEL - ST					
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	ENCY			
Occurrence #3 Phase of Operation	ON GROUND COLLIS	SION WITH TERRAIN/WATER			

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: LACK FUEL FLOW TO THE ENGINE (FUEL STARVATION) DUE TO AN UNDETERMINED FUEL SYSTEM PROBLEM.

----Probable Cause----

File No 569 5/27/89 NECE	DAH, WI A/C Re	eg. No. N4526Z	٦	ime (Lcl) -	1620 CDT	
-Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION) Aircraft SUBSTAN	t Damage	Fatal	Injur Serious	ies Minor	None
Type of Operation -PERSONAL	Fire	Crew		5er 10us	1	0
Flight Conducted Under -14 CFR 91	NONE	Pass	-	1	Ó	0
Accident Occurred During -LANDING	NONE	rass	U	ı	O	O
Make/Model - PIPER PA-22-108	Eng Make/Model - LYG	COMING 0-235-C1B	ELT	Installed/A	ctivated	- YES/YES
Landing Gear - TRICYCLE-FIXED	Number Engines - 1		\$	stall Warnir	ng System	- YES
Max Gross Wt - 1650	Engine Type - REG	CIPROCATING-CARBUR	ETOR		•	
No. of Seats - 2	Rated Power -	108 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - NO RECORD OF BRIEFIN			OFF A	RPORT/STRIF)	
Method - N/A	NECEDAH, WI					
Completeness - N/A	Destination		Airport [ata 💮		
Basic Weather - VMC	NECEDAH, WI		NACEDA	Н		
Wind Dir/Speed- 300/008 KTS			Runway	/ Ident -	· 34	
Visibility - 15.0 SM	ATC/Airspace		Runway	/ Lth/Wid -	2400/	120
Lowest Sky/Clouds - CLEAR	Type of Flight Plan	- NONE	Runway	/ Surface -	GRASS/TU	RF
Lowest Ceiling - NONE	Type of Clearance	- NONE	Runway	/ Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg -	- TRAFFIC PATTERN	•			
Precipitation - NONE	3					
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 19	Medical Certifica			IVERS/LIM	IT
Certificate(s)/Rating(s)	Biennial Flight Review		ht Time (H			
PRIVATE	Current - YES	Total -		Last 24		1
SE LAND	Months Since - 6	Make/Model-		Last 30	•	1
	Aircraft Type - UNK/NR	Instrument-	5	Last 90	Days-	1
Instrument Rating(s) - NONE						
-Narrative LE DESCENDING FOR A LANDING THE AIRCRAFT CRAFT LANDED IN SOFT TERRAIN AND NOSED OV LE HIS PASSENGER RECEIVED SERIOUS INJURIE	ER THE AIRCRAFT WAS DESTROYE	D. THE PILOT SUST	AINED MING	R INJURIES		

File No 5	69 5/27/89	NECEDAH, WI	A/C Reg. No. N4526Z	Time (Lcl) - 1620 CDT
Occurrence #1 Phase of Operation			MECHANICAL	
	ECTOR POSITION - I	MPROPER USE OF - P YPE OF AIRCRAFT - I		
Occurrence #2 Phase of Operation	FORCED LANDING DESCENT - EMERGE	NCY		
Occurrence #3 Phase of Operation	NOSE OVER LANDING - FLARE/	TOUCHDOWN		
Finding(s) 4. TERRAIN CONDITI	ON - SOFT			
Probable Cause				·

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: PILOT-IN-COMMAND'S IMPROPER USE OF THE FUEL SELECTOR.

Basic Information Type Operating Certificate-NONE (GENERAL	AVIATION) Aircra	ft Damage		Injur	ies	
	SUBST		Fatal	Serious	Minor	None
Type of Operation -PERSONAL	Fire	Crew		0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING	NONE	Pass	0	0	0	2
Aircraft Information						
Make/Model - PIPER PA-28-180	Eng Make/Model - L			[nstalled/A		
Landing Gear - TRICYCLE-FIXED	Number Engines - Engine Type - R			tall Warning	g System	- YES
Max Gross Wt - 2400 No. of Seats - 4	J ,,	180 HP	LIOK			
Environment/Operations Information						
Weather Data	Itinerary		Airport I			
Wx Briefing - NO RECORD OF BRIEFING	Last Departure Poin	t	ON AIR	PORT		
Method - N/A Completeness - N/A	WAUKESHA,WI Destination		Airport Da	. + ->		
Basic Weather - VMC	SAME AS ACC/INC		CRANDO			
Wind Dir/Speed- 180/020 KTS	SAME AS ACC, INC				1 1	
Visibility - 10.0 SM	ATC/Airspace			Lth/Wid -		75
Lowest Sky/Clouds - N/A	Type of Flight Plan	- NONE		Surface -		, 0
Lowest Ceiling - 15000 FT BROKE					DRY	
Obstructions to Vision- NONE	Type Apch/Lndg		•			
Precipitation - NONE		FULL STOP				
Condition of Light - DAYLIGHT						
Personnel Information Pilot-In-Command	A 20	Medical Certifica	+0 - VALTD	MEDICAL WA	TVEDC/LTM	1.T.T
	Age - 39 Biennial Flight Review		ht Time (H		IVEKS/LIN	11.1
PRIVATE		_	· · · · · · · · · · · · · · · · · · ·	•	Hrs -	1
SE LAND	Current - YES Months Since - 7	Total - Make/Model-	10	Last 30	Days-	2
	Aircraft Type - UNK/N	R Instrument-	3	Last 90	Days-	10
	,,	Multi-Eng -		Rotorcr		0
Instrument Rating(s) - NONE						
Narrative						
PLT RPRTD THAT AS HE WAS LANDING, THE ACFT	FNCOUNTERED WIND THAT WA	S SWIRLING BELOW TR	FETOP LEVE	SUBSECUE	NTIY	
ACFT STRUCK THE GROUND WITH THE LEFT WING					· · · · · ,	
ELANDER, WI, THE 1450 CDT WIND WAS FROM 23					HE	

5/28/89 CRANDON, WI A/C Reg. No. N4734L Time (Lcl) - 1330 CDT File No. - 440

Occurrence #1

LOSS OF CONTROL - IN FLIGHT Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION TURBULENCE, CLEAR AIR
- 2. WEATHER CONDITION CROSSWIND
- 3. IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 4. AIRCRAFT CONTROL NOT MAINTAINED PILOT IN COMMAND
- LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

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

----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 LOSS OF CONTROL & SUBSEQUENT WINGTIP COLLISION WITH THE GROUND DURING THE LANDING. THE CROSSWIND AND TURBULENCE WERE CONTRIBUTING FACTORS.

-Basic Information Type Operating Certificate-NONE (GENE	RAL AVIATION) Aircr	aft Damage		Injur	ies	
· , per sport at migration and management		TANTIAL	Fatal			None
Type of Operation -PERSONAL	Fire		_	0	0	1
Flight Conducted Under -14 CFR 91	NONE	Pass	0	0	0	1
Accident Occurred During -LANDING						
-Aircraft Information						
Make/Model - STITTS SA7D		LYCOMING 0-235-C1				
Landing Gear - TAILWHEEL-ALL FIXED	Number Engines -			itall Warnin	ıg System	- NO
Max Gross Wt - 1550		RECIPROCATING-CARBUR	ETUR			
No. of Seats - 2	Rated Power -	115 HP				
Environment/Operations Information						
Weather Data	Itinerary			Proximity		
Wx Briefing - FSS	Last Departure Poi	nt	ON AIR	PORT		
Method - TELEPHONE	OGDEN, UT					
Completeness - FULL	Destination		Airport D			
Basic Weather - VMC Wind Dir/Speed- 230/018 KTS	SAME AS ACC/INC		EVANST		0.0	
Visibility - 50.0 SM	ATC/Airspace			/Ident - /Lth/Wid -	23	100
Lowest Sky/Clouds - 10000 FT SC		n - NONE		Surface -		100
Lowest Ceiling - NONE	Type of Clearance			Status -		
Obstructions to Vision- NONE		- TRAFFIC PATTERN	Kannay	5 (4 (45	DICT	
Precipitation - NONE	. , , , , , , , , , , , , , , , , , , ,					
Condition of Light - DAYLIGHT						
Personnel Information						
Pilot-In-Command	Age - 28	Medical Certifica	te - VALID	MEDICAL-NO	WAIVERS/	'LIMIT
<pre>Certificate(s)/Rating(s)</pre>	Biennial Flight Review		nt Time (H			
PRIVATE	Current - YES	Total -	75	Last 24	Hrs -	1
SE LAND	Months Since - 15 Aircraft Type - C-15	Make/Model-	16	Last 30	Days-	1
	Aircraft Type - C-15					3
		Multi-Eng - UI	NK/NR	Rotorcr	aft - UN	IK/NR
Instrument Rating(s) - NONE						
PLT RPRTD THAT WHILE ON AN APCH FOR A L						
	S BEING MADE TO RWY 23 WITH	A LITTLE COLL	TIBUECT AT	40 MTC THE	DIT	

File No. - 480 7/02/89 EVANSTON,WY A/C Reg. No. N1113E Time (Lcl) - 1615 MDT

Occurrence #1

HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

- 1. WEATHER CONDITION HIGH DENSITY ALTITUDE
- 2. WEATHER CONDITION UNFAVORABLE WIND
- 3. WEATHER CONDITION DOWNDRAFT
- 4. COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. LACK OF TOTAL EXPERIENCE PILOT IN COMMAND

----Probable Cause----

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

File No 501 7/04/89 NEWC	ASTLE, WY	A/C Reg. No.	N4831N	Time (Lcl) - 0715 MDT		T	
-Basic Information Type Operating Certificate-NONE (GENER	AL AVIATION)	Aircraft Damag	e			ries	
Town - C On - we think - DEDCOMAL		SUBSTANTIAL	0	Fatal	-		None
Type of Operation -PERSONAL		Fire	Crew	0	0	1	0
Flight Conducted Under -14 CFR 91 Accident Occurred During -LANDING		NONE	Pass	0	0	0	0
-Aircraft Information							
Make/Model - HENRY VICKERS HCV-110	Eng Make/M	odel - CONTINENT	AL GPV	ELT	Installed/	Activated	- YES/N
Landing Gear - TAILWHEEL-ALL FIXED	Number End	ines - 1		S	tall Warni	na System	- NO
Max Gross Wt - 1160		e - RECIPROCA				0,010	
No. of Seats - 1		r - 100 HP					
-Environment/Operations Information							
Weather Data	Itinerary			Airport	Proximity		
Wx Briefing - UNK/NR	Last Depart	ure Point			RPORT/STRI	Р	
Method - UNK/NR	NEWCASTLE				,	•	
Completeness - UNK/NR	Destination	,		Airport Da	ata		
Basic Weather - VMC	LOCAL			A 11 POI C D.			
Wind Dir/Speed- 135/025 KTS	20042			Punway	Ident	- N/A	
Visibility - 15.0 SM	ATC/Airspace				Lth/Wid		
Lowest Sky/Clouds - CLEAR	•	ght Plan - NONE			Surface		IIDE
Lowest Ceiling - NONE		arance - NONE			Status		UKI
Obstructions to Vision- NONE		ndg - FORCE	D I ANDING	Kuliway	Status	DKI	
Precipitation - NONE	Type Apcil/L	ridg - TURCEI	D LANDING				
Condition of Light - DAYLIGHT							
Pilot-In-Command	Age - 65	Medica	1 Certificat	e - VALID	MEDICAL-W	ATVERS/LTI	MIT
Certificate(s)/Rating(s)	Biennial Flight R			t Time (H		A1 V E N G / E 1	
PRIVATE	Current		tal -			4 Hrs -	1
SE LAND	Months Since		ke/Model-				3
JE EAND	Aircraft Type		strument-		Last 9		3
	An cruit Type		3 CT GINCTIC	O	Last 3	O Days	3
Instrument Rating(s) - NONE							
-Narrative ACFT HAD BEEN AIRBORNE FOR ABOUT ONE HOU KED AN OPEN AREA. STRONG SURFACE WINDS RE	SULTED IN AN UNDERS	HOOT OF THE SELE	CTED AREA AN	D WHEN HE	TRIED TO		
ETCH THE GLIDE THE ACFT STALLED AND LANDE Y ONE MAGNETO. HE SAID THE MAGNETO COIL F							

File No. - 501 7/04/89 NEWCASTLE, WY A/C Reg. No. N4831N Time (Lcl) - 0715 MDT

Occurrence #1 LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation CRUISE - NORMAL

Finding(s)

1. IGNITION SYSTEM, MAGNETO - FAILURE, TOTAL

Occurrence #2

FORCED LANDING Phase of Operation DESCENT - EMERGENCY

Occurrence #3 HARD LANDING

Phase of Operation LANDING - FLARE/TOUCHDOWN

Finding(s)

2. PLANNED APPROACH - POOR - PILOT IN COMMAND

3. STALL - INADVERTENT - PILOT IN COMMAND

4. LANDING GEAR, MAIN GEAR - OVERLOAD

----Probable Cause----

The National Transportation Safety Board determines that the Probable Cause(s) of this accident was: THE FAILURE TO THE MAGNETO. THE SELECTION OF A POWERPLANT WITH A SINGLE MAGNETO SYSTEM WAS AN IMPROPER CHOICE AND DIRECTLY CONTRIBUTED TO THE CAUSE. THE PILOT'S MISJUDGEMENT OF THE WIND FOR THE APPROACH TO A FORCED LANDING RESULTED IN AN IMPROPER GROUND CONTACT.

Basic Information Type Operating Certificate-NONE (GENERA	L AVIATION) Aircraf	t Damage		Injuri	es	•
	SUBSTA	NTIAL		Serious		
Type of Operation -PERSONAL Flight Conducted Under -14 CFR 91	Fire	Crew Pass	0	0	0	1
Accident Occurred During -LANDING	NONE	Pass	0	O	0	2
Aircraft Information						
Make/Model - PIPER PA-28-161	Eng Make/Model - L			installed/Ac all Warning		
Landing Gear - TRICYCLE-FIXED Max Gross Wt - 2325	Number Engines - : Engine Type - RE			all warning	system	- 152
No. of Seats - 4	Rated Power -					
Environment/Operations Information	***		A			
Weather Data Wx Briefing - UNK/NR	Itinerary Last Departure Point		Airport F ON AIRF			
Method - UNK/NR	AFTON, WY	•	ON AIM	O.C.I		
Completeness - WEATHER NOT PERTINENT			Airport Da	ita		
Basic Weather - VMC	SAME AS ACC/INC		ALPINE	T -1 +	40	
Wind Dir/Speed- LIGHT AND VARIABLE Visibility - 30.0 SM	ATC/Airspace			Ident - Lth/Wid -		50
Lowest Sky/Clouds - CLEAR	Type of Flight Plan			Surface -		00
Lowest Ceiling - NONE	Type of Clearance		Runway	Status -	DRY	
Obstructions to Vision- NONE	Type Apch/Lndg	- TRAFFIC PATTERN				
Precipitation - NONE Condition of Light - NIGHT(DARK)						
Personnel Information						
<pre>Pilot-In-Command Certificate(s)/Rating(s)</pre>	Age - 23 Biennial Flight Review	Medical Certifica Flig	nt Time (Ho	ours)		
PRIVATE	Current - YES	Total -	108	Last 24	Hrs - UN	K/NR
SE LAND	Months Since - 10 Aircraft Type - UNK/NF	Make/Model-	24 7	Last 30	Days-	7 19
	ATTCTATE Type ONE, NO	Tris trainerre	,	Last 50	Days	15
Instrument Rating(s) - NONE	<u> </u>					
Narrative						
ACFT WAS LANDING ON AN UNLIGHTED, 5700 X						
I A DITCH WHICH BROKE OFF THE LT MAIN GEAR	AND DAMAGED THE WING. THE D THE SUN HAD SET AT ABOUT		S SHOW THE	AIRPORT IS		

File No. - 574 7/14/89 ALPINE, WY Time (Lcl) - 2215 MDT A/C Reg. No. N21170 OVERRUN Occurrence #1 Phase of Operation LANDING - ROLL Finding(s) 1. LIGHT CONDITION - NIGHT 2. IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND OVER CONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND 4. AIRPORT FACILITIES, RUNWAY EDGE LIGHTS - NOT OPERATING 5. PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND VISUAL/AURAL PERCEPTION - PILOT IN COMMAND 7. AIRPORT FACILITIES - NOT OPERATING ON GROUND COLLISION WITH TERRAIN/WATER Occurrence #2 Phase of Operation LANDING - ROLL Finding(s) 8. TERRAIN CONDITION - DITCH ----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'S DECISION TO LAND AT AN UNLIGHTED AIRPORT AT NIGHT. THE AIRCRAFT LANDED LONG AND OVERRAN THE RUNWAY.

			Notes to contract the contract of the contract
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