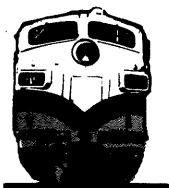


Doc
NTSB
AMM
78
13

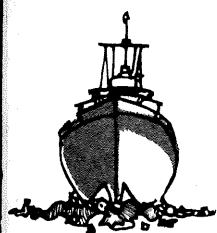


NATIONAL TRANSPORTATION SAFETY BOARD



E-RAU
LIBRARY

WASHINGTON, D.C. 20594



BRIEFS OF ACCIDENTS INVOLVING MIDAIR COLLISIONS

U.S. GENERAL AVIATION
1977

NTSB - AMM 78-13



UNITED STATES GOVERNMENT

C
SB
IM

10-10-10

TECHNICAL REPORT DOCUMENTATION PAGE

1. Report No. NTSB-AMM-78-13	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle Briefs of Accidents Involving Midair Collisions U.S. General Aviation, 1977		5. Report Date December 19, 1978	
		6. Performing Organization Code	
7. Author(s)		8. Performing Organization Report No.	
9. Performing Organization Name and Address Bureau of Technology National Transportation Safety Board Washington, D.C. 20594		10. Work Unit No. 2534	
		11. Contract or Grant No.	
		13. Type of Report and Period Covered Accident Reports in Brief Format - U.S. General Aviation - Midair Collisions 1977	
12. Sponsoring Agency Name and Address NATIONAL TRANSPORTATION SAFETY BOARD Washington, D. C. 20594		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract This publication contains reports of U.S. general aviation accidents involving midair collisions that occurred in 1977. Included are 34 accident files, 17 of which involve fatal accidents. The brief format presents the facts, conditions, circumstances, and probable cause(s) for each accident. Additional statistical information is tabulated by kind of flying, phase of operation, injury index, altitude of occurrence, airport proximity, aircraft damage, pilot certificate, injuries and causal factor(s). This publication will be published annually.			
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	
19. Security Classification (of this report) UNCLASSIFIED	20. Security Classification (of this page) UNCLASSIFIED	21. No. of Pages 61	22. Price

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	38,600,000	4,286	11.10	702	1.82
U.S. General Aviation Accidents Involving Midair Collisions	38,600,000	34	0.088	17	0.044

1/ Source: This figure has historically been provided by the Federal Aviation Administration as compiled from the aircraft owners completion of AC Form 8050-73. In 1977 the FAA instituted a new statistical sampling procedure to gather exposure data. At the time of this publication the exposure data from this new sampling procedure had not yet been released by the FAA. The FAA has, however, provided forecast hours flown for calendar year 1977 which have been used to compute the accident rate information contained in this publication. This rate data may be subject to revision at such time the FAA releases final exposure figures for 1977 general aviation activities.

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.

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

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

Requests for reproduction should be forwarded to the:

NATIONAL TRANSPORTATION SAFETY BOARD
Public Inquiries Section (AD-46)
Washington, D.C. 20594

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.

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.

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.

EXPLANATORY NOTES

KIND OF FLYING

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).

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.

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.

EXPLANATORY NOTES

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

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-INTERNATL
OT-	OTHER AIRCRAFT AND GROUND
PARAJUMP	PARACHUTE JUMP
PRIVATE, FL. INST R.	PRIVATE FLIGHT INSTRUCTOR
PX-	PASSENGERS
RADAR CTL/SURVEILLANCE	RADAR CONTROL/SURVEILLANCE
SCHED CARGO SRV	SCHEDULED CARGO SERVICE
SCHED DOM PASSG SRV	SCHEDULED DOMESTIC CARGO SERVICE
SCHED DOM CARGO 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

MID-AIR COLLISION ACCIDENTS
U.S. CIVIL AVIATION

1957-77

Year	Accidents		Number Fatalities	Number of Accidents by Segments of Aviation Involved				
				<u>Air Carrier</u>	<u>Air Carrier</u>	<u>Air Carrier</u>	<u>Gen. Aviation</u>	<u>Gen. Aviation</u>
	<u>Total</u>	<u>Fatal</u>		<u>Air Carrier</u>	<u>Gen. Aviation</u>	<u>Military</u>	<u>Military</u>	<u>Gen. Aviation</u>
1957	15	6	19 a/	0	0	1	4	10
1958	16	12	86	0	0	2	2	12
1959	13	10	20	0	0	0	3	10
1960	26	10	152 b/	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 c/
1969	28	12	122	0	3	0	2	23 c/
1970	37	21	55	0	0	0	5	32 c/
1971	32	20	96	0	3	1	1	27
1972	25	13	41	0	1	0	0	24 c/
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
TOTAL	528	286	1176	2	17	5	39	455

a/ Includes 3 persons on ground

b/ Includes 6 persons on ground

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

ACCIDENTS, INJURIES
MIDAIR COLLISIONS
U.S. GENERAL AVIATION
1977

	INJURIES					TOTAL
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN	
PILOT	24	6	7	31		68
COPILOT	4					4
DUAL STUDENT	1		2	9		12
CHECK PILOT						
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT						
EXTRA CREW	1					1
PASSENGERS	11		2	11		24
TOTAL	41	6	11	51	ABOARD	109

OTHER AIRCRAFT
OTHER GROUND

GRAND TOTAL	41	6	11	51		109
-------------	----	---	----	----	--	-----

INVOLVES	34	TOTAL ACCIDENTS
INVOLVES	17	FATAL ACCIDENTS

ANALYTIC TABLE

KIND OF FLYING BY PILOT CERTIFICATE

KIND OF FLYING	PILOT CERTIFICATE						RECORDS	ACCIDENTS	PERCENT
	STUDENT	PRIVATE	COMMERCIAL	ATR	COMMERCIAL/ FL INSTR.	ATR/ FL INSTR. OTHER			
<u>INSTRUCTIONAL</u>									
DUAL			1	9			10	8	14.71
SOLO	1	1					2	2	2.94
CHECK									
TRAINING	1			1			2	2	2.94
<u>NONCOMMERCIAL</u>									
PLEASURE	1	22	4	1	2		30	20	44.12
PRACTICE		3	1				4	4	5.88
BUSINESS		4	2				6	6	8.82
CORPORATE/EXECUTIVE					1		1	1	1.47
AERIAL SURVEY									
COMPANY FLIGHT									
OTHER									
<u>COMMERCIAL</u>									
AERIAL APPLICATION			2	2			4	2	5.88
CROP CONTROL RELATED FLIGHT			2				2	1	2.94
FIRE CONTROL									
FIRE CONTROL RELATED FLIGHT									
AERIAL MAPPING/PHOTOGRAPHY									
AERIAL ADVERTISING									
POWER AND PIPELINE PATROL									
FISH SPOTTING									
AIR TAXI-PASSENGER OPERATIONS				1			1	1	1.47
AIR TAXI-CARGO OPERATIONS									
CONSTRUCTION WORK									
SCHEDULED PASSENGER SERVICE									
SCHEDULED CARGO SERVICE									
INTRA-STATE CHARTER PASSENGER									
INTRA-STATE CHARTER CARGO									
MILITARY CONTRACT-PASSENGER									
MILITARY CONTRACT-CARGO									
CHARTER CARGO-DOMESTIC									
CHARTER PASSENGER-DOMESTIC									
CHARTER-CARGO-INTERNATIONAL									
CHARTER-PASSENGER-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	COMMERCIAL/ FL. INSTR.	ATR/ FL. INSTR. OTHER			
MISCELLANEOUS									
EXPERIMENTATION									
TEST									
DEMONSTRATION									
FERRY			2	1	1		4	3	5.88
SEARCH AND RESCUE									
AIR SHOW/AIR RACING			1	1			2	1	2.94
PARACHUTE JUMP									
PARACHUTE JUMP-AIR SHOW									
TOWING GLIDERS									
SEEDING CLOUDS									
HUNTING									
POLICE PATROL									
HIGHWAY TRAFFIC ADVISORY									
ALL OTHER PUBLIC FLYING									
OTHER									
UNKNOWN/NOT REPORTED									
RECORDS	3	30	14	4	16	1	68		
ACCIDENTS	3	21	11	4	12	1		34	
PERCENTS	4.4	44.1	20.6	5.9	23.5	1.5			

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY INJURY INDEX

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
<u>STATIC</u>							
STARTING ENGINE/S							
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS							
PARKED-ENGINES NOT OPERATING							
OTHER							
<u>TAXI</u>							
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							
<u>TAKEOFF</u>							
RUN							
INITIAL CLIMB	1	1	1		3	3	4.41
VERTICAL							
RUNNING (ROTORCRAFT/VTOL-STOL)							
ABORTED (FIXED-WING)							
ABORTED (ROTORCRAFT/VTOL)							
ABORTED (ROTORCRAFT/STOL)							
OTHER							
<u>INFLIGHT</u>							
CLIMB TO CRUISE	2				2	2	2.94
NORMAL CRUISE	12	1	4		17	12	25.00
DESCENDING	1	1	2		4	3	5.88
HOLDING (IFR)							
HOVERING							
POWER-ON DESCENT (ROTORCRAFT)							
AUTOROTATIVE DESCENT							
ACROBATICS	1		2		3	2	4.41
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	2				2	1	2.94
OTHER	5				5	3	7.35
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN	2				2	1	2.94
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND	2				2	1	2.94
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP	2				2	1	2.94
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	4				4	2	5.88
FINAL APPROACH (VFR)	2	6		8	16	8	23.53
INITIAL APPROACH							
FINAL APPROACH (IFR)							
LEVEL OFF/TOUCHDOWN			3	3	6	4	8.82
ROLL (FIXED WING)							
ROLL-ON/RUN-ON (ROTORCRAFT)							
POWER-ON LANDING (ROTORCRAFT)							
POWER-OFF AUTOROTATIVE LOG							
GO-AROUND (VFR)							
MISSED APPROACH (IFR)							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	34	8	6	20	68		
ACCIDENTS	17	4	3	10		34	
PERCENTS	50.0	11.8	8.8	29.4			

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY AIRCRAFT DAMAGE

AIRCRAFT DAMAGEFIRST PHASE OF OPERATION

DESTROYED
SUBSTANTIAL
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

RUN
INITIAL CLIMB
VERTICAL
RUNNING (ROTORCRAFT/VTOL-STOL)
ABORTED (FIXED-WING)
ABORTED (ROTORCRAFT/VTOL)
ABORTED (ROTORCRAFT/STOL)
OTHER

INFLIGHT

CLIMB TO CRUISE	1	1		2	2	2.94
NORMAL CRUISE	8	6	3	17	12	25.00
DESCENDING	1	3		4	3	5.88
HOLDING (IFR)						
HOVERING						
POWER-ON DESCENT (ROTORCRAFT)						
AUTOROTATIVE DESCENT						
ACROBATICS	1	2		3	2	4.41
BUZZING						

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY AIRCRAFT DAMAGE

FIRST PHASE OF OPERATION	AIRCRAFT DAMAGE				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
UNCONTROLLED DESCENT							
EMERGENCY DESCENT							
LOW PASS		2			2	1	2.94
OTHER	4	1			5	3	7.35
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN	2				2	1	2.94
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND	2				2	1	2.94
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP	1	1			2	1	2.94
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	4				4	2	5.88
FINAL APPROACH (VFR)	3	10	1	2	16	8	23.53
INITIAL APPROACH							
FINAL APPROACH (IFR)							
LEVEL OFF/TOUCHDOWN		4	2		6	4	8.82
ROLL (FIXED WING)							
ROLL-ON/RUN-ON (ROTORCRAFT)							
POWER-ON LANDING (ROTORCRAFT)							
POWER-OFF AUTOROTATIVE LG							
GO-AROUND (VFR)							
MISSED APPROACH (IFR)							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	28	32	6	2	68		
ACCIDENTS	18	22	6	2		34	
PERCENTS	41.2	47.1	8.8	2.9			

ANALYTIC TABLE

AIRPORT PROXIMITY BY CONDITION OF LIGHT

<u>AIRPORT PROXIMITY</u>	<u>CONDITION OF LIGHT</u>			<u>RECORDS</u>	<u>ACCIDENTS</u>	<u>PERCENT</u>
	<u>DAYLIGHT</u>	<u>DUSK (TWILIGHT)</u>	<u>NIGHT (DARK)</u>			
ON AIRPORT	20	2		22	11	32.35
ON SEAPLANE BASE						
ON HELIPORT						
ON BARGE/SHIP/PLATFORM						
IN TRAFFIC PATTERN	7			7	4	10.29
WITHIN 1/4 MILE	4			4	2	5.88
WITHIN 1/2 MILE	3			3	2	4.41
WITHIN 3/4 MILE						
WITHIN 1 MILE						
WITHIN 2 MILES						
WITHIN 3 MILES	4			4	2	5.88
WITHIN 4 MILES	2			2	1	2.94
WITHIN 5 MILES	4			4	2	5.88
BEYOND 5 MILES	16	2		18	9	26.47
UNKNOWN/NOT REPORTED	4			4	2	5.88
RECORDS	64	2	2	68		
ACCIDENTS	32	1	1		34	
PERCENTS	94.1	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	18	2	2				22	11	32.35
ON SEAPLANE BASE									
ON HELIPORT									
ON BARGE/SHIP/PLATFORM									
IN TRAFFIC PATTERN	4	1	2				7	4	10.29
WITHIN 1/4 MILE			2		2		4	2	5.88
WITHIN 1/2 MILE		3					3	2	4.41
WITHIN 3/4 MILE									
WITHIN 1 MILE									
WITHIN 2 MILES									
WITHIN 3 MILES	2		2				4	2	5.88
WITHIN 4 MILES	2						2	1	2.94
WITHIN 5 MILES			2		2		4	2	5.88
BEYOND 5 MILES	8	2	2	2	2	2	18	9	26.47
UNKNOWN/NOT REPORTED	2			2			4	2	5.88
RECORDS	16	26	12	4	4	6	68		
ACCIDENTS	8	13	6	2	2	3		34	
PERCENTS	23.5	38.2	17.6	5.9	5.9	8.8			

ANALYTIC TABLE

TYPE OF FLIGHT PLAN BY INJURY INDEX

INJURY INDEX

<u>TYPE OF FLIGHT PLAN</u>	<u>FATAL</u>	<u>SERIOUS</u>	<u>MINOR</u>	<u>NONE</u>	<u>RECORDS</u>	<u>ACCIDENTS</u>	<u>PERCENT</u>
NONE	29	8	6	20	63	33	92.65
VFR	4				4	3	5.88
IFR	1				1	1	1.47
CONTROLLED VFR							
IFR (VFR CONDITIONS ON TOP)							
TOWER EN ROUTE CONTROL SERVICE							
DVFR							
VFR FLIGHT FOLLOWING SERVICE							
SPECIAL VFR							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	34	8	6	20	68		
ACCIDENTS	17	4	3	10		34	
PERCENTS	50.0	11.8	8.8	29.4			

ANALYTIC TABLE

CONTROLLING AGENCY BY CONTROL ZONE/AREA

<u>CONTROLLING AGENCY</u>	<u>CONTROL ZONE/AREA</u>				<u>RECORDS</u>	<u>ACCIDENTS</u>
	<u>UNK/NOT REPORTED</u>					
	<u>YES</u>	<u>NO</u>				
NO CONTROL	11	1	35		47	24
GROUND CONTROL						
LOCAL CONTROL		2			2	1
APPROACH CONTROL-DEPARTURE						
APPROACH CONTROL-LANDING						
APCH CTL-TOWER EN ROUTE CTL		1			1	1
CENTER EN ROUTE						
FLIGHT SERVICE STATION			2		2	1
TOWER	2		1		3	2
UNICOM	2	3	8		13	8
GCA						
UNKNOWN/NOT REPORTED						
OTHER						
RECORDS	15	7	46	2	68	
ACCIDENTS	8	4	23	1		34

CAUSE/FACTOR TABLE

U.S. GENERAL AVIATION ACCIDENTS
INVOLVING MIDAIR COLLISIONS
1977

(EXCLUDES ACCIDENTS WITHOUT CAUSAL ASSIGNMENT)

INVOLVES 34 TOTAL ACCIDENTS

INVOLVES 17 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	17 100.00	3 17.65	17 100.00	17 100.00	4 23.53	17 100.00	34 100.00	7 20.59	34 100.00
PERSONNEL	17 100.00	1 5.88	17 100.00	17 100.00	1 5.88	17 100.00	34 100.00	2 5.88	34 100.00
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	1 5.88	1 5.88	.00	.00	.00	.00	1 2.94	1 2.94
TERRAIN	.00	.00	.00	.00	.00	.00	.00	.00	.00
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
1977
(EXCLUDES ACCIDENTS WITHOUT CAUSAL ASSIGNMENT)

INVOLVES 34 TOTAL ACCIDENTS

INVOLVES 17 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT	1		1				1		1
FAILED TO SEE AND AVOID OTHER AIRCRAFT	28		28	29	1	30	57	1	58
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC		4	4		2	2		6	6
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING					3	3		3	3
LACK OF FAMILIARITY WITH AIRCRAFT					2	2		2	2
EXERCISED POOR JUDGMENT	2		2				2		2
OPERATED CARELESSLY				1		1	1		1
MISJUDGED CLEARANCE	1		1	1		1	2		2
SUBTOTAL	32	4	36	31	8	39	63	12	75
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
INADEQUATE SPACING OF AIRCRAFT					2	2		2	2
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN-PERSONNEL									
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT	29		29	30		30	59		59
OTHER		2	2					2	2
THIRD PILOT									
FLIGHT ENGINEER									
FLIGHT PERSONNEL									
DISPATCHING (AIR CARRIER ONLY)									
SUBTOTAL	29	2	31	30	2	32	59	4	63
** WEATHER **									
OBSTRUCTIONS TO VISION		2	2					2	2
SUBTOTAL		2	2					2	2
GRAND TOTAL	61	8	69	61	10	71	122	18	140
** MISCELLANEOUS ACTS, CONDITIONS **									
DISREGARD OF GOOD OPERATING PRACTICE				1	1	2	1	1	2
POORLY PLANNED APPROACH					1	1		1	1
CONGESTED TRAFFIC-PATTERN		2	2		4	4		6	6
SUNGLARE		2	2		1	1		3	3
AIRCRAFT CAME TO REST IN WATER		1	1					1	1
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
1977
(IN FILE ORDER SEQUENCE)

FILE NUMBER -----	AIRCRAFT REGIST. -----	DATE ----	LOCATION -----	AIRCRAFT MAKE ----	MODEL -----	INJURY INDEX -----
3 0054	N22464	011077	SONORA, TX	CESSNA	150H	SERIOUS
3 0054	N7361S	011077	SONORA, TX	CESSNA	182P	SERIOUS
3 0165	N733KF	012777	LANTANA, FL	CESSNA	172	NONE
3 0165	N8159J	012777	LANTANA, FL	BELL	206A	NONE
3 0181	N2155V	011277	RIVERSIDE, CA	CESSNA	140	FATAL
3 0181	N77359	011277	RIVERSIDE, CA	CESSNA	120	FATAL
3 0583	N7307R	031577	NNEEDLES, CA	BEECH	F-33A	FATAL
3 0583	N9649M	031577	NNEEDLES, CA	MOONEY	M20F	FATAL
3 0888	N50513	040977	BOULDER, CO	CESSNA	150	FATAL
3 0888	N88261	040977	BOULDER, CO	BELLANCA	8KCAB	FATAL
3 0981	N6862K	052677	COLLINS, NY	PIPER	PA-16	FATAL
3 0981	N95916	052677	COLLINS, NY	TAYLORCRAFT	BC12-D	FATAL
3 1105	N4377N	040977	READING, PA	CESSNA	195	FATAL
3 1105	N7886A	040977	READING, PA	NORD	262	FATAL
3 1184	N3229V	052277	VAN NUYS, CA	CESSNA	150M	NONE
3 1184	N63004	052277	VAN NUYS, CA	CESSNA	150M	NONE
3 1279	N471A	041277	BRIDGEPORT, CT	AERO COMDR	500B	NONE
3 1279	N4846J	041277	BRIDGEPORT, CT	PIPER	PA-28R	NONE
3 1295	N38101	061977	WALLER, TX	PIPER	J3C-65	FATAL
3 1295	N9203F	061977	WALLER, TX	HUGHES	369HS	FATAL
3 1388	N3885D	051477	BURNS, OR	CESSNA	182	NONE

LISTING OF ACCIDENTS
INVOLVING MIDAIR COLLISIONS
U.S. GENERAL AVIATION
1977
(IN FILE ORDER SEQUENCE)

FILE NUMBER -----	AIRCRAFT REGIST. -----	DATE -----	LOCATION -----	AIRCRAFT MAKE -----	MODEL -----	INJURY INDEX -----
3 1388	N65127	051477	BURNS, OR	STINSON	108	NONE
3 1449	N57821	042677	PIERRE, SD	PIPER	PA-36	FATAL
3 1449	N57822	042677	PIERRE, SD	PIPER	PA-36	FATAL
3 1498	N1712A	043077	SUFFOLK, VA	PIPER	PA-20	NONE
3 1498	N7103E	043077	SUFFOLK, VA	CESSNA	182	NONE
3 1578	N726D	080577	NFORT WORTH, TX	BEECH	C35	MINOR
3 1578	N7541V	080577	NFORT WORTH, TX	CESSNA	177RG	MINOR
3 1692	N1259W	081577	CORNERSTONE, AR	WEATHERLY	201B	FATAL
3 1692	N1274W	081577	CORNERSTONE, AR	WEATHERLY	201B	FATAL
3 2098	N5456Q	060277	SAN RAMON, CA	CESSNA	150L	FATAL
3 2098	N714PK	060277	SAN RAMON, CA	CESSNA	150M	FATAL
3 2431	N6543	072377	NTUNICA, MS	GRUMMAN	G-164A	FATAL
3 2431	N6632	072377	NTUNICA, MS	GRUMMAN	G-164A	FATAL
3 2592	N33770	050177	AMITYVILLE, NY	PIPER	PA-28	NONE
3 2592	N5535G	050177	AMITYVILLE, NY	CESSNA	150	NONE
3 2742	N52653	091877	TOMBALL, TX	BOEING	A75N1	FATAL
3 2742	N6875F	091877	TOMBALL, TX	CESSNA	150	FATAL
3 2874	N4391Y	090977	CHARLOTTE, TX	PIPER	PA-25	SERIOUS
3 2874	N8835L	090977	CHARLOTTE, TX	PIPER	PA-25	SERIOUS
3 2953	N51874	100277	BEALTON, VA	FAIRCHILD	M62A	NONE
3 2953	N56940	100277	BEALTON, VA	BOEING	A75N1	NONE

LISTING OF ACCIDENTS
INVOLVING MIDAIR COLLISIONS
U.S. GENERAL AVIATION
1977
(IN FILE ORDER SEQUENCE)

FILE NUMBER	AIRCRAFT REGIST.	DATE	LOCATION	AIRCRAFT MAKE	MODEL	INJURY INDEX
-----	-----	----	-----	----	-----	-----
3 2982	N2563Z	090277	NMINTO LAKE,AK	CESSNA	185	FATAL
3 2982	N99798	090277	NMINTO LAKE,AK	HELIO	295	FATAL
3 3519	N2460B	101577	KERRVILLE,TX	GLOBE	GC-1B	NONE
3 3519	N363RG	101577	KERRVILLE,TX	MUSTANG	11	NONE
3 3644	N1276X	101577	CHESAPEAKE,VA	MOONEY	M20E	SERIOUS
3 3644	N9339S	101577	CHESAPEAKE,VA	BEECH	B19	SERIOUS
3 3648	N4AX	111377	MULBERRY,FL	SCHLEICHER	ASW-17	NONE
3 3648	N826	111377	MULBERRY,FL	GLASFLUGEL	201B	NONE
3 3656	N7481S	082677	LITTLE NORWAY,CA	AEROSTAR	601	FATAL
3 3656	N8532T	082677	LITTLE NORWAY,CA	CESSNA	182C	FATAL
3 3766	N41261	120377	BAYTOWN,TX	PIPER	PA-28	SERIOUS
3 3766	N47408	120377	BAYTOWN,TX	PIPER	PA-28	SERIOUS
3 3963	N34100	120377	TUCSON,AZ	CESSNA	177B	FATAL
3 3963	N9564V	120377	TUCSON,AZ	CESSNA	172M	FATAL
3 4004	N1879Z	111177	LINCOLNSHIRE,IL	CESSNA	205	MINOR
3 4004	N6986J	111177	LINCOLNSHIRE,IL	PIPER	PA-28	MINOR
3 4010	N12204	080177	OSHKOSH,WI	BELLANCA	7ACA	FATAL
3 4010	N48342	080177	OSHKOSH,WI	BUSHBEY	MUSTNG	FATAL
3 4107	N1555S	103077	FRANCESVILLE,IN	BEECH	P35	FATAL
3 4107	N8445P	103077	FRANCESVILLE,IN	PIPER	PA-24	FATAL
3 4139	N6431K	122277	ARLINGTON,TN	CESSNA	150	MINOR

LISTING OF ACCIDENTS
INVOLVING MIDAIR COLLISIONS
U.S. GENERAL AVIATION
1977
(IN FILE ORDER SEQUENCE)

FILE NUMBER -----	AIRCRAFT REGIST. -----	DATE -----	LOCATION -----	AIRCRAFT MAKE -----	MODEL -----	INJURY INDEX -----
3 4139	N6570U	122277	ARLINGTON,TN	MOONEY	M20C	MINOR
3 4179	N15904	111577	NNEWPORT BEACH,CA	PIPER	PA-28	FATAL
3 4179	N2739Q	111577	NNEWPORT BEACH,CA	CESSNA	182K	FATAL
3 4224	N4936J	122677	AURORA,OR	PIPER	PA-28R	NONE
3 4224	N58511	122677	AURORA,OR	AMER AVCO	AA-5	NONE

NATIONAL TRANSPORTATION SAFETY BOARD

WASHINGTON, D. C. 20594

BRIEFS OF ACCIDENTS

INVOLVING MIDAIR COLLISIONS

1977

(IN SEQUENCE BY STATE AND DATE)

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2982	9/2/77 TIME - 0910	NR.MINTO LAKE,AK	HELIO 295 N99798 DAMAGE-DESTROYED	CR- 1 0 0 PX- 2 0 0 OT- 0 0 1	COMMERCIAL AIR TAXI-PASSG	COMMERCIAL, FL.INSTR., AGE 28, 3275 TOTAL HOURS, 211 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT MINTO LAKE,AK	INTENDED DESTINATION FAIRBANKS,AK			
		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) MISCELLANEOUS ACTS,CONDITIONS - SUNGLARE						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED ANTI-COLLISION LIGHTS - OPERATING						
REMARKS- FLOAT EQUIPPED						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2982	9/2/77 TIME - 0910	NR.MINTO LAKE,AK	CESSNA 185 N2563Z DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 3 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	AIRLINE TRANSPORT, AGE 33, 5500 TOTAL HOURS, 1500 IN TYPE, INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION LAST ENROUTE STOP FAIRBANKS,AK RETURN MINTO LAKE AREA 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 SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- FLOAT EQUIPPED						
3-3963	12/3/77 TIME - 0806	TUCSON,AZ	CESSNA 172M N9564V DAMAGE-DESTROYED	CR- 2 0 0 PX- 1 0 0 OT- 1 0 0	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 34, 2450 TOTAL HOURS, UNK/NR IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - FREEWAY DEPARTURE POINT INTENDED DESTINATION MESA,AZ TUCSON,AZ 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 RADAR CTL/SURVEILLANCE - UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN FIRE AFTER IMPACT REMARKS- N9564V ON VFR RADAR VECTOR TO TUCSON INTL ARPT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3963	12/3/77 TIME - 0806	TUCSON,AZ	CESSNA 177B N34100 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 3 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 28, 231 TOTAL HOURS, 83 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FREEWAY DEPARTURE POINT TUCSON,AZ INTENDED DESTINATION YUMA,AZ TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT LAST ENROUTE STOP RYAN FLD,TUCSON,AZ 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 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN FIRE AFTER IMPACT						
3-1692	8/15/77 TIME - 1930	CORNERSTONE,AR	WEATHERLY 201B N1259W DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	COMMERCIAL ASSOC CROP CTL ACTIVITY	COMMERCIAL, AGE 38, 9103 TOTAL HOURS, 853 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT CORNERSTONE,AR INTENDED DESTINATION LOCAL TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT PHASE OF OPERATION IN FLIGHT RETURN TO STRIP						
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 CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 180 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1692	8/15/77 TIME - 1930	CORNERSTONE, AR	WEATHERLY 201B N1274W DAMAGE-DESTROYED INTENDED DESTINATION LOCAL	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	COMMERCIAL ASSOC CROP CTL ACTIVITY	COMMERCIAL, AGE 22, 2296 TOTAL HOURS, 396 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT CORNERSTONE, AR						
TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT			PHASE OF OPERATION IN FLIGHT RETURN TO STRIP			
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 - 180 VERTICAL COLLISION ANGLE-DEGREES - 0						
			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO			
3-0181	1/12/77 TIME - 1130	RIVERSIDE, CA	CESSNA 120 N77359 DAMAGE-DESTROYED INTENDED DESTINATION LOCAL	CR- 1 0 0 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 45, 415 TOTAL HOURS, 150 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FLA-BOB						
DEPARTURE POINT RIVERSIDE, CA						
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 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 - 30 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
			RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 100 EVASIVE ACTION TAKEN - NO			

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0181	1/12/77 TIME - 1130	RIVERSIDE,CA	CESSNA 140 N2155V DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 65, 905 TOTAL HOURS, 273 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - FLA-BOB				
		DEPARTURE POINT RIALTO,CA	INTENDED DESTINATION RIVERSIDE,CA			
		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 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 - UNICOM TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 30 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
REMARKS- PILOT FAILED TO FOLLOW FAA RECOMMENDED PROCEDURE FOR TRAFFIC PATTERN ENTRY.						
3-0583	3/15/77 TIME - 0723	NR.NEEDLES,CA	MOONEY M20F N9649M DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 2 0 0	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 47, 3000 TOTAL HOURS, UNK/NR IN TYPE, INSTRUMENT RATED.
		NAME OF AIRPORT - NEEDLES				
		DEPARTURE POINT SAN DIEGO,CA	INTENDED DESTINATION NEEDLES,CA			
		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 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 - FLIGHT SERVICE STATION TRAFFIC ADVISORY ISSUED - OTHER CONTROL ZONE/AREA - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
REMARKS- BOTH ACFT ON SAME FREQ,WERE AWARE OF EACH OTHERS PRESENCE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0583	3/15/77 TIME - 0723	NR.NEEDLES,CA	BEECH F-33A N7307R DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 21, 144 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - NEEDLES DEPARTURE POINT INTENDED DESTINATION LAST ENROUTE STOP GOODYEAR,AZ BLYTHE,CA NEEDLES,CA 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 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 - FLIGHT SERVICE STATION RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - OTHER CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- BEECH HEADING WESTERLY,MOONEY TOWARDS EAST. FSS RECOMMENDED RWY 01.						
3-1184	5/22/77 TIME - 1459	VAN NUYS,CA	CESSNA 150M N63004 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL SOLO	STUDENT, AGE 33, 40 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - VAN NUYS DEPARTURE POINT INTENDED DESTINATION VAN NUYS,CA 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 FACTOR(S) PERSONNEL - TRAFFIC CONTROL PERSONNEL INADEQUATE SPACING OF AIRCRAFT MISCELLANEOUS ACTS,CONDITIONS - CONGESTED TRAFFIC-PATTERN SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - LOCAL CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - BY LOCAL CONTROL CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - OPERATING						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1184	5/22/77 TIME - 1459	VAN NUYS, CA	CESSNA 150M N3229V DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 1	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 33, 3460 TOTAL HOURS, 3400 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - VAN NUYS DEPARTURE POINT INTENDED DESTINATION VAN NUYS, CA 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 FACTOR(S) PERSONNEL - TRAFFIC CONTROL PERSONNEL INADEQUATE SPACING OF AIRCRAFT MISCELLANEOUS ACTS, CONDITIONS - CONGESTED TRAFFIC-PATTERN SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - LOCAL CONTROL RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - BY LOCAL CONTROL CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT CONTROL ZONE/AREA - YES EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - OPERATING REMARKS- TWR CHNGD N3229V FRM RWY 16R TO 16L. BOTH ACFT LND OK.						
3-2098	6/2/77 TIME - 1403	SAN RAMON, CA	CESSNA 150M N714PK DAMAGE-DESTROYED	CR- 2 0 0 PX- 0 0 0 OT- 1 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 28, 502 TOTAL HOURS, 377 IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION OAKLAND, CA 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 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 120 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- BOTH ACFT WERE IN DESIGNATED TRAINING AREA						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2098	6/2/77 TIME - 1403	SAN RAMON,CA	CESSNA 150L N5456Q DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 2 0 0	INSTRUCTIONAL SOLO	PRIVATE, AGE 36, 86 TOTAL HOURS, 63 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT OAKLAND,CA	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 CONVERGENCE ANGLE-DEGREES - 120 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- BOTH ACFT WERE IN DESIGNATED TRAINING AREA						
3-3656	8/26/77 TIME - 1100	LITTLE NORWAY,CA	CESSNA 182C N8532T DAMAGE-DESTROYED	CR- 1 0 0 PX- 3 0 0 OT- 0 0 1	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 57, 5000 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - LAKE TAHOE DEPARTURE POINT SOUTH LAKE TAHOE,CA	INTENDED DESTINATION SAN FRANCISCO,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 - TOWER EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED FIRE AFTER IMPACT REMARKS- ACFT WAS OVERTAKEN AND STRUCK FROM THE REAR BY N7481S.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3656	8/26/77	LITTLE NORWAY, CA	AEROSTAR 601	CR- 0 0 1	NONCOMMERCIAL	PRIVATE, AGE 60, 6444
	TIME - 1100		N7481S	PX- 0 0 0	PLEASURE/PERSONAL TRANSP	TOTAL HOURS, 2500 IN
			DAMAGE-SUBSTANTIAL	OT- 4 0 0		TYPE, INSTRUMENT RATED.
		NAME OF AIRPORT - LAKE TAHOE				
		DEPARTURE POINT	INTENDED DESTINATION			
		SOUTH LAKE TAHOE, CA	OAKLAND, CA			
		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				
		SPECIAL DATA				
		SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.				
		CONTROLLING AGENCY - TOWER			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT	
		CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT			EVASIVE ACTION TAKEN - NO	
		ANTI-COLLISION LIGHTS - OPERATING				
		REMARKS- ACFT OVERTOOK N8532T.				
3-4179	11/15/77	NR. NEWPORT BEACH, CA	CESSNA 182K	CR- 2 0 0	NONCOMMERCIAL	COMMERCIAL, FL. INSTR.,
	TIME - 1204		N27390	PX- 1 0 0	PLEASURE/PERSONAL TRANSP	AGE 39, UNK/NR TOTAL
			DAMAGE-DESTROYED	OT- 0 0 2		HOURS, UNK/NR IN TYPE,
		DEPARTURE POINT	INTENDED DESTINATION			INSTRUMENT RATED.
		SANTA ANA, 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				
		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			RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT	
		TRAFFIC ADVISORY ISSUED - NONE			CONTROLLED/UNCONTROLLED AIRPORT - CONTROLLED AIRPORT	
		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
3-4179	11/15/77 TIME - 1204	NR. NEWPORT BEACH, CA	PIPER PA-28 N15904 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 3 0 0	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 27, 1944 TOTAL HOURS, 150 IN TYPE, INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION SANTA ANA, 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 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 - CONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED ANTI-COLLISION LIGHTS - NOT OPERATING						
3-0888	4/9/77 TIME - 1235	BOULDER, CO	CESSNA 150 N50513 DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 58, 762 TOTAL HOURS, 217 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - BOULDER MUNICIPAL DEPARTURE POINT INTENDED DESTINATION BOULDER, CO LOCAL 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 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						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0888	4/9/77 TIME - 1235	BOULDER, CO	BELLANCA 8KCAB N88261 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 2 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 35, 240 TOTAL HOURS, 20 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - BOULDER MUNICIPAL				
		DEPARTURE POINT BOULDER, CO	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						
3-1279	4/12/77 TIME - 2255	BRIDGEPORT, CT	PIPER PA-28R N4846J DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 2	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 23, 264 TOTAL HOURS, 38 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT OXFORD, CT	INTENDED DESTINATION BRIDGEPORT, CT			
		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 VERTICAL COLLISION ANGLE-DEGREES - 15						
RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO						
3-1279	4/12/77 TIME - 2255	BRIDGEPORT, CT	AERO COMDR 500B N471A DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 2	MISCELLANEOUS FERRY	COMMERCIAL, AGE 34, 1855 TOTAL HOURS, 260 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT OXFORD, CT	INTENDED DESTINATION BRIDGEPORT, CT			
		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 VERTICAL COLLISION ANGLE-DEGREES - 15						
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
3-0165	1/27/77 TIME - 1505	LANTANA, FL	BELL 206A N8159J DAMAGE-NONE	CR- 0 0 2 PX- 0 0 0 OT- 0 0 3	NONCOMMERCIAL PRACTICE	COMMERCIAL, AGE 29, 2086 TOTAL HOURS, 400 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - PALM BEACH DEPARTURE POINT INTENDED DESTINATION WEST PALM BEACH, FL 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 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 - 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						
3-0165	1/27/77 TIME - 1505	LANTANA, FL	CESSNA 172 N733KF DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 1 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 21, 2418 TOTAL HOURS, 164 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - PALM BEACH DEPARTURE POINT INTENDED DESTINATION LANTANA, FL 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF 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 - UNICOM 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 REMARKS- BOTH ACFT LNDD OK.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3648	11/13/77 TIME - 1600	MULBERRY, FL	GLASFLUGEL 201B N826 DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 50, 368 TOTAL HOURS, 58 IN TYPE, NOT INSTRUMENT RATED.
	DEPARTURE POINT MULBERRY, 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					
	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					
3-3648	11/13/77 TIME - 1630	MULBERRY, FL	SCHLEICHER ASW-17 N4AX DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 41, 1298 TOTAL HOURS, 728 IN TYPE, NOT INSTRUMENT RATED.
	DEPARTURE POINT MULBERRY, 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					
	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					

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4004	11/11/77 TIME - 1500	LINCOLNSHIRE,IL	PIPER PA-28 N6986J DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 24, 1770 TOTAL HOURS, 900 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - CHICAGOLAND DEPARTURE POINT INTENDED DESTINATION LINCOLNSHIRE,IL LINCOLNSHIRE,IL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT TAKEOFF INITIAL CLIMB 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 - UNICOM RADAR CTL/SURVEILLANCE - UNKNOWN/NOT REPORTED TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - YES CONVERGENCE ANGLE-DEGREES - 45 HORIZONTAL COLLISION ANGLE-DEGREES - 90 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - OPERATING REMARKS- OTHER AIRCRAFT ON WRONG UNICOM FREQUENCY.						
3-4004	11/11/77 TIME - 1500	LINCOLNSHIRE,IL	CESSNA 205 N1879Z DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 58, 2000 TOTAL HOURS, 35 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - CHICAGOLAND DEPARTURE POINT INTENDED DESTINATION ELKHORN,WI LINCOLNSHIRE,IL 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 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 - UNKNOWN/NOT REPORTED TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - YES CONVERGENCE ANGLE-DEGREES - 45 HORIZONTAL COLLISION ANGLE-DEGREES - 90 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- THIS AIRCRAFT WAS ON THE WRONG UNICOM FREQUENCY.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4107	10/30/77	FRANCESVILLE, IN	PIPER PA-24	CR- 1 0 0	NONCOMMERCIAL	PRIVATE, AGE 29, 220
	TIME - 1332		N8445P	PX- 1 0 0	PLEASURE/PERSONAL TRANSP	TOTAL HOURS, 15 IN TYPE,
			DAMAGE-DESTROYED	OT- 2 0 0		INSTRUMENT RATED.
	DEPARTURE POINT		INTENDED DESTINATION			
	XENIA, OH		JOLIET, IL			
	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)					
	WEATHER - OBSTRUCTIONS TO VISION					
	SKY CONDITION				CEILING AT ACCIDENT SITE	
	CLEAR				UNLIMITED	
	VISIBILITY AT ACCIDENT SITE				PRECIPITATION AT ACCIDENT SITE	
	3 MILES OR LESS				NONE	
	OBSTRUCTIONS TO VISION AT ACCIDENT SITE				TYPE OF WEATHER CONDITIONS	
	HAZE				VFR	
	TYPE OF FLIGHT PLAN					
	NONE					
	SPECIAL DATA					
	SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV.					
	CONTROLLING AGENCY - APR CTL-TOW ENRT CTL SEV				RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE	
	TRAFFIC ADVISORY ISSUED - NONE				CONTROL ZONE/AREA - YES	
	CONVERGENCE ANGLE-DEGREES - 63				HORIZONTAL COLLISION ANGLE-DEGREES - 55	
	EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED				ANTI-COLLISION LIGHTS - INSTALLED. OPERATION UNKNOWN	
	REMARKS- NON-RADAR ENVIRONMENT.					

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4107	10/30/77 TIME - 1332	FRANCESVILLE, IN	BEECH P35 N1555S DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0 OT- 2 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 47, 964 TOTAL HOURS, 212 IN TYPE, INSTRUMENT RATED.
	DEPARTURE POINT SOUTH BEND, IN	INTENDED DESTINATION LAFAYETTE, IN			PHASE OF OPERATION IN FLIGHT NORMAL CRUISE	
	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) WEATHER - OBSTRUCTIONS TO VISION					
	SKY CONDITION CLEAR				CEILING AT ACCIDENT SITE UNLIMITED	
	VISIBILITY AT ACCIDENT SITE 3 MILES OR LESS				PRECIPITATION AT ACCIDENT SITE NONE	
	OBSTRUCTIONS TO VISION AT ACCIDENT SITE HAZE				TYPE OF WEATHER CONDITIONS VFR	
	TYPE OF FLIGHT PLAN IFR					
	SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL HORIZONTAL COLLISION ANGLE-DEGREES - 55 ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN				CONVERGENCE ANGLE-DEGREES - 62 EVASIVE ACTION TAKEN - UNKNOWN/NOT REPORTED	
3-2431	7/23/77 TIME - 0730	NR.TUNICA, MS	GRUMMAN G-164A N6543 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 58, 12000 TOTAL HOURS, 550 IN TYPE, INSTRUMENT RATED.
	DEPARTURE POINT TUNICA, MS	INTENDED DESTINATION LOCAL				
	TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT			PHASE OF OPERATION IN FLIGHT PROCEDURE TURNAROUND	
	PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT					
	SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 7000 KIND OF CROP - COTTON GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - INSTALLED ELEVATION-AREA BEING TREATED- FEET - 150				KIND OF OPERATION - SPRAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT	
	SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE CONTROL ZONE/AREA - UNKNOWN/NOT REPORTED				TRAFFIC ADVISORY ISSUED - NONE	

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2431	7/23/77	NR.TUNICA,MS TIME - 0730	GRUMMAN G-164A N6632 DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 1 0 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, FL.INSTR., AGE 28, 3600 TOTAL HOURS, 425 IN TYPE, INSTRUMENT RATED.
		DEPARTURE POINT TUNICA,MS	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT PROCEDURE TURNAROUND	
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 1500 KIND OF CROP - COTTON GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - INSTALLED ELEVATION-AREA BEING TREATED-FEET - 150						
KIND OF OPERATION - SPRAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-TOXIC GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. RADAR CTL/SURVEILLANCE - RADAR SERVICE NOT AVAILABLE CONTROL ZONE/AREA - UNKNOWN/NOT REPORTED FIRE AFTER IMPACT						
3-2592	5/1/77	AMITYVILLE,NY TIME - 1105	PIPER PA-28 N33770 DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 1	INSTRUCTIONAL TRAINING	COMMERCIAL, FL.INSTR., AGE 39, 1184 TOTAL HOURS, 168 IN TYPE, NOT INSTRU- MENT RATED.
		NAME OF AIRPORT - ZAHNS DEPARTURE POINT AMITYVILLE,NY	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 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 - 0 EVASIVE ACTION TAKEN - NO						
RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 0						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2592	5/1/77 TIME - 1105	AMITYVILLE, NY	CESSNA 150 N5535G DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 54, 114 TOTAL HOURS, 89 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ZAHNS DEPARTURE POINT INTENDED DESTINATION AMITYVILLE, NY LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT TAKEOFF INITIAL CLIMB PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PILOT IN COMMAND - OPERATED CARELESSLY MISCELLANEOUS ACTS, CONDITIONS - DISREGARD OF GOOD OPERATING PRACTICE 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 - 180 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO						
3-0981	5/26/77 TIME - 1300	COLLINS, NY	TAYLORCRAFT BC12-D N95916 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0 OT- 1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 66, 508 TOTAL HOURS, 8 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GOWANDA AIRPARK DEPARTURE POINT INTENDED DESTINATION GOWANDA, NY EDEN, NY 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 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 180 EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - OPERATING REMARKS- PILOT MADE SUCCESSFUL FORCED LANDING IN HAY FIELD.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-0981	5/26/77 TIME - 1300	COLLINS, NY	PIPER PA-16 N6862K DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 0 1 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, FL. INSTR., AGE 30, 1500 TOTAL HOURS, 6 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - GOWANDA AIRPARK DEPARTURE POINT INTENDED DESTINATION GOWANDA NY EDEN, NY TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT ACROBATICS PROBABLE CAUSE(S) PILOT IN COMMAND - EXERCISED POOR JUDGMENT 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 HORIZONTAL COLLISION ANGLE-DEGREES - 180 EVASIVE ACTION TAKEN - YES ANTI-COLLISION LIGHTS - OPERATING REMARKS- VERTICAL AEROBATIC MANEUVER PERFORMED OVER OTHER ACFT IMMEDIATELY PRIOR TO COLLISION.						
3-1388	5/14/77 TIME - 1130	BURNS, OR	STINSON 108 N65127 DAMAGE-NONE	CR- 0 0 2 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 32, 3873 TOTAL HOURS, 3 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - BURNS MUNICIPAL DEPARTURE POINT INTENDED DESTINATION BURNS, OR 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 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 - YES						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1388	5/14/77 TIME - 1130	BURNS,OR	CESSNA 182 N3885D DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 52, 2824 TOTAL HOURS, 605 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - BURNS MUNICIPAL DEPARTURE POINT INTENDED DESTINATION BURNS,OR 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 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- EXTENDED PATTERN, LONG FINAL. PASSING UNDER STINSON WHICH WAS TURNING TO SHORT FINAL.						
3-4224	12/26/77 TIME - 1420	AURORA,OR	AMER AVCO AA-5 N58511 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 52, 730 TOTAL HOURS, 50 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - AURORA STATE DEPARTURE POINT INTENDED DESTINATION LEBANON,OR AURORA,OR 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 CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 5 VERTICAL COLLISION ANGLE-DEGREES - 5 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- RADIO OF N58511 INOPERATIVE.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4224	12/26/77 TIME - 1420	AURORA,OR	PIPER PA-28R N4936J DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 0 0 2	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 55, 1850 TOTAL HOURS, 12 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - AURORA STATE DEPARTURE POINT INTENDED DESTINATION AURORA,OR 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 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 - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 5 VERTICAL COLLISION ANGLE-DEGREES - 5 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-1105	4/9/77 TIME - 1356	READING, PA	CESSNA 195 N4377N DAMAGE-DESTROYED	CR- 1 0 0 PX- 0 0 0 OT- 3 0 0	NONCOMMERCIAL BUSINESS	COMMERCIAL, AGE 53, UNK/NR TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION LINCOLN PARK,NJ YORK,PA 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 SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-LARGE 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 FIRE AFTER IMPACT REMARKS- CESSNA UPPER R WING TIP STRUCK BY NORD PROPELLER.NORD ACFT MAKING VFR APCH TO RDG ARPT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1105	4/9/77 TIME - 1356	READING, PA	NORD 262 N7886A DAMAGE-DESTROYED	CR- 3 0 0 PX- 0 0 0 OT- 1 0 0	MISCELLANEOUS FERRY	AIRLINE TRANSPORT, AGE 54, 8680 TOTAL HOURS, 1380 IN TYPE, NOT INSTRU- MENT RATED.
		DEPARTURE POINT PHILADELPHIA, PA	INTENDED DESTINATION READING, PA	LAST ENROUTE STOP WILMINGTON, DE		
		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.-LARGE US GEN.AV. CONTROLLING AGENCY - TOWER TRAFFIC ADVISORY ISSUED - NONE EVASIVE ACTION TAKEN - NO FIRE AFTER IMPACT REMARKS- NORD ACFT DSCNDS FOR LNDG AT RDG ARPT.CESSNA ACFT ENROUTE FRM LINCOLN PK,NJ TO YORK,PA.						
3-1449	4/26/77 TIME - 1805	PIERRE, SD	PIPER PA-36 N57822 DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0 OT- 1 0 0	MISCELLANEOUS FERRY	COMMERCIAL, AGE 45, 24391 TOTAL HOURS, 700 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT FAIRMONT, MN	INTENDED DESTINATION PIERRE, SD	LAST ENROUTE STOP WATERTOWN, SD		
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT LOW PASS		
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						
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 - 0 EVASIVE ACTION TAKEN - NO REMARKS- PILOT DIPPED WING TO FISHERMEN ALONG SHORELINE WHILE FLYING IN LOOSE FORMATION						
				RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 5 ANTI-COLLISION LIGHTS - NOT INSTALLED		

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1449	4/26/77 TIME - 1805	PIERRE,SD	PIPER PA-36 N57821 DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 0 0 0 OT- 0 1 0	MISCELLANEOUS FERRY	COMMERCIAL, FL.INSTR., AGE 29, 5600 TOTAL HOURS, UNK/NR IN TYPE, INSTRU- MENT RATED.
		DEPARTURE POINT FAIRMONT,MN	INTENDED DESTINATION PIERRE,SD	LAST ENROUTE STOP WATERTOWN,SD		
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION IN FLIGHT LOW PASS		
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 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO						
				RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 5 ANTI-COLLISION LIGHTS - NOT INSTALLED		
3-4139	12/22/77 TIME - 1200	ARLINGTON,TN	MOONEY M20C N6570U DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 57, 2500 TOTAL HOURS, 1328 IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - ARLINGTON MUNI				
		DEPARTURE POINT ARLINGTON,TN	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT BOTH IN FLIGHT		PHASE OF OPERATION LANDING LEVEL OFF/TOUCHDOWN		
PROBABLE CAUSE(S) PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES,DIRECTIVES,ETC. 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 CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO						
				TRAFFIC ADVISORY ISSUED - BY UNICOM CONVERGENCE ANGLE-DEGREES - 180 VERTICAL COLLISION ANGLE-DEGREES - 10 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN		
REMARKS- PLT ENTERED INTO TRAFFIC PATTERN ON BASE LEG.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-4139	12/22/77 TIME - 1200	ARLINGTON, TN	CESSNA 150 N6431K DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 28, 299 TOTAL HOURS, 26 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - ARLINGTON MUNI DEPARTURE POINT INTENDED DESTINATION OLIVE BRANCH, MI ARLINGTON, TN 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 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 - UNICOM TRAFFIC ADVISORY ISSUED - BY UNICOM CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 10 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN REMARKS- PLT ENTERED LEFT DOWNWIND FOR RWY 15, PUBLISHED TRAFFIC PATTERN IS RIGHT TURNS.						
3-0054	1/10/77 TIME - 1715	SONORA, TX	CESSNA 182P N7361S DAMAGE-SUBSTANTIAL	CR- 0 1 0 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL BUSINESS	PRIVATE, AGE 41, 60 TOTAL HOURS, 5 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SONORA MUNICIPAL DEPARTURE POINT INTENDED DESTINATION SAN SABA, TX SONORA, TX 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - LACK OF FAMILIARITY WITH 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 - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - YES CONVERGENCE 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
3-0054	1/10/77 TIME - 1715	SONORA, TX	CESSNA 150H N22464 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 1 0	INSTRUCTIONAL TRAINING	STUDENT, AGE 16, 14 TOTAL HOURS, 13 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SONORA MUNICIPAL DEPARTURE POINT INTENDED DESTINATION SONORA, 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) PILOT IN COMMAND - LACK OF FAMILIARITY WITH AIRCRAFT MISCELLANEOUS ACTS, CONDITIONS - POORLY PLANNED APPROACH						
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 - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - YES CONVERGENCE ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED, OPERATION UNKNOWN						
3-1295	6/19/77 TIME - 1625	WALLER, TX	PIPER J3C-65 N38101 DAMAGE-DESTROYED	CR- 1 0 0 PX- 1 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 47, 141 TOTAL HOURS, 21 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - SKY LAKES DEPARTURE POINT INTENDED DESTINATION WALLER, TX 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						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-1295	6/19/77 TIME - 1625	WALLER, TX	HUGHES 369HS N9203F DAMAGE-MINOR	CR- 0 0 1 PX- 0 0 1 OT- 2 0 0	NONCOMMERCIAL CORP/EXEC	ATP, FLIGHT INSTR., AGE 30, 2232 TOTAL HOURS, 92 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - SKY LAKES DEPARTURE POINT INTENDED DESTINATION HOUSTON, TX TEMPLE, TX TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT NORMAL CRUISE PROBABLE CAUSE(S) PILOT IN COMMAND - EXERCISED POOR JUDGMENT PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV. - SMALL US GEN. AV. REMARKS- CROSSED ARPT ABT 200FT OVR RWY.						
3-1578	8/5/77 TIME - 1856	NR. FORT WORTH, TX	CESSNA 177RG N7541V DAMAGE-SUBSTANTIAL	CR- 0 0 2 PX- 0 0 0 OT- 0 0 3	INSTRUCTIONAL DUAL	AIRLINE TRANSPORT, AGE 29, 2021 TOTAL HOURS, 214 IN TYPE, INSTRUMENT RATED.
DEPARTURE POINT INTENDED DESTINATION FORT WORTH, TX 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 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 CONVERGENCE ANGLE-DEGREES - 60 HORIZONTAL COLLISION ANGLE-DEGREES - 60 VERTICAL COLLISION ANGLE-DEGREES - 5 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
3-1578	8/5/77 TIME - 1856	NR.FORT WORTH,TX	BEECH C35 N726D DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 2 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 53, 258 TOTAL HOURS, 27 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT CAMERON,MO	INTENDED DESTINATION FORT WORTH,TX	LAST ENROUTE STOP OKMULGEE,OK		
		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						
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 - 60 VERTICAL COLLISION ANGLE-DEGREES - 5 ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN						
3-2874	9/9/77 TIME - 1030	CHARLOTTE,TX	PIPER PA-25 N8835L DAMAGE-DESTROYED	CR- 0 0 1 PX- 0 0 0 OT- 0 1 0	COMMERCIAL AERIAL APPLICATION	COMMERCIAL; AGE 48, 15500 TOTAL HOURS, 7500 IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT CHARLOTTE,TX	INTENDED DESTINATION LOCAL	PHASE OF OPERATION IN FLIGHT STARTING SWATH RUN		
		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 TOTAL HOURS IN CROP CONTROL - 9999 KIND OF CROP - OTHER PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT ELEVATION-AREA BEING TREATED-FEET - 600						
		KIND OF OPERATION - SPRAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOTOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL,FLAT				
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.--SMALL US GEN.AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO FIRE AFTER IMPACT						
		RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONVERGENCE ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 5				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2874	9/9/77 TIME - 1030	CHARLOTTE, TX	PIPER PA-25 N4391Y DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0 OT- 0 0 1	COMMERCIAL AERIAL APPLICATION	COMMERCIAL, AGE 28, 4000 TOTAL HOURS, UNK/NR IN TYPE, NOT INSTRUMENT RATED.
		DEPARTURE POINT CHARLOTTE, TX	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION IN FLIGHT STARTING SWATH RUN		
PROBABLE CAUSE(S) PILOT IN COMMAND - FAILED TO SEE AND AVOID OTHER AIRCRAFT PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
SPECIAL DATA TOTAL HOURS IN CROP CONTROL - 4000 KIND OF CROP - OTHER PILOT'S SEAT BELT - UNKNOWN/NOT REPORTED GOGGLES - NOT USED COCKPIT CRASHPAD - INSTALLED TANK/HOPPER-LOCATION - FORWARD OF PILOT ELEVATION-AREA BEING TREATED- FEET - 600 KIND OF OPERATION - SPRAYING CROPS TYPE OF CHEMICAL USED - LIQUID CHEMICAL-NONTOXIC GLOVES - NOT USED CRASH HELMET - AVAILABLE USED CRASH BAR - NOT INSTALLED TERRAIN-TYPE - LEVEL, FLAT SWATH RUN-HOW FLOWN - CROSSWIND						
SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN. AV.-SMALL US GEN. AV. CONTROLLING AGENCY - NO CONTROL TRAFFIC ADVISORY ISSUED - NONE HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO FIRE AFTER IMPACT REMARKS- 3 ACFT ON SAME JOB.						
3-2742	9/18/77 TIME - 1735	TOMBALL, TX	CESSNA 150 N6875F DAMAGE-SUBSTANTIAL	CR- 1 0 0 PX- 0 0 0 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	STUDENT, AGE 49, 19 TOTAL HOURS, ALL IN TYPE, NOT INSTRUMENT RATED.
		NAME OF AIRPORT - HOOKS MEMORIAL				
		DEPARTURE POINT TOMBALL, TX	INTENDED DESTINATION LOCAL			
		TYPE OF ACCIDENT COLLISION WITH AIRCRAFT	BOTH IN FLIGHT	PHASE OF OPERATION LANDING FINAL APPROACH		
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. MISCELLANEOUS ACTS, CONDITIONS - CONGESTED TRAFFIC-PATTERN						
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 - 0 EVASIVE ACTION TAKEN - NO RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 5						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2742	9/18/77	TOMBALL, TX	BOEING A75N1	CR- 0 0 1	NONCOMMERCIAL	PRIVATE, AGE 17, 90 TOTAL
	TIME - 1735		N52653	PX- 0 0 1	PLEASURE/PERSONAL TRANSP	HOURS, 3 IN TYPE, NOT
			DAMAGE-SUBSTANTIAL	OT- 1 0 0		INSTRUMENT RATED.
		NAME OF AIRPORT - HOOKS MEMORIAL				
		DEPARTURE POINT	INTENDED DESTINATION			
		TOMBALL, 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				
		PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT				
		FACTOR(S)				
		PILOT IN COMMAND - FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES, ETC.				
		MISCELLANEOUS ACTS, CONDITIONS - CONGESTED TRAFFIC-PATTERN				
		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			VERTICAL COLLISION ANGLE-DEGREES - 5	
		EVASIVE ACTION TAKEN - NO				
		REMARKS- NEITHER ACFT REPORTED POSITIONS ON UNICOM.				
3-3519	10/15/77	KERRVILLE, TX	MUSTANG 11	CR- 0 0 1	NONCOMMERCIAL	PRIVATE, AGE 34, 410
	TIME - 1305		N363RG	PX- 0 0 1	PLEASURE/PERSONAL TRANSP	TOTAL HOURS, 79 IN TYPE,
			DAMAGE-MINOR	OT- 0 0 2		NOT INSTRUMENT RATED.
		NAME OF AIRPORT - KERRVILLE MUNI				
		DEPARTURE POINT	INTENDED DESTINATION			
		KERRVILLE, 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				
		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			CONVERGENCE ANGLE-DEGREES - 0	
		HORIZONTAL COLLISION ANGLE-DEGREES - 0			VERTICAL COLLISION ANGLE-DEGREES - 3	
		EVASIVE ACTION TAKEN - NO				
		REMARKS- NOT RADIO-EQUIPPED.				

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3519	10/15/77 TIME - 1305	KERRVILLE, TX	GLOBE GC-1B N2460B DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 2	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 59, 2000 TOTAL HOURS, 300 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - KERRVILLE MUNI DEPARTURE POINT INTENDED DESTINATION MAYFIELD RANCH, TX KERRVILLE, TX 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 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 - RADAR SERVICE NOT AVAILABLE TRAFFIC ADVISORY ISSUED - BY UNICOM CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 3 EVASIVE ACTION TAKEN - NO						
3-3766	12/3/77 TIME - 1130	BAYTOWN, TX	PIPER PA-28 N4740B DAMAGE-DESTROYED	CR- 0 1 1 PX- 0 0 0 OT- 0 0 2	INSTRUCTIONAL DUAL	COMMERCIAL, FL.INSTR., AGE 41, 6649 TOTAL HOURS, 5 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - HUMPHREY DEPARTURE POINT INTENDED DESTINATION BAYTOWN, 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT						
FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - CONGESTED TRAFFIC-PATTERN						
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 - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 20 EVASIVE ACTION TAKEN - NO REMARKS- WRONG UNICOM FREQUENCY						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-3766	12/3/77 TIME - 1130	BAYTOWN, TX	PIPER PA-28 N41261 DAMAGE-DESTROYED	CR- 0 0 2 PX- 0 0 0 OT- 0 1 1	INSTRUCTIONAL DUAL	COMMERCIAL, FL. INSTR., AGE 38, 3707 TOTAL HOURS, 630 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - HUMPHREY DEPARTURE POINT INTENDED DESTINATION BAYTOWN, 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT FACTOR(S) MISCELLANEOUS ACTS, CONDITIONS - CONGESTED TRAFFIC-PATTERN 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 - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 VERTICAL COLLISION ANGLE-DEGREES - 20 EVASIVE ACTION TAKEN - NO						
3-1498	4/30/77 TIME - 1130	SUFFOLK, VA	CESSNA 182 N7103E DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE UNK/NR, 1500 TOTAL HOURS, 13 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MACKEY DEPARTURE POINT INTENDED DESTINATION SUFFOLK, VA ISLE OF WRIGHT, VA 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 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT 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
3-1498	4/30/77 TIME - 1130	SUFFOLK,VA	PIPER PA-20 N1712A DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 0 OT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 59, 9700 TOTAL HOURS, 2000 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - MACKEY DEPARTURE POINT INTENDED DESTINATION SUFFOLK,VA ISLE OF WRIGHT,VA 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 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - NONE CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO EVASIVE ACTION TAKEN - NO ANTI-COLLISION LIGHTS - INSTALLED,OPERATION UNKNOWN REMARKS- AIRCRAFT OVERRAN OTHER AIRCRAFT						
3-2953	10/2/77 TIME - 1610	BEALTON,VA	BOEING A75N1 N56940 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 OT- 0 0 2	MISCELLANEOUS AIR SHOW/RACING	COMMERCIAL, AGE 34, 2213 TOTAL HOURS, 120 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - FLYING CIRCUS DEPARTURE POINT INTENDED DESTINATION BEALTON,VA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT ACROBATICS PROBABLE CAUSE(S) PILOT IN COMMAND - MISJUDGED CLEARANCE 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. REMARKS- JOINING FLT AS SLOT ACFT FOR DIAMOND FORMATION INTO A MODIFIED FLEUR-DE-LIS.UNDERRAN LEAD ACFT.						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N	FLIGHT PURPOSE	PILOT DATA
3-2953	10/2/77 TIME - 1610	BEALTON,VA	FAIRCHILD M62A N51874 DAMAGE-SUBSTANTIAL	CR- 0 0 1 PX- 0 0 1 QT- 0 0 2	MISCELLANEOUS AIR SHOW/RACING	AIRLINE TRANSPORT, AGE 41, 10600 TOTAL HOURS, 75 IN TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - FLYING CIRCUS DEPARTURE POINT INTENDED DESTINATION BEALTON,VA LOCAL TYPE OF ACCIDENT PHASE OF OPERATION COLLISION WITH AIRCRAFT BOTH IN FLIGHT IN FLIGHT ACROBATICS PROBABLE CAUSE(S) 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. REMARKS- LEAD AIRCRAFT IN A DIAMOND FORMATION.						
3-3644	10/15/77 TIME - 1515	CHESAPEAKE,VA	BEECH B19 N9339S DAMAGE-DESTROYED	CR- 0 1 0 PX- 0 0 0 QT- 0 0 1	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	PRIVATE, AGE 49, 146 TOTAL HOURS, 82 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - CHSPKE-PORTSMOUTH DEPARTURE POINT INTENDED DESTINATION NORFOLK,VA 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 PERSONNEL - MISCELLANEOUS-PERSONNEL PILOT OF OTHER AIRCRAFT SPECIAL DATA SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV. CONTROLLING AGENCY - UNICOM TRAFFIC ADVISORY ISSUED - UNKNOWN/NOT REPORTED CONTROL ZONE/AREA - NO HORIZONTAL COLLISION ANGLE-DEGREES - 180 RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONVERGENCE ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO						

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES F S M/N			FLIGHT PURPOSE	PILOT DATA
3-3644	10/15/77 TIME - 1515	CHESAPEAKE,VA	MOONEY M20E N1276X DAMAGE-SUBSTANTIAL	CR- PX- OT-	0 0 0	1 0 1	NONCOMMERCIAL PRACTICE	PRIVATE, AGE 25, 241 TOTAL HOURS, 20 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - CHSPKE-PORTSMOUTH DEPARTURE POINT INTENDED DESTINATION NORFOLK,VA 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 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 - UNICOM RADAR CTL/SURVEILLANCE - NOT UNDER RADAR CONTACT TRAFFIC ADVISORY ISSUED - UNKNOWN/NOT REPORTED CONTROLLED/UNCONTROLLED AIRPORT - UNCONTROLLED AIRPORT CONTROL ZONE/AREA - NO CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO								
3-4010	8/1/77 TIME - 1523	OSHKOSH,WI	BUSHBEY MUSTNG N48342 DAMAGE-SUBSTANTIAL	CR- PX- OT-	0 0 1	1 0 0	NONCOMMERCIAL PLEASURE/PERSONAL TRANSP	COMMERCIAL, AGE 51, 744 TOTAL HOURS, 72 IN TYPE, NOT INSTRUMENT RATED.
NAME OF AIRPORT - WITTMAN FIELD DEPARTURE POINT INTENDED DESTINATION OSHKOSH,WI 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 FACTOR(S) PERSONNEL - MISCELLANEOUS-PERSONNEL OTHER 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 CONVERGENCE ANGLE-DEGREES - 0 HORIZONTAL COLLISION ANGLE-DEGREES - 0 EVASIVE ACTION TAKEN - NO REMARKS- FLY-BY PATTERN.DPTR RTE SAME AS FLY-BY PATTERN. N48342 WAS A LOW WING AIRCRAFT.								

BRIEFS OF ACCIDENTS

FILE	DATE	LOCATION	AIRCRAFT DATA	INJURIES			FLIGHT PURPOSE	PILOT DATA	
				F	S	M/N			
3-4010	8/1/77	OSHKOSH,WI	BELLANCA 7ACA	CR-	1	0	0	NONCOMMERCIAL	COMMERCIAL, AGE 33, 305
	TIME - 1523		N12204	PX-	0	0	0	PLEASURE/PERSONAL TRANSP	TOTAL HOURS, 61 IN TYPE,
			DAMAGE-DESTROYED	DT-	0	0	1		NOT INSTRUMENT RATED.
	NAME OF AIRPORT - WITTMAN FIELD								
	DEPARTURE POINT		INTENDED DESTINATION						
	OSHKOSH,WI		FRANKSVILLE,WI						
	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								
	FACTOR(S)								
	PERSONNEL - MISCELLANEOUS-PERSONNEL OTHER								
	SPECIAL DATA								
	SEGMENTS OF AVIATION INVOLVED - SMALL US GEN.AV.-SMALL US GEN.AV.								
	CONTROLLING AGENCY - NO CONTROL								
	CONVERGENCE ANGLE-DEGREES - 180								
	EVASIVE ACTION TAKEN - NO								
	REMARKS- EAA ESTABLISHED DEPART RTE SAME AS FLY-BY PATRN.N12204 WAS A HIGH WING AIRCRAFT.								

NTSB

AMM Midair Collisions

78-13

1977

EMBRY-RIDDLE AERO U. DAYTONA BEACH



3 1745 00070 8266

NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C. 20594

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
NATIONAL TRANSPORTATION
SAFETY BOARD



NOV 18 1979

APR 17 1981