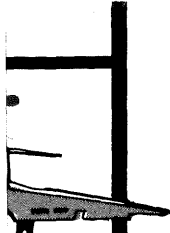
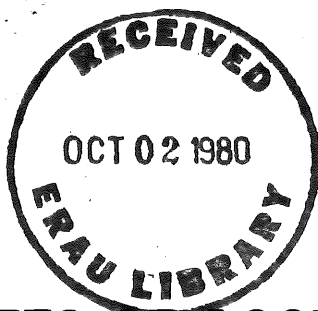


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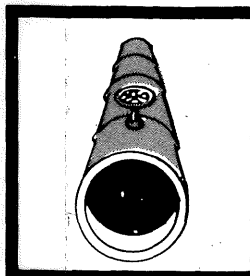
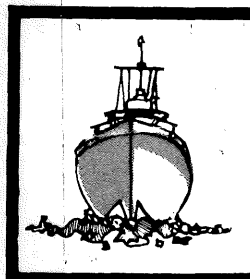
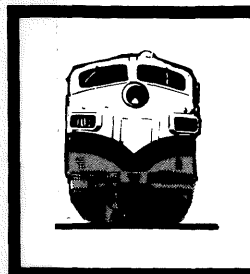
WASHINGTON, D.C. 20594



## BRIEFS OF ACCIDENTS INVOLVING MIDAIR COLLISIONS

U.S. GENERAL AVIATION  
1978

NTSB-AMM-80-2



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02

UNITED STATES GOVERNMENT

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17. Key Words Aviation accidents, <u>midair collisions</u> , U.S. general aviation, probable cause, type of accident, phase of operation, kind of flying, aircraft damage, injuries, pilot data.		18. Distribution Statement This document is available to the public through the National Technical Information Service, Springfield, VA 22151	
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5-08



## FOREWORD

This publication contains reports of U.S. General Aviation midair collision accidents in Brief format arranged in order by state and date of occurrence. It also lists these accidents in order by file number. In addition, information is presented in several statistical tables which tabulate and summarize selected accident information, such as kind of flying, phase of operation, injuries, altitude of occurrence, airport proximity, causes and related factors, pilot certificates, and a 20 year tabulation of U.S. Civil Aviation accidents involving midair collisions.

The following chart compares the accident rates for total U.S. General Aviation with accidents involving U.S. General Aviation midair collisions:

	Hours Flown 1/	Total Accidents	Total Accident Rate 2/	Fatal Accidents	Fatal Accident Rate 2/
Total - U.S. General Aviation	39,409,269	4,494	11.40	793	2.01
U.S. General Aviation Accidents Involving Midair Collisions	39,409,269	35	0.089	23	0.058

1/ Source: Federal Aviation Administration

2/ The accident rates are per 100,000 hours flown.

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 damages 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 coded records on magnetic tape by electronic data processing equipment. Also, in reading the text, it must be borne in mind that computer language is utilized, thus requiring a number of abbreviations due to spacing limitations. Caution should be exercised in reading the Briefs of Accidents, especially those containing abbreviations in phrases and sentences.

Collisions between aircraft are treated as one accident. A coded 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 reproduced 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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## EXPLANATORY NOTES

### U.S. GENERAL AVIATION

U.S. general aviation refers to the operations of U.S. civil aircraft owned and operated by persons, businesses, corporations, etc., excluding the operations of U.S. air carriers.

### U.S. AIR CARRIER

U.S. air carrier operations include the following three operational categories: 1) certificated route air carriers 2) supplemental air carriers and 3) commercial operators of large aircraft.

### DEFINITIONS

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

#### Aircraft Accident

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 7 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); 3) 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, or any 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 cowlings, 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.

## EXPLANATORY NOTES

### INJURY INDEX

Injury index refers to the highest degree of personal injury sustained as a result of the accident.

### TYPE OF ACCIDENT

Type of accident relates to the immediate circumstances of the occurrence. Many accidents involve a series of circumstances and therefore require a second type to more fully describe the sequence of events. Some examples of types of accidents are as follows:

#### Gear Collapsed

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

#### Gear Retracted

Retraction of the landing gear due to malfunction or failure of the retracting mechanism or to inadvertent retraction by the crew. Excludes intentional gear retraction and wheels-up landing.

#### Airframe Failure

Occurrences resulting from failure of any part of the airframe 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.

#### Engine Failure/Malfunction

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 operation during which the circumstances of the accident occur.

### KIND OF FLYING

Refers to the purpose for which the aircraft is being operated at the time of the accident. There are four broad categories of kind of flying.

#### 1. Instructional Flying

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



## EXPLANATORY NOTES

### KIND OF FLYING

#### 2. Noncommercial Flying

Refers to the use of an aircraft for purposes of pleasure, personal transportation or in connection with a private business, in corporate/executive operations, and in other operations, wherein there is no direct monetary fee charged. It includes the following categories.

##### Pleasure

Flying by individuals in their 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.

#### 3. Commercial Flying

Commercial flying includes all general aviation flying normally conducted for direct financial return, except instructional flying. It includes air taxi operations, aerial application, fire control, aerial mapping or photography, aerial advertising, power/pipeline patrol and fish spotting.

#### 4. Miscellaneous Flying

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

### COLLISION BETWEEN AIRCRAFT

Collisions between aircraft are so classified only when both aircraft are occupied. This includes collisions wherein both aircraft are airborne (midair); one is airborne, the other on the ground; and both are on the ground. A collision with a parked, unoccupied aircraft is classified under the broad category of collision with objects (parked, unoccupied aircraft).

## EXPLANATORY NOTES

### CAUSES AND RELATED FACTORS

In determining probable cause(s) of an accident, all facts, conditions, and circumstances are considered. The object is to ascertain those 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. Therefore, in the Cause and Related Factor Table, the figures shown in the columns dealing with Cause will exceed the total number of accidents. The term Factor is used, in general, to denote those elements of an accident which further explain or supplement the probable cause(s). This provision was incorporated in the coding system to increase its flexibility and to provide a means for collecting essential items of information which could not be categorized elsewhere in the system.

### AIRCRAFT WEIGHT CATEGORIES

The International Civil Aviation Organization's categories of aircraft weight are utilized to classify accident data as follows:

0 -	2,250 kilograms	(0 -	4,960 pounds)
2,251 -	5,700 kilograms	(4,961 -	12,565 pounds)
5,701 -	27,000 kilograms	(12,566 -	59,525 pounds)
27,001 -	272,000 kilograms	(59,526 -	599,650 pounds)
272,001 -	kilograms and greater	(599,651 pounds and greater)	

### SMALL FIXED-WING AIRCRAFT

Fixed-wing aircraft which have a maximum gross takeoff weight of 5700 kilograms (12,565 pounds), or less.

### LARGE FIXED-WING AIRCRAFT

Fixed-Wing aircraft which have a maximum takeoff weight greater than 5,700 kilograms (12,565 pounds).

### ROTORCRAFT

Aircraft which in all usual flight attitudes are supported in the air wholly or in part by a rotor or rotors; i.e., by airfoils rotating or revolving about an axis.

### TYPES OF WEATHER CONDITIONS

The types of weather conditions (VFR/IFR) 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 VFR/IFR as carried under Type of Weather Conditions.

# LIST OF ABBREVIATIONS USED IN BRIEFS

ABBREVIATION	MEANING
AERIAL ADVERTISE	AERIAL ADVERTISING
ATR, FLIGHT INSTR.	AIRLINE TRANSPORT INSTRUCTOR
AIR SHOW/RACING	AIR SHOW/AIR RACING
AIR TAXI-CARGO	AIR TAXI-CARGO OPERATIONS
AIR TAXI-PASSG	AIR TAXI-PASSENGER OPERATIONS
APPROACH CTL-DEPARTURE	APPROACH CONTROL-DEPARTURE
APR CTL-TOW ENRT CTL SRV	APPROACH CONTROL-TOWER EN ROUTE CONTROL SERVICE
ASSOC CROP CTL ACTIVITIES	ASSOCIATED CROP CONTROL ACTIVITIES
ASSOC FIRE CTL ACTIVITIES	ASSOCIATED FIRE CONTROL ACTIVITIES
COMMERCIAL, FLIGHT INSTR.	COMMERCIAL FLIGHT INSTRUCTOR
CORP/EXEC	CORPORATION/EXECUTIVE
CR-	CREW
CTR CARGO-D	CONTRACT/CHARTER-CARGO-DOMESTIC
CTR CARGO-I	CONTRACT/CHARTER-CARGO-INTERNATIONAL
CTR PASSG-D	CONTRACT/CHARTER-PASSENGER-DOMESTIC
CTR PASSG-I	CONTRACT/CHARTER-PASSENGER-INTERNATIONAL
LAST ENROUTE STOP	LAST PLANNED EN ROUTE LANDING POINT
MAPPING/PHOTO	AERIAL MAPPING/PHOTOGRAPHY
MIL CONTRACT CARGO INTL	MILITARY CONTRACT-CARGO-INTERNATIONAL
MIL CONTRACT PASSG INTL	MILITARY CONTRACT-PASSENGER-INTERNATIONAL
MILITARY CTR CARGO DOM	MILITARY CONTRACT-CARGO-DOMESTIC
MILITARY CTR PASSG DOM	MILITARY CONTRACT-PASSENGER-DOMESTIC
MIL/CTR CARGO	MILITARY CONTRACT-CARGO
MIL/CTR PASSG	MILITARY CONTRACT-PASSENGER
NR.	NEAR
NS CTR CARGO	NONSCHEDULED/CHARTER REVENUE CARGO-INTRA-STATE
NS CTR PASSG	NONSCHEDULED/CHARTER REVENUE PASSENGER-INTRA-STATE
NS/CTR REVENUE CARGO DOM	NONSCHEDULED/CHARTER REVENUE CARGO-DOMESTIC
NS/CTR REVENUE CARGO INTL	NONSCHEDULED/CHARTER REVENUE CARGO-INTERNATIONAL
NS/CTR REVENUE PASSG DOM	NONSCHEDULED/CHARTER REVENUE PASSENGER-DOMESTIC
NS/CTR REVENUE PASSG INTL	NONSCHEDULED/CHARTER REVENUE PASSENGER-INTERNATIONAL
OT-	OTHER AIRCRAFT AND GROUND
PARAJUMP	PARACHUTE JUMP
PRIVATE, FL. INSTR.	PRIVATE FLIGHT INSTRUCTOR
PX-	PASSENGERS
RADAR CTL/SURVEILLANCE	RADAR CONTROL/SURVEILLANCE
SCHED CARGO SRV	SCHEDULED CARGO SERVICE
SCHED DOM CARGO SRV	SCHEDULED DOMESTIC CARGO SERVICE
SCHED DOM PASSG SRV	SCHEDULED DOMESTIC PASSENGER SERVICE
SCHED INTERNATL CARGO SRV	SCHEDULED INTERNATIONAL CARGO SERVICE
SCHED INTERNATL PASSG SRV	SCHEDULED INTERNATIONAL PASSENGER SERVICE
SCHED PASSG SRV	SCHEDULED PASSENGER SERVICE
S-D	SCHEDULED-DOMESTIC
S-I	SCHEDULED-INTERNATIONAL
UNK/NR	UNKNOWN/NOT REPORTED



MIDAIR COLLISION ACCIDENTS  
U.S. CIVIL AVIATION

1958-78

Year	Accidents		Number Fatalities	Number of Accidents by Segments of Aviation Involved				
	Total	Fatal		<u>Air Carrier</u> <u>Air Carrier</u>	<u>Air Carrier</u> <u>Gen. Aviation</u>	<u>Air Carrier</u> <u>Military</u>	<u>Gen. Aviation</u> <u>Military</u>	<u>Gen. Aviation</u> <u>Gen. Aviation</u>
1958	16	12	86	0	0	2	2	12
1959	13	10	20	0	0	0	3	10
1960	26	10	152 a/	1	4	0	2	19
1961	20	10	22	0	0	0	0	20
1962	19	9	27	0	0	0	5	14
1963	13	3	6	0	0	0	2	11
1964	15	7	12	0	0	0	2	13
1965	27	14	30	1	0	0	2	24
1966	27	11	33	0	1	0	1	25
1967	26	20	157	0	2	1	3	20
1968	37	23	69	0	3	0	1	33 b/
1969	28	12	122	0	3	0	2	23 b/
1970	37	21	55	0	0	0	5	32 b/
1971	32	20	96	0	3	1	1	27
1972	25	13	41	0	1	0	0	24 b/
1973	24	12	29	0	0	0	0	24
1974	34	19	48	0	0	0	2	32
1975	29	13	47	0	0	0	1	28
1976	31	24	64	0	0	0	1	30
1977	34	17	41	0	0	0	0	34
1978	35	23	189 c/	0	1	0	1	33
TOTAL	548	303	1346	2	18	4	36	488

a/ Includes 6 persons on ground

b/ Includes 1 U.S. general aviation vs. foreign aircraft

c/ Includes 135 on air carrier aircraft, 7 on ground

ACCIDENTS, INJURIES  
MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
1978

		INJURIES					
		FATAL	SERIOUS	MINOR	NONE	UNKNOWN	TOTAL
PAGE 2	PILOT	32	5	6	26		69
	COPILOT		1				1
	DUAL STUDENT	6			4		10
	CHECK PILOT	1					1
	FLIGHT ENGINEER						
	NAVIGATOR						
	CABIN ATTENDANT						
	EXTRA CREW						
	PASSENGERS	8	2		13		23
	TOTAL	47	8	6	43	ABOARD	104
PAGE 2	* OTHER AIRCRAFT	135					135
	OTHER GROUND	7		16			23
GRAND TOTAL		189	8	22	43		262

INVOLVES 35 TOTAL ACCIDENTS  
INVOLVES 23 FATAL ACCIDENTS

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

# ANALYTIC TABLE

## KIND OF FLYING BY PILOT CERTIFICATE

KIND OF FLYING	PILOT CERTIFICATE							RECORDS	ACCIDENTS	PERCENT
	STUDENT	PRIVATE	COMMERCIAL	ATR	PRIVATE/ FL. INSTR.	COMMERCIAL/ FL. INSTR.	ATR / FL. INSTR.			
<u>INSTRUCTIONAL</u>										
DUAL					6	1		7	6	10.14
SOLO	4							4	3	5.80
CHECK	1							1	1	1.45
TRAINING	2		1	1				4	3	5.80
<u>NONCOMMERCIAL</u>										
PLEASURE	1	16	7		5			29	19	42.03
PRACTICE	1	2						3	3	4.35
BUSINESS			1		1			2	2	2.90
CORPORATE/EXECUTIVE										
AERIAL SURVEY			1			1		2	1	2.90
COMPANY FLIGHT										
OTHER										
<u>COMMERCIAL</u>										
AERIAL APPLICATION			1					1	1	1.45
CROP CONTROL RELATED FLIGHT			3					3	2	4.35
FIRE CONTROL										
FIRE CONTROL RELATED FLIGHT										
AERIAL MAPPING/PHOTOGRAPHY										
AERIAL ADVERTISING			1		1			2	1	2.90
POWER AND PIPELINE PATROL										
FISH SPOTTING			2	1	1			4	2	5.80
AIR TAXI-PASSENGER OPERATIONS			1					1	1	1.45
AIR TAXI-CARGO OPERATIONS										
CONSTRUCTION WORK										
SCHEDULED PASSENGER SERVICE										
SCHEDULED CARGO SERVICE										
INTRA-STATE CHARTER PASSG.										
INTRA-STATE CHARTER CARGO.										
MILITARY CONTRACT-PASSENGER										
MILITARY CONTRACT-CARGO										
CHARTER CARGO-DOMESTIC										
CHARTER PASSG-DOMESTIC										
CHARTER-CARGO-INTERNATIONAL										
CHARTER-PASSG-INTERNATIONAL										
OTHER										
UNKNOWN/NOT REPORTED										

# ANALYTIC TABLE

## KIND OF FLYING BY PILOT CERTIFICATE

KIND OF FLYING	PILOT CERTIFICATE							RECORDS	ACCIDENTS	PERCENT
	STUDENT	PRIVATE	COMMERCIAL	ATR	PRIVATE/ FL. INSTR.	COMMERCIAL/ FL. INSTR.	ATR/ FL. INSTR.			
MISCELLANEOUS										
EXPERIMENTATION										
TEST										
DEMONSTRATION										
FERRY		1						1	1	1.45
SEARCH AND RESCUE										
AIR SHOW/AIR RACING			2					2	1	2.90
PARACHUTE JUMP			1					1	1	1.45
PARACHUTE JUMP-AIR SHOW										
TOWING GLIDERS										
SEEDING CLOUDS										
HUNTING										
POLICE PATROL										
HIGHWAY TRAFFIC ADVISORY										
ALL OTHER PUBLIC FLYING										
OTHER			1		1			2	1	2.90
UNKNOWN/NOT REPORTED										
RECORDS	9	19	22	2	15	2		69		
ACCIDENTS	8	14	17	2	13	2			35	
PERCENTS	13.0	27.5	31.9	2.9	21.7	2.9				



# ANALYTIC TABLE

## FIRST PHASE OF OPERATION BY INJURY INDEX

### INJURY INDEX

#### FIRST OPERATIONAL PHASE

FATAL  
SERIOUS  
MINOR  
NONE

RECORDS ACCIDENTS PERCENT

#### STATIC

STARTING ENGINE/S  
IDLING ENGINE/S  
ENGINE RUNUP  
IDLING ROTORS  
PARKED-ENGINES NOT OPERATING  
OTHER

#### TAXI

TO TAKEOFF  
FROM LANDING  
OTHER  
GROUND TAXI TO TAKEOFF  
GROUND TAXI FROM LANDING  
GROUND TAXI, OTHER  
AERIAL TAXI TO TAKEOFF  
AERIAL TAXI TO/FROM LANDING  
AERIAL TAXI, OTHER

#### TAKEOFF

	FATAL	SERIOUS	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
RUN							
INITIAL CLIMB	1				1	1	1.45
VERTICAL							
RUNNING (ROTORCRAFT/VTOL-STOL)							
ABORTED (FIXED-WING)							
ABORTED (ROTORCRAFT/VTOL)							
ABORTED (ROTORCRAFT/STOL)							
OTHER							

#### INFLIGHT

CLIMB TO CRUISE	2			2	4	3	5.80
NORMAL CRUISE	13	2	2	2	19	10	27.54
DESCENDING	3				3	3	4.35
HOLDING (IFR)							
HOVERING							
POWER-ON DESCENT (ROTORCRAFT)							
AUTOROTATIVE DESCENT							
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT							

# ANALYTIC TABLE

## FIRST PHASE OF OPERATION BY INJURY INDEX

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
EMERGENCY DESCENT							
LOW PASS		1			1	1	1.45
OTHER	8	2			10	5	14.49
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND	1				1	1	1.45
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP	1				1	1	1.45
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	4		2		6	4	8.70
FINAL APPROACH (VFR)	9	1	2		12	7	17.39
INITIAL APPROACH							
FINAL APPROACH (IFR)							
LEVEL OFF/TOUCHDOWN		2	6		8	4	11.59
ROLL (FIXED WING)							
ROLL-ON/RUN-ON (ROTORCRAFT)							
POWER-ON LANDING (ROTORCRAFT)							
POWER-OFF AUTOROTATIVE LDG							
GO-AROUND (VFR)	2				2	2	2.90
MISSED APPROACH (IFR)							
OTHER	1				1	1	1.45
UNKNOWN/NOT REPORTED							
RECORDS	45	4	6	14	69		
ACCIDENTS	23	2	3	7		35	
PERCENTS	65.2	5.8	8.7	20.3			

## ANALYTIC TABLE

## FIRST PHASE OF OPERATION BY AIRCRAFT DAMAGE

AIRCRAFT DAMAGEFIRST  
OPERATIONAL PHASEDESTROYED  
SUBSTANTIAL  
MINOR  
NONERECORDS ACCIDENTS PERCENTSTATICSTARTING ENGINE/S  
IDLING ENGINE/S  
ENGINE RUNUP  
IDLING ROTORS  
PARKED-ENGINES NOT OPERATING  
OTHERTAXITO TAKEOFF  
FROM LANDING  
OTHER  
GROUND TAXI TO TAKEOFF  
GROUND TAXI FROM LANDING  
GROUND TAXI, OTHER  
AERIAL TAXI TO TAKEOFF  
AERIAL TAXI TO/FROM LANDING  
AERIAL TAXI, OTHERTAKEOFF

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
RUN							
INITIAL CLIMB	1				1	1	1.45
VERTICAL							
RUNNING (ROTORCRAFT/VTOL-STOL)							
ABORTED (FIXED-WING)							
ABORTED (ROTORCRAFT/VTOL)							
ABORTED (ROTORCRAFT/STOL)							
OTHER							

INFLIGHT

CLIMB TO CRUISE	2	2			4	3	5.80
NORMAL CRUISE	10	6	3		19	10	27.54
DESCENDING	3				3	3	4.35
HOLDING (IFR)							
HOVERING							
POWER-ON DESCENT (ROTORCRAFT)							
AUTOROTATIVE DESCENT							
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT							

ANALYTIC TABLE  
FIRST PHASE OF OPERATION BY AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE	AIRCRAFT DAMAGE				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
EMERGENCY DESCENT							
LOW PASS		1			1	1	1.45
OTHER	9	1			10	5	14.49
EN ROUTE TO TREAT CRNP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND		1			1	1	1.45
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP	1				1	1	1.45
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	3	2	1		6	4	8.70
FINAL APPROACH (VFR)	8	4			12	7	17.39
INITIAL APPROACH							
FINAL APPROACH (IFR)							
LEVEL OFF/TOUCHDOWN	1	5	1	1	8	4	11.59
ROLL (FIXED WING)							
ROLL-ON/RUN-ON (ROTORCRAFT)							
POWER-ON LANDING (ROTORCRAFT)							
POWER-OFF AUTOROTATIVE LGD							
GO-AROUND (VFR)		2			2	2	2.90
MISSED APPROACH (IFR)							
OTHER	1				1	1	1.45
UNKNOWN/NOT REPORTED							
RECORDS	39	24	5	1	69		
ACCIDENTS	27	19	5	1		35	
PERCENTS	56.5	34.8	7.2	1.4			

## ANALYTIC TABLE

AIRPORT PROXIMITY BY CONDITIONS OF LIGHT  
CONDITION OF LIGHTAIRPORT PROXIMITYDAYLIGHT  
NIGHT/DARK  
NIGHT/BRIGHTRECORDS ACCIDENTS PERCENT

ON AIRPORT	21	2		23	12	33.33
ON SEAPLANE BASE						
ON HELIPORT						
ON BARGE/SHIP/PLATFORM						
IN TRAFFIC PATTERN	6			6	3	8.70
WITHIN 1/4 MILE	4			4	2	5.80
WITHIN 1/2 MILE		2		2	1	2.90
WITHIN 3/4 MILE						
WITHIN 1 MILE						
WITHIN 2 MILES	6			6	3	8.70
WITHIN 3 MILES	3			3	2	4.35
WITHIN 4 MILES	1			1	1	1.45
WITHIN 5 MILES						
BEYOND 5 MILES	23			23	12	33.33
UNKNOWN/NOT REPORTED	1			1	1	1.45
RECORDS	65	2	2	69		
ACCIDENTS	33	1	1		35	
PERCENTS	94.2	2.9	2.9			

## ANALYTIC TABLE

## AIRPORT PROXIMITY BY ALTITUDE OF OCCURRENCE

AIRPORT PROXIMITY	ALTITUDE OF OCCURRENCE						RECORDS	ACCIDENTS	PERCENT
	UNKNOWN/NOT REPORTED	LOWER THAN 1000 FEET	1000 - 1999 FEET	2000 - 2999 FEET	3000 - 3999 FEET	HIGHER THAN 3999 FEET			
ON AIRPORT	14	4		1	4		23	12	33.33
ON SEAPLANE BASE									
ON HELIPORT									
ON BARGE/SHIP/PLATFORM									
IN TRAFFIC PATTERN	6						6	3	8.70
WITHIN 1/4 MILE	2				2		4	2	5.80
WITHIN 1/2 MILE	2						2	1	2.90
WITHIN 3/4 MILE									
WITHIN 1 MILE									
WITHIN 2 MILES	2	2		2			6	3	8.70
WITHIN 3 MILES				3			3	2	4.35
WITHIN 4 MILES		1					1	1	1.45
WITHIN 5 MILES									
BEYOND 5 MILES	4	1	6	6	2	4	23	12	33.33
UNKNOWN/NOT REPORTED	1						1	1	1.45
RECORDS	7	28	10	11	3	10	69		
ACCIDENTS	4	15	5	6	2	5		35	
PERCENTS	10.1	40.6	14.5	15.9	4.3	14.5			

## ANALYTIC TABLE

## TYPE OF FLIGHT PLAN BY INJURY INDEX

<u>TYPE OF FLIGHT PLAN</u>	<u>INJURY INDEX</u>				<u>RECORDS</u>	<u>ACCIDENTS</u>	<u>PERCENT</u>
	FATAL	SERIOUS	MINOR	NONE			
NONE	42	4	6	12	64	34	92.75
VFR	2				2	2	2.90
IFR	1			1	2	2	2.90
CONTROLLED VFR				1	1	1	1.45
IFR (VFR CONDITIONS ON TOP)							
TOWER EN ROUTE CONTROL SERVICE							
DVFR							
VFR FLIGHT FOLLOWING SERVICE							
SPECIAL VFR							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	45	4	6	14	69		
ACCIDENTS	23	2	3	7		35	
PERCENTS	65.2	5.8	8.7	20.3			

## ANALYTIC TABLE

## CONTROLLING AGENCY BY CONTROL ZONE/AREA

CONTROL ZONE/AREA

<u>CONTROLLING AGENCY</u>	YES	NO	UNK/NOT REPORTED	RECORDS	ACCIDENTS	PERCENT
NO CONTROL	3	48	6	57	29	82.61
GROUND CONTROL						
LOCAL CONTROL	2			2	1	2.90
APPROACH CONTROL-DEPARTURE	1			1	1	1.45
APPROACH CONTROL-LANDING	1			1	1	1.45
APCH CTL-TOWER EN ROUTE CTL						
CENTER EN ROUTE		2		2	1	2.90
FLIGHT SERVICE STATION						
TOWER	2			2	2	2.90
UNICOM		2		2	1	2.90
GCA						
UNKNOWN/NOT REPORTED			2	2	1	2.90
RECORDS	9	52	8	69		
ACCIDENTS	5	26	4		35	
PERCENTS	13.0	75.4	11.6			



CAUSE/FACTOR TABLE  
U.S. GENERAL AVIATION ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
1978

(EXCLUDES ACCIDENTS WITHOUT CAUSAL ASSIGNMENT)

INVOLVES 34 TOTAL ACCIDENTS  
INVOLVES 22 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	21 95.45	3 13.64	21 95.45	12 100.00	3 25.00	12 100.00	33 97.06	6 17.65	33 97.06
PERSONNEL	22 100.00	2 9.09	22 100.00	11 91.67	1 8.33	11 91.67	33 97.06	3 8.82	33 97.06
AIRFRAME	.00	.00	.00	.00	.00	.00	.00	.00	.00
LANDING GEAR	.00	.00	.00	.00	.00	.00	.00	.00	.00
POWERPLANT	.00	.00	.00	.00	.00	.00	.00	.00	.00
SYSTEMS	.00	.00	.00	.00	.00	.00	.00	.00	.00
INSTRUMENTS/EQUIPMENT & ACCESSORIES	.00	.00	.00	.00	.00	.00	.00	.00	.00
ROTORCRAFT	.00	.00	.00	.00	.00	.00	.00	.00	.00
AIRPORT/AIRWAYS/FACILITIES	.00	.00	.00	.00	.00	.00	.00	.00	.00
WEATHER	.00	.00	.00	.00	.00	.00	.00	.00	.00
TERRAIN	.00	.00	.00	.00	1 8.33	1 8.33	.00	1 2.94	1 2.94
MISCELLANEOUS	.00	.00	.00	.00	.00	.00	.00	.00	.00
UNDETERMINED	.00	.00	.00	.00	.00	.00	.00	.00	.00

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

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

## CAUSE/FACTOR TABLE

U.S. GENERAL AVIATION ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
1978

(EXCLUDES ACCIDENTS WITHOUT CAUSAL ASSIGNMENT)

INVOLVES 34 TOTAL ACCIDENTS

INVOLVES 22 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
DELAYED IN INITIATING GO-AROUND		1	1					1	1
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT	2	2	4		2	2	2	4	6
FAILED TO SEE AND AVOID OTHER AIRCRAFT	27		27	20		20	47		47
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT	1	2	3				1	2	3
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC	5		5		2	2	5	2	7
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING					2	2		2	2
SELECTED UNSUITABLE TERRAIN				1		1	1		1
SPONTANEOUS-IMPROPER ACTION		1	1					1	1
MISJUDGED CLEARANCE	3		3				3		3
SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND	1		1				1		1
SUBTOTAL	39	6	45	21	6	27	60	12	72
DUAL STUDENT									
FAILED TO SEE OTHER AIRCRAFT	1		1				1		1
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC	1		1				1		1
SUBTOTAL	2		2				2		2
** PERSONNEL **									
RULES, REGULATIONS, STANDARDS PERSONNEL									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
FAILURE TO ADVISE OF OTHER TRAFFIC	2		2		2	2	2	2	4
INADEQUATE SPACING OF AIRCRAFT	2		2				2		2
FAILURE TO PROPERLY IDENTIFY AIRCRAFT ON RADAR					1	1		1	1
OTHER		1	1					1	1
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN-PERSONNEL									
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT	31	1	32	18		18	49	1	50
THIRD PILOT									
FLIGHT ENGINEER									
FLIGHT PERSONNEL									
DISPATCHING (AIR CARRIER ONLY)									
SUBTOTAL	35	2	37	18	3	21	53	5	58
** TERRAIN **									
WET, SOFT GROUND					1	1		1	1
SUBTOTAL					1	1		1	1
GRAND TOTAL	76	8	84	39	10	49	115	18	133
** MISCELLANEOUS ACTS, CONDITIONS **									
FAILED TO USE LANDING LIGHT(S)	1		1				1		1
ALTIMETER SETTING-INCORRECT		1	1					1	1
CREW COORDINATION-POOR		1	1					1	1
DISREGARD OF GOOD OPERATING PRACTICE					2	2		2	2
POORLY PLANNED APPROACH	1	1	2		1	1	1	2	3
SUNGLARE		2	2					2	2
AIRCRAFT CAME TO REST IN WATER		2	2		1	1		3	3

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
TOUCH AND GO LANDING		2	2					2	2

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

LISTING OF ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
1978  
(IN FILE ORDER SEQUENCE)

FILE NUMBER	AIRCRAFT REGIST.	DATE	LOCATION	AIRCRAFT MAKE	MODEL	INJURY INDEX
1 0021	N7711G	092578	SAN DIEGO,CA	CESSNA	172	FATAL
3 0684	N9534G	040678	PRESTON,ID	CESSNA	A188B	SERIOUS
3 0684	N9724G	040678	PRESTON,ID	CESSNA	A188B	SERIOUS
3 0699	N2210G	020378	LDS ANGELES,CA	CESSNA	182A	FATAL
3 0699	N53645	020378	LDS ANGELES,CA	CESSNA	337G	FATAL
3 0828	N64470	042978	AUGUSTA,KS	VULTEE	BT-13	FATAL
3 0828	N714YS	042978	AUGUSTA,KS	CESSNA	152	FATAL
3 0870	N135RD	052978	NMARICOPA,AZ	SCHWEIZER	1-35	MINOR
3 0870	N6LV	052978	NMARICOPA,AZ	LAISTER	LP-15	MINOR
3 1330	N82941	052178	QUINCY,FL	PIPER	PA-18	NONE
3 1330	N99EA	052178	QUINCY,FL	AMATEUR		NONE
3 1344	N121GW	051878	MEMPHIS,TN	SUD AVTN	DA-20	FATAL
3 1344	N6423K	051878	MEMPHIS,TN	CESSNA	150M	FATAL
3 1472	N114NS	031178	NHUNTINGTON BCH,CA	CESSNA	150L	FATAL
3 1472	N63297	031178	NHUNTINGTON BCH,CA	CESSNA	150M	FATAL
3 1526	N7268Q	070378	NEMPIRE,LA	CESSNA	172	MINOR
3 1526	N734FF	070378	NEMPIRE,LA	CESSNA	172	MINOR
3 1664	N10908	012678	NST JOHNS,AZ	HARVARD	MK4	FATAL
3 1664	N6453F	012678	NST JOHNS,AZ	CESSNA	182	FATAL
3 2089	N100Q	073078	SANTA PAULA,CA	PITTS	S-1S	NONE
3 2089	N99EW	073078	SANTA PAULA,CA	MOONEY	M20E	NONE

LISTING OF ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
1978  
(IN FILE ORDER SEQUENCE)

FILE NUMBER -----	AIRCRAFT REGIST. -----	DATE -----	LOCATION -----	AIRCRAFT MAKE -----	MODEL -----	INJURY INDEX -----
3 2234	N1161Y	080478	RIALTO,CA	CESSNA	150B	FATAL
3 2234	N7317V	080478	RIALTO,CA	BELLANCA	17-30	FATAL
3 2360	N3893W	051178	LAWRENCE,MA	PIPER	PA-32	FATAL
3 2360	N8769C	051178	LAWRENCE,MA	PIPER	PA-32R	FATAL
3 2430	N7038C	091678	RENO,NV	N.AMERICAN	SNJ-4	FATAL
3 2430	N74DW	091678	RENO,NV	N.AMERICAN	AT-6	FATAL
3 2594	N421F	041678	BUTLER,PA	ENTWICKLUNG	B-1	NONE
3 2594	N48891	041678	BUTLER,PA	PIPER	PA-28	NONE
3 2630	N1265W	090878	NGREENFIELD,CA	WEATHERLY	201B	FATAL
3 2630	N2930W	090878	NGREENFIELD,CA	WEATHERLY	201A	FATAL
3 2885	N18123	090278	LOUISVILLE,KY	CESSNA	150	FATAL
3 2885	N4006X	090278	LOUISVILLE,KY	AERO COMDR	100	FATAL
3 2957	N56694	092078	NORTHAMPTON,MA	PIPER	PA-28	NONE
3 2957	N9011C	092078	NORTHAMPTON,MA	PIPER	PA-28R	NONE
3 3174	N36762	092278	NCONCORD,CA	PIPER	PA-28	FATAL
3 3174	N8466J	092278	NCONCORD,CA	CESSNA	150G	FATAL
3 3239	N25357	092678	PLYMOUTH,MA	CESSNA	152	NONE
3 3239	N98263	092678	PLYMOUTH,MA	PIPER	PA-28	NONE
3 3439	N61MP	102178	NEPHRATA,WA	ROLLADN SCH	LS-1-F	FATAL
3 3439	N8391C	102178	NEPHRATA,WA	PIPER	PA-32R	FATAL
3 3452	N2309	101478	TAHLEQUAH,OK	WACO	VKS-7	MINOR

LISTING OF ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
1978  
(IN FILE ORDER SEQUENCE)

FILE NUMBER	AIRCRAFT REGIST.	DATE	LOCATION	AIRCRAFT MAKE	MODEL	INJURY INDEX
3 3452	N71389	101478	TAHLEQUAH,OK	LUSCOMBE	8B	MINOR
3 3513	N916RS	082478	NCOOLIDGE,AZ	TED SMITH	601P	NONE
3 3513	USAF56-3082478		NCOOLIDGE,AZ	CESSNA	T-37B	NONE
3 3602	N3AS	042278	ADRIAN,MI	SCHLEICHER	ASK-13	FATAL
3 3602	N8128M	042278	ADRIAN,MI	CESSNA	182P	FATAL
3 3627	N3292L	112178	MT AIRY,NC	CESSNA	172	FATAL
3 3627	N60442	112178	MT AIRY,NC	CESSNA	150	FATAL
3 3856	N1853H	092878	NRICHLAND HILLS,TX	PIPER	PA-28	FATAL
3 3856	N47979	092878	NRICHLAND HILLS,TX	PIPER	PA-28	FATAL
3 4007	N2542	082078	FORT WAYNE,IN	WOODDELL	PUSHER	FATAL
3 4007	N96544	082078	FORT WAYNE,IN	TAYLORCRAFT	BC12D	FATAL
3 4008	N3217B	080678	EAST MOLINE,IL	PIPER	PA-22	FATAL
3 4008	N8881G	080678	EAST MOLINE,IL	CESSNA	150	FATAL
3 4045	N9444H	062878	JACKSONVILLE,FL	CESSNA	172	NONE
3 4045	N9873J	062878	JACKSONVILLE,FL	CESSNA	150	NONE
3 4109	N11699	081078	ORMOND BEACH,FL	BELLANCA	7GCBC	SERIOUS
3 4109	N30400	081078	ORMOND BEACH,FL	PIPER	J3	SERIOUS
3 4222	N2341G	070178	SAN DIEGO,CA	CESSNA	182	FATAL
3 4222	N9378U	070178	SAN DIEGO,CA	CESSNA	150	FATAL
3 4364	N39CF	053078	NDILLINGHAM,AK	CESSNA	180	FATAL
3 4364	N82991	053078	NDILLINGHAM,AK	PIPER	PA-18	FATAL

LISTING OF ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
1978  
(IN FILE ORDER SEQUENCE)

FILE NUMBER -----	AIRCRAFT REGIST. -----	DATE -----	LOCATION -----	AIRCRAFT MAKE -----	MODEL -----	INJURY INDEX -----
3 4382	N1158A	052178	ROCKY COVE,AK	PIPER	PA-18	FATAL
3 4382	N5882D	052178	ROCKY COVE,AK	PIPER	PA-18	FATAL
3 4437	N757VU	090378	ANCHORAGE,AK	CESSNA	152	FATAL
3 4437	N7696S	090378	ANCHORAGE,AK	BELLANCA	7GCBC	FATAL
3 4440	N5131H	102778	GALLIPOLIS,OH	CESSNA	172M	FATAL
3 4440	N94743	102778	GALLIPOLIS,OH	ERCO	415-CD	FATAL

NATIONAL TRANSPORTATION SAFETY BOARD

WASHINGTON, D. C. 20594

BRIEFS OF ACCIDENTS  
INVOLVING MIDAIR COLLISIONS  
U.S. GENERAL AVIATION  
(IN STATE AND DATE SEQUENCE)

1978

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4382	5/21/78 TIME - 1030	ROCKY COVE, AK	PIPER PA-18 N5882D DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL AERIAL SURVEY	ATP, FLIGHT INSTR., AGE 33, 4478 TOTAL HOURS, 328 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT INSKIN BAY, AK	INTENDED DESTINATION ROCKY COVE, AK			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT OTHER	
PROBABLE CAUSE(S)						
PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S)						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV.						
CONTROLLING AGENCY - NO CONTROL						
TRAFFIC ADVISORY ISSUED - NONE						
EVASIVE ACTION TAKEN - NO						
REMARKS- FISH SPOTTING.						
RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT						
CONTROL ZONE/AREA - NO						
ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						



## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4382	5/21/78 TIME - 1030	ROCKY COVE, AK	PIPER PA-18 N1158A DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL AERIAL SURVEY	COMMERCIAL, AGE 52, 2713 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT UNKNOWN/NOT REPORTED	INTENDED DESTINATION ROCKY COVE, AK			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT OTHER		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S)						
MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV.						
CONTROLLING AGENCY - NO CONTROL						
TRAFFIC ADVISORY ISSUED - NONE						
EVASIVE ACTION TAKEN - NO						
REMARKS- FISH SPOTTING.						
3-4364	5/30/78 TIME - 1215	NR. DILLINGHAM, AK	CESSNA 180 N39CF DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0 OT- 1 0 0	COMMERCIAL FISH SPOTTING	COMMERCIAL, FL. INSTR., AGE 27, 2500 TOTAL HOURS, UNK/NR IN TYPE, INSTRU- MENT RATED.
		DEPARTURE POINT BRISTOL BAY, AK	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S)						
PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV.						
CONTROLLING AGENCY - NO CONTROL						
TRAFFIC ADVISORY ISSUED - NONE						
EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED						
FIRE AFTER IMPACT						
REMARKS- FLOAT EQUIPPED.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4364	5/30/78 TIME - 1215	NR.DILLINGHAM,AK	PIPER PA-18 N82991 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 2 0 0	COMMERCIAL FISH SPOTTING	COMMERCIAL, AGE 46, 6165 TOTAL HOURS, 2020 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT UNKNOWN/NOT REPORTED	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S)						
PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.						
CONTROLLING AGENCY - NO CONTROL			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT			
TRAFFIC ADVISORY ISSUED - NONE			CONTROL ZONE/AREA - NO			
EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED						
3-4437	9/3/78 TIME - 2115	ANCHORAGE,AK	BELLANCA 7GCBC N7696S DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	MISCELLANEOUS FERRY	PRIVATE, AGE 29, UNK/NR TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - MERRILL FIELD				
		DEPARTURE POINT HOMER,AK	INTENDED DESTINATION ANCHORAGE,AK			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION LANDING TRAFFIC PATTERN-CIRCLING		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC.						
MISCELLANEOUS ACTS,CONDITIONS - FAILED TO USE LANDING LIGHT(S)						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.						
CONTROLLING AGENCY - NO CONTROL			CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT			
CONTROL ZONE/AREA - YES			HORIZONTAL COLLISION ANGLE-DEGREES - 150			
EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED			ANTI-COLLISION LIGHTS - NOT OPERATING			
REMARKS- DARK NIGHT. PILOT FAILED TO INSURE THAT ACFT CLEARANCE/COLLISION LIGHTS WERE ILLUMINATED.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4437	9/3/78 TIME - 2115	ANCHORAGE, AK	CESSNA 152 N757VU DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 18, UNK/NR TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MERRILL FIELD DEPARTURE POINT INTENDED DESTINATION ANCHORAGE, AK LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING OTHER  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - TOUCH AND GO LANDING  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - TOWER TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES HORIZONTAL COLLISION ANGLE-DEGREES - 150 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED ANTI-COLLISION LIGHTS - OPERATING REMARKS- PHASE-360 FOR SPACING ON FINAL. UNABL TO VISUAL ACQUIRE OTH ACFT. DARK NHT, OTH ACFT NOT ILLUM.						
3-1664	1/26/78 TIME - 1245	NR. ST JOHNS, AZ	HARVARD MK4 N10908 DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 51, 1642 TOTAL HOURS, 432 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION ST JOHNS, AZ HOLBROOK, AZ TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT NORMAL CRUISE  PROBABLE CAUSE(S) PILOT IN COMMAND - MISJUDGED CLEARANCE  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO VERTICAL COLLISION ANGLE-DEGREES - 90 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- CROSS-UNDER MANEUVER TO TAKE PHOTOGRAPHS.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1664	1/26/78 TIME - 1245	NR.ST JOHNS,AZ	CESSNA 182 N6453F DAMAGE-DESTROYED INTENDED DESTINATION HOLBROOK,AZ	CR- 1 0 0 PX- 0 0 0 DT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 36, 107 TOTAL HOURS, 37 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT ST JOHNS,AZ		PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT				
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT VERTICAL COLLISION ANGLE-DEGREES - 90 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-0870	5/29/78 TIME - 1330	NR.MARICOPA,AZ	LAISTER LP-15 N6LV DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 DT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL.INSTR., AGE 56, 1082 TOTAL HOURS, 129 IN TYPE, NOT INSTRU- MENT RATED.
		DEPARTURE POINT MARICOPA,AZ	INTENDED DESTINATION LOCAL	PHASE OF OPERATION IN FLIGHT OTHER		
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT				
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - NOT INSTALLED REMARKS- BOTH GLIDERS WORKING THERMALS. RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT EVASIVE ACTION TAKEN - NO						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0870	5/29/78 TIME - 1330	NR.MARICOPA,AZ	SCHWEIZER 1-35 N135RD DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 31, 733 TOTAL HOURS, 170 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT MARICOPA,AZ	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT OTHER		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - NOT INSTALLED						
REMARKS- BOTH GLIDERS WORKING THERMALS.						
3-3513	8/24/78 TIME - 1225	NR.COOLIDGE,AZ	CESSNA T-37B USAF56-3 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 5	MISCELLANEOUS PARAJUMP-SPORT	COMMERCIAL, AGE 30, 1987 TOTAL HOURS, 359 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT WILLIAMS AFB,AZ	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT CLIMB TO CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PERSONNEL - TRAFFIC CONTROL PERSONNEL FAILURE TO ADVISE OF OTHER TRAFFIC						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-US MILITARY CONTROLLING AGENCY - CENTER EN-ROUTE TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - NO						
RADAR CTL/SURVEILLANCE - UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3513	8/24/78 TIME - 1225	NR.COOLIDGE,AZ	TED SMITH 601P N916RS DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 4 OT- 0 0 2	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 32, 2140 TOTAL HOURS, 93 IN TYPE, INSTRUMENT RATED.
DEPARTURE POINT PHOENIX,AZ INTENDED DESTINATION MIDLAND,TX TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT PHASE OF OPERATION IN FLIGHT CLIMB TO CRUISE PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PERSONNEL - TRAFFIC CONTROL PERSONNEL FAILURE TO ADVISE OF OTHER TRAFFIC PERSONNEL - TRAFFIC CONTROL PERSONNEL FAILURE TO PROPERLY IDENTIFY AIRCRAFT ON RADAR SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-US MILITARY CONTROLLING AGENCY - CENTER EN-ROUTE TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - NO RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-0699	2/3/78 TIME - 1025	LDS ANGELES,CA	CESSNA 337G N53645 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL BUSINESS	COMMERCIAL, FL.INSTR., AGE 33, 2132 TOTAL HOURS, 213 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - HUGHES DEPARTURE POINT LONG BEACH,CA INTENDED DESTINATION SAN FERNANDO,CA TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT PHASE OF OPERATION IN FLIGHT NORMAL CRUISE PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO VERTICAL COLLISION ANGLE-DEGREES - 43 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN FIRE AFTER IMPACT REMARKS- GRD IMPACT DESTROYED 2 CARS,DAMAGED 8 CARS,PWR CABLES,TELEPHONE LINES SEVERED,BUILDING DAMAGED.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0699	2/3/78 TIME - 1025	LOS ANGELES,CA	CESSNA 182A N2210G DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL SOLO	STUDENT, AGE 43, 61 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - HUGHES DEPARTURE POINT FULLERTON,CA	INTENDED DESTINATION SANTA MARIA,CA			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE			
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO VERTICAL COLLISION ANGLE-DEGREES - 43 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-1472	3/11/78 TIME - 1500	NR.HUNTINGTON BCH,CA	CESSNA 150M N63297 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL SOLO	STUDENT, AGE 46, 23 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT SANTA ANA,CA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE			
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - YES						
		RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN				
3-1472	3/11/78 TIME - 1500	NR.HUNTINGTON BCH,CA	CESSNA 150L N114NS DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	INSTRUCTIONAL SOLO	STUDENT, AGE 43, 180 TOTAL HOURS, 60 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT SANTA ANA,CA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE			
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - NO						
		RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN				

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4222	7/1/78 TIME - 1558	SAN DIEGO, CA	CESSNA 150 N9378U DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 DT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 58, 15325 TOTAL HOURS, UNK/NR IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - MONTGOMERY FIELD DEPARTURE POINT INTENDED DESTINATION CHULA VISTA, CA CARLSBAD, CA TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT NORMAL CRUISE  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL CONTROL ZONE/AREA - YES HORIZONTAL COLLISION ANGLE-DEGREES - 160 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED ANTI-COLLISION LIGHTS - OPERATING REMARKS- N9378U LND MONTGMRY FLD WITHOUT FURTHER DMG TO ACFT FOLLOWING COLL, LOSS OF RT AND NOSE GEAR.						
3-4222	7/1/78 TIME - 1558	SAN DIEGO, CA	CESSNA 182 N2341G DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 DT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 45, 1007 TOTAL HOURS, UNK/NR IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - MONTGOMERY FIELD DEPARTURE POINT INTENDED DESTINATION SAN DIEGO, CA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT NORMAL CRUISE  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL CONTROL ZONE/AREA - YES HORIZONTAL COLLISION ANGLE-DEGREES - 160 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED ANTI-COLLISION LIGHTS - OPERATING FIRE AFTER IMPACT REMARKS- N2341G CRASHED IN RAVINE FIRE DESTROYD BRUSH. NOSEWHEEL FROM N9378U STRUCK ROOF OF A PARKED CAR.						



## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2089	7/30/78	SANTA PAULA, CA	MOONEY M20E N99EW	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 31, 180 TOTAL HOURS, 52 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SANTA PAULA DEPARTURE POINT INTENDED DESTINATION EL MONTE, CA SANTA PAULA, CA TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC.  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- INFLIGHT DAMAGE TO LH COWL, TOP FUSELAGE, VERT FIN, AND LEFT HORIZONTAL STAB. LANDED OK.						
3-2089	7/30/78	SANTA PAULA, CA	PITTS S-1S N1000	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	CUMMERICAL, AGE 55, 917 TOTAL HOURS, 54 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SANTA PAULA DEPARTURE POINT INTENDED DESTINATION EL MONTE, CA SANTA PAULA, CA TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC.  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - NOT INSTALLED REMARKS- BOTH MAIN LANDING GEAR FRACTURED UPON IMPACT WITH OTHER A/C IN FLIGHT. PITTS LANDED ON BELLY.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2234	8/4/78 TIME - 1803	RIALTO,CA	BELLANCA 17-30 N7317V DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 53, 2006 TOTAL HOURS, 120 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - RIALTO MUNI DEPARTURE POINT INTENDED DESTINATION SANTA PAULA,CA RIALTO,CA TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING GO-AROUND  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-2234	8/4/78 TIME - 1803	RIALTO,CA	CESSNA 150B N1161Y DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 1 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 23, 49 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - RIALTO MUNI DEPARTURE POINT INTENDED DESTINATION ONTARIO,CA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT TAKEOFF INITIAL CLIMB  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - TOUCH AND GO LANDING  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 180 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2630	9/8/78	NR.GREENFIELD,CA	WEATHERLY 201A N2930W DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITY	COMMERCIAL, AGE 31, UNK/NR TOTAL HOURS, 1000 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - METZ AIRSTRIP DEPARTURE POINT INTENDED DESTINATION GREENFIELD,CA RETURN TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT RETURN TO STRIP  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT  SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF OPERATION - FERRY PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED CRASH HELMET - AVAILABLE USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - UNKNOWN/NOT REPORTED  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO						
3-2630	9/8/78	NR.GREENFIELD,CA	WEATHERLY 201B N1265W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 32, 6500 TOTAL HOURS, 3300 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - METZ AIRSTRIP DEPARTURE POINT INTENDED DESTINATION GREENFIELD,CA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT PROCEDURE TURNAROUND  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA TOTAL HOURS IN CROP CONTROL - UNKNOWN/NOT REPORTED KIND OF OPERATION - SPRAYING CROPS KIND OF CROP - LETTUCE TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - UNKNOWN/NOT REPORTED TERRAIN-TYPE - LEVEL,FLAT ELEVATION-AREA BEING TREATED-FEET - 230 SWATH RUN-HOW FLOWN - WIND CALM PROCEDURE TURNAROUND - FIRST 1/3 TURN  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3174	9/22/78	NR.CONCORD,CA	CESSNA 150G N8466J	CR- 0 0 1 PX- 0 0 0 OT- 2 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 23, 164 TOTAL HOURS, 152 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT CONCORD,CA	INTENDED DESTINATION RIO VISTA,CA			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONVERGENCE ANGLE-DEGREES - 22 EVASIVE ACTION TAKEN - NO						
REMARKS- L MAIN GEAR/STRUT & R BRAKE LINE FAILED DURING MID-AIR.ACFT DEP RHW ON LNDG ROLL.						
3-3174	9/22/78	NR.CONCORD,CA	PIPER PA-28 N36762	CR- 2 0 0 PX- 0 0 0 OT- 0 0 1	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 28, 582 TOTAL HOURS, 500 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT CONCORD,CA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT DUAL STUDENT - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - SUNGLARE						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONVERGENCE ANGLE-DEGREES - 12 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED						
RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 145 ANTI-COLLISION LIGHTS - NOT INSTALLED						
ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
1-0021	9/25/78 TIME - 0902	SAN DIEGO, CA	CESSNA 172 N7711G DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0 OT-142 0 16	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 32, 5137 TOTAL HOURS, UNK/NR IN TYPE, INSTRU- MENT RATED.
NAME OF AIRPORT - LINDBERGH FIELD DEPARTURE POINT INTENDED DESTINATION SAN DIEGO, CA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT CLIMB TO CRUISE  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PERSONNEL - TRAFFIC CONTROL PERSONNEL OTHER  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-US AIR CARRIER CONTROLLING AGENCY - APPROACH CTL-DEPARTURE RADAR CTL/SURVEILLANCE - UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES EVASIVE ACTION TAKEN - NO REMARKS- ATC PROC AUTH CONTROLLERS TO USE VISUAL SEPARATION PROC, RADAR CAPABILITY AVAILABLE.						
3-1330	5/21/78 TIME - 1230	QUINCY, FL	AMATEUR N99EA DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 51, 800 TOTAL HOURS, 70 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - QUINCY DEPARTURE POINT INTENDED DESTINATION QUINCY, FL LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1330	5/21/78 TIME - 1230	QUINCY, FL	PIPER PA-18 N82941 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL. INSTR., AGE 34, 6700 TOTAL HOURS, 30 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - QUINCY DEPARTURE POINT INTENDED DESTINATION QUINCY, FL LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN						
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO						
3-4045	6/28/78 TIME - 1030	JACKSONVILLE, FL	CESSNA 150 N9873J DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 0 0 4	MISCELLANEOUS OTHER	COMMERCIAL, AGE 53, 3712 TOTAL HOURS, 240 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION JACKSONVILLE, FL LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT NORMAL CRUISE						
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - UNKNOWN/NOT REPORTED EVASIVE ACTION TAKEN - YES						
REMARKS- ACFT COLLIDED WHILE FORMATION FLYING ON PHOTO MISSION-BOTH ACFT LANDED SAFELY.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4045	6/28/78 TIME - 1030	JACKSONVILLE, FL	CESSNA 172 N9444H DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 3 OT- 0 0 1	MISCELLANEOUS OTHER	COMMERCIAL, FL. INSTR., AGE 32, 3412 TOTAL HOURS, 240 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT JACKSONVILLE, FL	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - YES						
REMARKS- ACFT COLLIDED WHILE FORMATION FLYING ON PHOTO MISSTON-BOTH ACFT LANDED SAFELY.						
3-4109	8/10/78 TIME - 1800	ORMOND BEACH, FL	PIPER J3 N30400 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 1 0	COMMERCIAL AERIAL ADVERTISING	COMMERCIAL, FL. INSTR., AGE 24, 966 TOTAL HOURS, 219 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT ORMOND BEACH, FL	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
		NOSE OVER/DOWN		LANDING LEVEL OFF/TOUCHDOWN		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PILOT IN COMMAND - SELECTED UNSUITABLE TERRAIN						
FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - DISREGARD OF GOOD OPERATING PRACTICE TERRAIN - WET, SOFT GROUND EMERGENCY CIRCUMSTANCES - PRECAUTIONARY LANDING OFF AIRPORT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - UNKNOWN/NOT REPORTED						
REMARKS- TOWING BANNER WITH N11699-AFTER DROPPING BANNERS ACFT COLLIDED WHILE PLEASURE FLYING.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4109	8/10/78 TIME - 1800	ORMOND BEACH, FL	BELLANCA 7GCBC N11699 DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0 DT- 0 0 1	COMMERCIAL AERIAL ADVERTISING	COMMERCIAL, AGE 28, 1320 TOTAL HOURS, 528 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT ORMOND BEACH, FL	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - DISREGARD OF GOOD OPERATING PRACTICE						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - UNKNOWN/NOT REPORTED						
REMARKS- TOWING BANNER WITH N30400-AFTER DROPPING BANNERS ACFT COLLIDED WHILE PLEASURE FLYING.						
3-0684	4/6/78 TIME - 0825	PRESTON, ID	CESSNA A1888 N9724G DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0 DT- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITY	COMMERCIAL, AGE 59, 8721 TOTAL HOURS, 3215 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - PRESTON DEPARTURE POINT PRESTON, ID	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION LANDING LEVEL OFF/TOUCHDOWN		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 7000 KIND OF CROP - GRAIN FIELDS PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT						
KIND OF OPERATION - FERTILIZING (LIQUID) TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - INSTALLED ELEVATION-AREA BEING TREATED- FEET - 4700						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 360 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
REMARKS- HIT REAR OF N9534G DURING LEVEL OFF.						



## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0684	4/6/78 TIME - 0825	PRESTON, ID	CESSNA A1888 N9534G DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 0 1 0	COMMERCIAL ASSOC CROP CTL ACTIVITY	COMMERCIAL, AGE 27, 1737 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - PRESTON DEPARTURE POINT INTENDED DESTINATION PRESTON, ID LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN						
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 1200 KIND OF CROP - GRAIN FIELDS PILOT'S SEAT BELT - FASTENED-PROPERLY GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT KIND OF OPERATION - FERTILIZING (LIQUID) TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - INSTALLED ELEVATION-AREA BEING TREATED- FEET - 4700						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 180 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- OTR ACFT HIT N9534G FRM REAR DURING LEVEL OFF.						
3-4008	8/6/78 TIME - 1140	EAST MOLINE, IL	CESSNA 150 N8881G DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PRACTICE	STUDENT, AGE 18, 40 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WOODS DEPARTURE POINT INTENDED DESTINATION EAST MOLINE, IL EAST MOLINE, IL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING FINAL APPROACH						
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 90 EVASIVE ACTION TAKEN - NO RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 45 VERTICAL COLLISION ANGLE-DEGREES - 0 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4008	8/6/78 TIME - 1140	EAST MOLINE, IL	PIPER PA-22 N32178 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL. INSTR., AGE 48, 6323 TOTAL HOURS, 1900 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WOODS DEPARTURE POINT EAST MOLINE, IL TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - POORLY PLANNED APPROACH  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 90 EVASIVE ACTION TAKEN - NO  INTENDED DESTINATION EAST MOLINE, IL  PHASE OF OPERATION LANDING FINAL APPROACH  RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 45 VERTICAL COLLISION ANGLE-DEGREES - 0 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
3-4007	8/20/78 TIME - 0925	FORT WAYNE, IN	TAYLORCRAFT BC12D N96544 DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0 OT- 0 1 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 25, 437 TOTAL HOURS, 119 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT FORT WAYNE, IN TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONVERGENCE ANGLE-DEGREES - 45 VERTICAL COLLISION ANGLE-DEGREES - 0 REMARKS- FLYING THROUGH PAPER STREAMERS.  INTENDED DESTINATION LOCAL  PHASE OF OPERATION IN FLIGHT OTHER  RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 90 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4007	8/20/78	FORT WAYNE, IN	WOODDELL PUSHER N2542	CR- 0 1 0 PX- 0 0 0 OT- 2 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 24, 463 TOTAL HOURS, 6 IN TYPE, NOT INSTRUMENT RATED.
	TIME - 0925		DAMAGE-SUBSTANTIAL			
	DEPARTURE POINT		INTENDED DESTINATION			
	FORT WAYNE, IN		LOCAL			
	TYPE OF ACCIDENT			PHASE OF OPERATION		
	COLLISION WITH AIRCRAFT	BOTH IN FLIGHT		IN FLIGHT OTHER		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV.						
CONTROLLING AGENCY - NO CONTROL						
TRAFFIC ADVISORY ISSUED - NONE						
CONVERGENCE ANGLE-DEGREES - 45						
VERTICAL COLLISION ANGLE-DEGREES - 0						
REMARKS- FLYING THROUGH PAPER STREAMERS.						
3-0828	4/29/78	AUGUSTA, KS	CESSNA 152 N714YS	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 31, 96 TOTAL HOURS, 73 IN TYPE, NOT INSTRUMENT RATED.
	TIME - 1405		DAMAGE-DESTROYED			
	NAME OF AIRPORT - AUGUSTA MUNI					
	DEPARTURE POINT		INTENDED DESTINATION			
	AUGUSTA, KS		LOCAL			
	TYPE OF ACCIDENT			PHASE OF OPERATION		
	COLLISION WITH AIRCRAFT	BOTH IN FLIGHT		LANDING FINAL APPROACH		
PROBABLE CAUSE(S)						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV.						
CONTROLLING AGENCY - NO CONTROL						
TRAFFIC ADVISORY ISSUED - NONE						
CONTROL ZONE/AREA - NO						
EVASIVE ACTION TAKEN - NO						
RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE						
CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT						
CONVERGENCE ANGLE-DEGREES - 180						
ANTI-COLLISION LIGHTS - OPERATING						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N			FLIGHT PURPOSE	PILOT DATA
3-0828	4/29/78 TIME - 1405	AUGUSTA,KS	VULTEE BT-13 N64470 DAMAGE-DESTROYED	CR- PX- OT-	1 0 1	0 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 67, 717 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - AUGUSTA MUNI DEPARTURE POINT INTENDED DESTINATION BENTON,KS RETURN TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING FINAL APPROACH  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PILOT IN COMMAND - FAILED TO USE OR INCORRECTLY USED MISC.EQUIPMENT PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC.  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - NOT INSTALLED								
3-2885	9/2/78 TIME - 1327	LOUISVILLE,KY	AERO COMDR 100 N4006X DAMAGE-MINOR	CR- PX- OT-	0 0 2	0 1 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 30, 109 TOTAL HOURS, 15 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BOWMAN FIELD DEPARTURE POINT INTENDED DESTINATION LOUISVILLE,KY LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING TRAFFIC PATTERN-CIRCLING  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC.  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - LOCAL CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - OPERATING REMARKS- N4006X OBSERVED TRAVELING OPPOSITE TRAFFIC PATTERN THEN ENTERING DIRECTLY ABOVE AN ACFT ON DOWNWD.								

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2885	9/2/78 TIME - 1327	LOUISVILLE, KY	CESSNA 150 N18123 DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	ATP, FLIGHT INSTR., AGE 27, 6900 TOTAL HOURS, UNK/NR IN TYPE, INSTRU- MENT RATED.
NAME OF AIRPORT - BOWMAN FIELD DEPARTURE POINT INTENDED DESTINATION LOUISVILLE, KY LOCAL TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT PHASE OF OPERATION LANDING TRAFFIC PATTERN-CIRCLING PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - LOCAL CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - OPERATING						
3-1526	7/3/78 TIME - 1845	NR. EMPIRE, LA	CESSNA 172 N734FF DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	COMMERCIAL FISH SPOTTING	COMMERCIAL, AGE 52, 30000 TOTAL HOURS, 1190 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION PORT SULPHUR, LA LOCAL TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT PHASE OF OPERATION IN FLIGHT NORMAL CRUISE PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT MISCELLANEOUS ACTS, CONDITIONS - AIRCRAFT CAME TO REST IN WATER SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- OBSERVING COMPANY FISHING BOAT'S CATCH.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1526	7/3/78 TIME - 1845	NR.EMPIRE,LA	CESSNA 172 N72680 DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	COMMERCIAL FISH SPOTTING	AIRLINE TRANSPORT, AGE 46, 17400 TOTAL HOURS, 5000 IN TYPE, NOT INSTRU- MENT RATED.
		DEPARTURE POINT PORT SULPHUR,LA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT NORMAL CRUISE		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - NO						
REMARKS- CIRCLING ABOVE N734FF AND WAITING TO OBSERVE FISHING BOATS CATCH.						
3-2360	5/11/78 TIME - 1607	LAWRENCE,MA	PIPER PA-32R N8769C DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 2 0 0	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, AGE 22, 1400 TOTAL HOURS, 100 IN TYPE, INSTRUMENT RATED.
		NAME OF AIRPORT - LAWRENCE DEPARTURE POINT BEDFORD,MA	INTENDED DESTINATION LAWRENCE,MA			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT DESCENDING		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - YES						
RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2360	5/11/78	LAWRENCE,MA	PIPER PA-32 N3893W DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL CHECK	STUDENT, AGE 54, 64 TOTAL HOURS, 29 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LAWRENCE DEPARTURE POINT INTENDED DESTINATION LAWRENCE,MA PITTSFIELD,MA TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT CLIMB TO CRUISE PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - SUNGLARE SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT EVASIVE ACTION TAKEN - YES						
3-2957	9/20/78	NORTHAMPTON,MA	PIPER PA-28 N56694 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 1	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 33, 1688 TOTAL HOURS, 40 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - LAFLEUR DEPARTURE POINT INTENDED DESTINATION NORTHAMPTON,MA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO REMARKS- BROKE GLIDE OVR RWY NUMBERS.CTCTD OTR ACFT BELOW THIS ONE.N9011C SUBSTANTIAL DMG.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2957	9/20/78 TIME - 1500	NORTHAMPTON,MA	PIPER PA-28R N9011C DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL.INSTR., AGE 42, 9800 TOTAL HOURS, 200 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - LAFLEUR DEPARTURE POINT INTENDED DESTINATION TURNERS FALLS,MA NORTHAMPTON,MA TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO REMARKS- N9011C OBSVD MAKING A WIDE LOW PATTERN AND UNDERRAN N56694.						
3-3239	9/26/78 TIME - 1630	PLYMOUTH,MA	PIPER PA-28 N98263 DAMAGE-NONE	CR- 0 0 2 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 32, 516 TOTAL HOURS, 369 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - PLYMOUTH DEPARTURE POINT INTENDED DESTINATION PLYMOUTH,MA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - UNICOM RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - BY UNICOM CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						



## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3239	9/26/78 TIME - 1630	PLYMOUTH, MA	CESSNA 152 N25357 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	CUMMERICAL, FL. INSTR., AGE 26, 520 TOTAL HOURS, 504 IN TYPE, NOT INSTRU- MENT RATED.
NAME OF AIRPORT - PLYMOUTH DEPARTURE POINT INTENDED DESTINATION PLYMOUTH, MA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING LEVEL OFF/TOUCHDOWN PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - UNICOM RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - BY UNICOM CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 180 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
3-3602	4/22/78 TIME - 1850	ADRIAN, MI	CESSNA 182P N8128M DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 1 0 0	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 24, 76 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - LENAWEE COUNTY DEPARTURE POINT INTENDED DESTINATION ADRIAN, MI ADRIAN, MI TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING GO-AROUND PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - DELAYED IN INITIATING GO-AROUND PILOT IN COMMAND - SPONTANEOUS-IMPROPER ACTION SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 55 HORIZONTAL COLLISION ANGLE-DEGREES - 65 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3602	4/22/78	ADRIAN,MI	SCHLEICHER ASK-13	CR- 1 0 0	NONCOMMERCIAL	STUDENT, AGE 48, 23 TOTAL
	TIME - 1850		N3AS	PX- 0 0 0	PLEASURE/PERSONAL TRANSP	HOURS, 21 IN TYPE, NOT
			DAMAGE-DESTROYED	OT- 0 0 2		INSTRUMENT RATED.
		NAME OF AIRPORT - LENAWEE COUNTY				
		DEPARTURE POINT	INTENDED DESTINATION			
		ADRIAN,MI	ADRIAN,MI			
		TYPE OF ACCIDENT		PHASE OF OPERATION		
		COLLISION WITH AIRCRAFT BOTH IN FLIGHT		LANDING FINAL APPROACH		
		PROBABLE CAUSE(S)				
		PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT				
		PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC.				
		PILOT IN COMMAND - SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND				
		FACTOR(S)				
		PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT				
		SPECIAL DATA				
		SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.				
		CONTROLLING AGENCY - NO CONTROL			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT	
		TRAFFIC ADVISORY ISSUED - NONE			CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT	
		CONTROL ZONE/AREA - NO			CONVERGENCE ANGLE-DEGREES - 60	
		HORIZONTAL COLLISION ANGLE-DEGREES - 65			VERTICAL COLLISION ANGLE-DEGREES - 0	
		EVASIVE ACTION TAKEN - NO			ANTI-COLLISION LIGHTS - NOT INSTALLED	
3-2430	9/16/78	RENO,NV	N.AMERICAN AT-6	CR- 1 0 0	MISCELLANEOUS	COMMERCIAL, AGE 40, 2000
	TIME - 1436		N74DW	PX- 0 0 0	AIR SHOW/RACING	TOTAL HOURS, 600 IN TYPE,
			DAMAGE-DESTROYED	OT- 1 0 0		NOT INSTRUMENT RATED.
		NAME OF AIRPORT - RENO STEAD				
		DEPARTURE POINT	INTENDED DESTINATION			
		RENO,NV	LOCAL			
		TYPE OF ACCIDENT		PHASE OF OPERATION		
		COLLISION WITH AIRCRAFT BOTH IN FLIGHT		IN FLIGHT OTHER		
		PROBABLE CAUSE(S)				
		PILOT IN COMMAND - MISJUDGED CLEARANCE				
		PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT				
		SPECIAL DATA				
		SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.				
		CONTROLLING AGENCY - NO CONTROL			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT	
		TRAFFIC ADVISORY ISSUED - NONE			CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT.	
		CONTROL ZONE/AREA - NO				
		REMARKS- COLLIDED AT PYLON DURING AIR RACE.				

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2430	9/16/78	RENO,NV	N.AMERICAN SNJ-4 N7038C DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	MISCELLANEOUS AIR SHOW/RACING	COMMERCIAL, AGE 39, 1444 TOTAL HOURS, 250 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - RENO STEAD DEPARTURE POINT INTENDED DESTINATION RENO,NV LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT OTHER PROBABLE CAUSE(S) PILOT IN COMMAND - MISJUDGED CLEARANCE PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO REMARKS- COLLIDED AT PYLON DURING AIR RACE.						
3-3627	11/21/78	MT AIRY,NC	CESSNA 172 N3292L DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 37, 500 TOTAL HOURS, UNK/NR IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - MT AIRY DEPARTURE POINT INTENDED DESTINATION MT STERLING,KY GREENSBORO,NC TYPE OF ACCIDENT LAST ENROUTE STOP COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT DESCENDING PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3627	11/21/78 TIME - 1630	MT AIRY, NC	CESSNA 150 N60442 DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL SOLO	STUDENT, AGE 18, 23 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MT AIRY DEPARTURE POINT ELKINS, NC TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT EVASIVE ACTION TAKEN - NO  INTENDED DESTINATION LOCAL  LAST ENROUTE STOP MT AIRY, NC PHASE OF OPERATION IN FLIGHT NORMAL CRUISE  TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
3-4440	10/27/78 TIME - 1940	GALLIPOLIS, OH	ERCO 415-CD N94743 DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 1 0 OT- 1 2 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 37, 95 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GALLIA-MEIGS DEPARTURE POINT MASON COUNTY, WV TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. REMARKS- UNDER INVESTIGATION.						
3-4440	10/27/78 TIME - 1940	GALLIPOLIS, OH	CESSNA 172M N5131H DAMAGE-DESTROYED	CR- 1 1 0 PX- 0 1 0 OT- 0 2 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL. INSTR., AGE 40, 3120 TOTAL HOURS, 1500 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - GALLIA-MEIGS DEPARTURE POINT RAVENSWOOD, WV TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. REMARKS- UNDER INVESTIGATION.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3452	10/14/78	TAHLEQUAH,OK	LUSCOMBE 8B N71389	CR- 0 0 1 PX- 0 0 1 DT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 26, 184 TOTAL HOURS, 100 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TAHLEQUAH DEPARTURE POINT INTENDED DESTINATION TAHLEQUAH,OK LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT LOW PASS  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - POORLY PLANNED APPROACH  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-3452	10/14/78	TAHLEQUAH,OK	WACO VKS-7 N2309	CR- 0 0 1 PX- 0 0 1 DT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 36, 419 TOTAL HOURS, 174 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - TAHLEQUAH DEPARTURE POINT INTENDED DESTINATION TAHLEQUAH,OK LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING FINAL APPROACH  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2594	4/16/78	BUTLER, PA	PIPER PA-28 N48891 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 56, 1193 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BUTLER-GRAHAM DEPARTURE POINT INTENDED DESTINATION MARS, PA BUTLER, PA TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING TRAFFIC PATTERN-CIRCLING						
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - UNKNOWN/NOT REPORTED TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 180 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
3-2594	4/16/78	BUTLER, PA	ENTWICKLUNG B-1 N421F DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 26, 58 TOTAL HOURS, 3 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BUTLER-GRAHAM DEPARTURE POINT INTENDED DESTINATION BUTLER, PA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING TRAFFIC PATTERN-CIRCLING						
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - UNKNOWN/NOT REPORTED TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 180 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1344	5/18/78	MEMPHIS, TN	CESSNA 150M	CR- 1 0 0	INSTRUCTIONAL	COMMERCIAL, AGE 30, 1615
	TIME - 1210		N6423K	PX- 1 0 0	TRAINING	TOTAL HOURS, UNK/NR IN
			DAMAGE-DESTROYED	OT- 4 0 0		TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - MEMPHIS INTL						
DEPARTURE POINT		INTENDED DESTINATION		LAST ENROUTE STOP		
MEMPHIS, TN		RETURN		WEST MEMPHIS, TN		
TYPE OF ACCIDENT				PHASE OF OPERATION		
COLLISION WITH AIRCRAFT BOTH IN FLIGHT				IN FLIGHT DESCENDING		
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
PERSONNEL - TRAFFIC CONTROL PERSONNEL INADEQUATE SPACING OF AIRCRAFT						
PERSONNEL - TRAFFIC CONTROL PERSONNEL FAILURE TO ADVISE OF OTHER TRAFFIC						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV.						
CONTROLLING AGENCY - TOWER			RADAR CTL/SURVEILLANCE - UNDER RADAR CONTACT			
TRAFFIC ADVISORY ISSUED - NONE			CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT			
CONTROL ZONE/AREA - YES			EVASIVE ACTION TAKEN - NO			
ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
REMARKS- CONTROLLER OF CESSNA NOT AWARE THAT FALCON WAS BEING VECTORED TO TRAVERSE HIS AIRSPACE.						
3-1344	5/18/78	MEMPHIS, TN	SUD AVTN DA-20	CR- 4 0 0	INSTRUCTIONAL	AIRLINE TRANSPORT, AGE
	TIME - 1210		N121GW	PX- 0 0 0	TRAINING	31, 3647 TOTAL HOURS, 350
			DAMAGE-DESTROYED	OT- 2 0 0		IN TYPE, INSTRUMENT
						RATED.
NAME OF AIRPORT - MEMPHIS INTL						
DEPARTURE POINT		INTENDED DESTINATION		PHASE OF OPERATION		
MEMPHIS, TN		LOCAL		LANDING TRAFFIC PATTERN-CIRCLING		
TYPE OF ACCIDENT						
COLLISION WITH AIRCRAFT BOTH IN FLIGHT						
PROBABLE CAUSE(S)						
PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT						
PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
PERSONNEL - TRAFFIC CONTROL PERSONNEL INADEQUATE SPACING OF AIRCRAFT						
PERSONNEL - TRAFFIC CONTROL PERSONNEL FAILURE TO ADVISE OF OTHER TRAFFIC						
SPECIAL DATA						
SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV.						
CONTROLLING AGENCY - APPROACH CONTROL LANDING			RADAR CTL/SURVEILLANCE - UNDER RADAR CONTACT			
TRAFFIC ADVISORY ISSUED - NONE			CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT			
CONTROL ZONE/AREA - YES			EVASIVE ACTION TAKEN - NO			
ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
FIRE AFTER IMPACT						
REMARKS- CONTROLLER OF FALCON ASSUMED COORDINATION HAD BEEN ACCOMPLISHED BETWEEN LOCAL CONTROLLERS.						

## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3856	9/28/78 TIME - 1645	NR.RICHLAND HILLS,TX	PIPER PA-28 N47979 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 3 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 53, 4002 TOTAL HOURS, 1825 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - MANGHAM DEPARTURE POINT INTENDED DESTINATION RICHLAND HILLS,TX LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING FINAL APPROACH  PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT DUAL STUDENT - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC. FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - CREW COORDINATION-POOR  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- DUAL STUDENT FAILED TO NOTIFY INSTRUCTOR OF OTHER OBSERVED TRAFFIC.						
3-3856	9/28/78 TIME - 1645	NR.RICHLAND HILLS,TX	PIPER PA-28 N1853H DAMAGE-DESTROYED	CR- 1 0 0 PX- 2 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 40, 80 TOTAL HOURS, 5 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MANGHAM DEPARTURE POINT INTENDED DESTINATION GIDDINGS,TX RICHLAND HILLS,TX TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT LANDING FINAL APPROACH  PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC. MISCELLANEOUS ACTS,CONDITIONS - POORLY PLANNED APPROACH FACTOR(S) MISCELLANEOUS ACTS,CONDITIONS - ALTIMETER SETTING-INCORRECT  SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - OPERATING REMARKS- FLEW LOWER THAN NORMAL TRAFFIC PATTERN ALTITUDE.						



## BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3439	10/21/78	NR.EPHRATA,WA TIME - 1530	PIPER PA-32R N8391C DAMAGE-DESTROYED	CR- 1 0 0 PX- 3 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 31, 253 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT MOSES LAKE,WA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT OTHER		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - FAILED TO USE OR INCORRECTLY USED MISC.EQUIPMENT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - YES						
				RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN.		
3-3439	10/21/78	NR.EPHRATA,WA TIME - 1530	ROLLADN SCH LS-1-F N61MP DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 4 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 26, 203 TOTAL HOURS, 72 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT EPHRATA,WA	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT OTHER		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - FAILED TO USE OR INCORRECTLY USED MISC.EQUIPMENT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - YES						
				RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO		
REMARKS- BOTH ACFT RADIO EQUIPPED. NO CONTACTS ATTMPTD.						

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