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PB190408



REVIEW OF CORPORATE / EXECUTIVE AIRCRAFT ACCIDENTS

A STATISTICAL SUMMARY OF A SPECIAL/SEGMENT
OF U.S. GENERAL AVIATION

1964 - 1968

NATIONAL TRANSPORTATION SAFETY BOARD
Bureau of Aviation Safety
Washington, D. C. 20591

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FOREWORD

This publication has been prepared for the purpose of being made available to the participants in the First Annual Tennessee Mid-South Executive Pilot Seminar to be conducted at Nashville, Tennessee, on April 7, 8, and 9, 1970.

Information in this review was developed from a special file of 439 Corporate/Executive aircraft accidents that occurred during the period 1964-1968. Criteria used in the selection of these accidents were:

1. Each aircraft was Corporate owned or operated; ~~and~~
2. Each accident involved a Corporate/Executive operation; i.e., flown in a corporate operation by a professional pilot; ~~and~~
3. The pilot-in-command was a holder of a Commercial or Airline Transport Pilot Certificate, and
4. The aircraft was of U. S. Registry.

The review contains analytic tables in matrix form comparing selected accident information, and Cause/Related Factor tables and injury tables covering various segments of the entire file. ()

Although the publication contains information developed only from Corporate/Executive aircraft accidents, it has fallout benefits to other segments of General Aviation involved in the operation of the same aircraft makes and models, fixed-wing and rotorcraft. For this reason, the Safety Board has provided a limited reserve supply to fill additional requests. Such requests should be sent to the National Transportation Safety Board, Office of the Executive Director, Publications Section, Washington, D. C. 20591.

March 12, 1970

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EXPLANATORY NOTES

GENERAL AVIATION

General Aviation refers to the operation of U. S. Civil Aircraft owned and operated by persons, corporations, etc., other than those engaged in air carrier operations authorized by a certificate of public convenience and necessity, issued by the Civil Aeronautics Board.

AIRCRAFT ACCIDENT

The accidents included herein are the occurrences incident to flight in which, "as a result of the operation of an aircraft, any person (occupant or nonoccupant) receives fatal or serious injury or any aircraft receives substantial damage." Part 430 of the National Transportation Safety Board Regulations contains definitions of fatal and serious injury, and substantial aircraft damage.

Prior to January 1, 1968, the definition of substantial damage was:

- (1) Except as provided in subparagraph (2) of this paragraph:
 - (i) Substantial damage in aircraft of 12,500 pounds maximum certificated takeoff weight or less means damage or structural failure reasonably estimated to cost \$300 or more to repair.
 - (ii) Substantial damage in aircraft of more than 12,500 pounds maximum certificated takeoff weight means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repairs or replacement of the affected component.
- (2) Engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small punctured holes in the skin or fabric, taxiing damage to propeller blades, damage to tires, engine accessories, brakes or wingtips are not considered "substantial damage" for the purpose of this part.

Effective January 1, 1968, the definition of substantial damage was changed to read:

- (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.

EXPLANATORY NOTES

AIRCRAFT ACCIDENT (Con't)

(2) Engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small punctured holes in the skin or fabric, ground damage to rotor or propeller blades, damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wingtips are not considered "substantial damage" for this part.

INJURY INDEX

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

TYPE OF ACCIDENT

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

Gear Collapsed

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

Gear Retracted

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

Airframe Failure

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

Engine Failure/Malfunction

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

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.

EXPLANATORY NOTES

KIND OF FLYING

Refers to the purpose for which the aircraft is being operated at the time of the accident.

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.

COLLISIONS 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).

CAUSE AND RELATED FACTORS

In determining the probable cause of an accident, all facts, conditions and circumstances are considered. For statistical purposes, where two or more causes exist in an accident, each is recorded and no attempt is made to establish a primary cause. Therefore, in the Cause and Related Factor Table, the figures shown in the columns dealing with Cause will exceed the total number of accidents. The term Factor is used, in general, to reflect those elements of an accident which further explain or supplement the probable cause (s). This provision was incorporated in the coding system to increase its flexibility and to provide a means for collecting essential items of information which could not be readily categorized elsewhere in the system.

SMALL FIXED-WING AIRCRAFT

Aircraft which have a certificated maximum gross takeoff weight of 12,5000 pounds, or less.

LARGE FIXED-WING AIRCRAFT

Aircraft which have a certificated maximum gross takeoff weight in excess of 12, 500 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

FORMAT FOR ACCIDENT LISTINGS

The code key below applies to all aircraft accident listings in this publication.

CODE KEY

FILE NUMBER	REGISTRATION NUMBER	DATE OF ACCIDENT MON. - DAY - YR.	LOCATION CITY STATE	AIRCRAFT MANUFACTURER	AIRCRAFT MODEL	INJURY ^{1/} INDEX
2 0003	N5114	01 02 64	ANDERSON, IND.	LOCKHEED	18	N

1/ Injury Index - Highest Degree of Personal Injury

- F - Fatal
- C - Serious
- M - Minor
- N - None

on.

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INDEX
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SECTION I

ALL
ACCIDENTS

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING - CORPORATE/EXECUTIVE
 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
 COMMERCIAL OR ATR PILOT CERTIFICATE
 U. S. GENERAL AVIATION
 1964-1968

2 0003N5114	010264 ANDERSON IND	LOCKHEED	18	N
2 0045N2947	022664 FRANKFORT IND	GRUMMAN	G73	N
2 0051N1128Q	030364N LAKE JACKSON TEXCESSNA		310H	F
2 0058N344S	061964NSOUTHHAMPTON MASSAERO CMDR		680	F
2 0062N100V	031564 BURLINGTON VT	LOCKHEED	18	N
2 0122N9979R	042264 COLBY KAN	BEECHCRAFT	B95	F
2 0157N5645D	030564 DELTA UTAH	BEECHCRAFT	E18S	F
2 0168N2954	032064 WEST PALM BC FLA	GRUMMAN	G73	N
2 0229N6747D	032764 LEEVILLE LA	BELL	47G2A	C
2 0245N3625U	040364 YOSEMITE N PA CALCESSNA		182F	C
2 0376N110WB	032164NKNOXVILLE TENN	BEECHCRAFT	E18S	F
2 0378N451HC	042764 BILLINGS MONT	BEECHCRAFT	65	F
2 0457N9355X	070964 ROSCOE MONTANA	CESSNA	182	C
2 0475N505C	061664 CHARLOTTE NC	LOCKHEED-GA1329		N
2 0555N6759T	091464 FARMINGTON NM	CESSNA	310D	C
2 0589N4829V	080364 GRANITE MT ALAS	FAIRCHILD	C82	N
2 0696N84H	112464 VANDALIA OHIO	DOUGLAS	DC-3	N
2 0718N4726V	032864 NORTH PACIFIC OCND	DOUGLAS	DC-4	F
2 0805N505W	121564 FRANKLIN PA	VICKERS	VI745D	N
2 0912N9423Y	071664NTOADLENA N MEX	BEECHCRAFT	G18S	F
2 0918N7057Y	120164 CHICAGO ILL	PIPER	PA-30	F
2 0954N3799B	102964 SHELBYVILLE TENN	BEECHCRAFT	C-50	F
2 0989N73909	020564NLITTLE NWAY CALIF	BELL	47G381	F
2 0990N73229	120764NVENICE LA	BELL	47J2	F
2 1029N159GK	080164NMANHATN BEACH CALCESSNA		310H	F
2 1030N34C	022764 TALLAHASSEE FLA	GRUMMAN	G-159	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING - CORPORATE/EXECUTIVE
 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
 COMMERCIAL OR ATR PILOT CERTIFICATE
 U. S. GENERAL AVIATION
 1964 -1968

3 0124N4966B	011564 MOAB UT	BEECHCRAFT E18S	N
3 0194N7475E	020164 BOLIVAR MO	CESSNA 210	N
3 0382N24G	021764 PHOENIX ARIZ	BEECHCRAFT D18S	N
3 0385N513T	021764 VILLE PLATTE LA	CESSNA 180	N
3 0387N3830C	012864 NASHVILLE TENN	AERO COMM 500	M
3 0395N1420G	013064 KANSAS CITY MO	BEECHCRAFT A55	N
3 0399N5121Y	021864 READING PA	PIPER PA23	M
3 0422N8985T	022164 GRIFFITH IND	CESSNA 182	N
3 0466N3015R	022664 LINCOLN STN N MEX	CESSNA 320A	N
3 0479N665T	022764 SHREVEPORT LA	BEECHCRAFT 95	N
3 0481N4784P	022764 ELGIN ILL	PIPER PA23	N
3 0488N1133C	022864 NASHVILLE TENN	AERO COMM 560E	N
3 0584N7161P	030964 CLEARWATER KANS	PIPER PA24	M
3 0656N3758S	031664 LOS ANGELES CALIF	CESSNA 172S	N
3 0683N2990Y	032164 CONNER MONT	CESSNA 182E	N
3 0701N49M	032564 LAKE ERIE OHIO	BEECHCRAFT E18S	N
3 0775N8047M	031964 SAN ANTONIO TEX	CESSNA 310I	N
3 0783N5305Y	040164 AMARILLO TEX	PIPER PA23	N
3 0817N2954	032064 W PALM BEACH FLA	GRUMMAN G73	N
3 0852N60X	040864 LAFAYETTE LA	GRUMMAN G21A	N
3 0855N153J	040864 COLUMBIA MISS	BEECHCRAFT E18S	N
3 1005N41441	042264 NEWARK NJ	AERO COMM 680	N
3 1167N1757H	050464 JACKSONVILLE ILL	CESSNA 310C	N
3 1170N6807D	050564 LAMAR COLO	CESSNA 210	N
3 1171N4367P	050564 ABILENE TEX	PIPER PA23	N
3 1269N1555V	051364 MINNEAPOLIS MINN	BEECHCRAFT D18S	N

AIRCRAFT ACCIDENT LISTING
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3 1280N24S	051464 CONCORD NH	BEEHCRAFT C50	N
3 1283N6743T	051564 TAYLORVILLE ILL	CESSNA 310D	N
3 1435N3714Y	030564 DENVER COL	CESSNA 210	N
3 1486N5141Y	053064 CLEVELAND OHIO	PIPER PA23	N
3 1498N80492	053164 MEMPHIS TENN	BEEHCRAFT D-18S	N
3 1517N1797H	060264 LEXINGTON TENN	CESSNA 310C	N
3 1785N350RX	062364 BLUE ASH OHIO	CESSNA 310H	N
3 1900N3144C	070164 HAMET ID	CESSNA 180	N
3 2052N1812D	071364 BALTIMORE MD	BEEHCRAFT D18S	N
3 2126N4951A	071864 CHOTEAU MONT	CESSNA 180	N
3 2244N1209	072864 ABERDEEN S DAK	BEEHCRAFT D18S	N
3 2249N5716X	072864 PEORIA ILL	CESSNA 320	N
3 2361N48K	080564 E BOSTON MASS	BEEHCRAFT E18S	N
3 2837N797K	090964 SACRAMENTO CALIF	BEEHCRAFT 65	N
3 2894N6811Q	091364 SEWARD AFB TENN	BEEHCRAFT 65-80	N
3 2927N75200	091664 FT LAUDERDALE FLA	BEEHCRAFT E18S	N
3 3098N5252A	100364 WHEELING ILL	CESSNA 310R	N
3 3207N6852S	101264 REDDING CALIF	AERO COMM 680E	N
3 3249N8727M	101864 CLARK SUMMITS PA	BEEHCRAFT 23	N
3 3267N7048Y	102064 EVERETT WASH	PIPER PA30	N
3 3343N613Q	102764 SALINAS CALIF	BEEHCRAFT F50	N
3 3410N120BB	110564 WILMINGTON OHIO	PIPER PA23	N
3 3415N330KL	110664 BROOMFIELD COLO	BEEHCRAFT H18	N
3 3534N177G	112164 KNOXVILLE TENN	BEEHCRAFT H18	N
3 3620N9224T	120764 FRANKLIN LA	CESSNA 180	N
3 3821N413TB	121864 BOERNE TEX	BEEHCRAFT C45H	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING - CORPORATE/EXECUTIVE
 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
 COMMERCIAL OR ATR PILOT CERTIFICATE
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 1964 -1968

3	3847N4172B	110864 CHICAGO ILL	AERO CMDR	520	N
3	3863N919X	121164 WORCESTER MASS	BEEHCRAFT	H18	N
6	0088N1848H	111664 TABRUK SAUDIA ARBCESSNA		310	N
6	0096N171Q	111264 FREEPORT BAHAMAS	LOCKHEED	L-18	F
2	0026N168H	021865 WASHINGTON DC	NO AMERICAN	265A	N
2	0034N6321C	012465 DENVER COLO	DOUGLAS	DC-7	N
2	0039N202R	012865 OKLAHOMA CTY OKLADOUGLAS		B-26	N
2	0093N600N	030565 PHILIPSBURG PA	LOCKHEED	L-18	F
2	0111N7260C	032865 LAUREL MISS	LOCKHEAD	PV-2	N
2	0166N3071G	042865 TULLY NY	BELL	47G4	N
2	0193N5482Y	041565 MILLVILLE PA	PIPER	PA-23	F
2	0201N5161B	042065 CHINO CALIF	BELL	47G2	N
2	0224N9347F	051065 GRAND CANYON ARIZHUGHES		2698	N
2	0244N5104D	012765 UNITY OREG	CESSNA	182	F
2	0250N844K	031065NBRIDGEPORT W VA	BEEHCRAFT	E-18S	F
2	0380N4827P	021965 DELANCEY NY	PIPER	PA-23	F
2	0439N123H	070265NSTOCKTON CALIF	DOUGLAS	DC-3	M
2	0510N2010	052665 EL DORADO ARK	GRUMAN	G-159	N
2	0560N42LZ	052765NSPRINGFIELD MO	LOCKHEED	L-18	N
2	0587N500M	070865 SAN ANTONIO TEX	DOUGLAS	A-26B	M
2	0729N6136	110365 MT.HOLLY NJ	PIPER	PA-23	C
2	0835N74858	102965 TALLAHASSEE,FLA.	CONVAIR	240D	N
2	0855N3092G	111565 EMPIRE LA	BELL	47-J2A	N
2	0877N67907	091765NSCOTTSBLUFF,NEBR	DOUGLAS	A-26	F
2	1004N507WB	120665 SAN ANTONIO,TEX	DOUGLAS	A-26	N
2	1021N300N	030565 MIAMI FLA	LOCKHEED	L-18	F

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING - CORPORATE/EXECUTIVE
 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
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 1964 -1968

3 0039N9589B	010865 GRANBURY TEX	CESSNA	180	N
3 0114N8088M	012065 MONROE LA	CESSNA	310I	N
3 0157N3001S	011865 NEGAUNEE MICH	BEECHRAFT	855	N
3 0196N3044P	011365 WILKESBORO NC	PIPER	PA23	N
3 0205N398B	012765 FT LAUDERDALE FL	BEECHRAFT	E18	N
3 0233N411U	010165 FREDERICK MD	BEECHRAFT	D18S	N
3 0236N9660C	012465 SACRAMENTO CALIF	BEECHRAFT	C45H	N
3 0330N7970K	020665 DES PLAINES ILL	BEECHRAFT	95-55B	N
3 0524N6793T	032865 ASPEN COLO	CESSNA	310D	N
3 0568N6231D	040165 WILEY FORD W VA	AERO CMDR	560E	N
3 0645N1708H	041965 CINCINNATI OHIO	CESSNA	310C	N
3 0731N4444Q	042065 FREDERICK MD	BEECHRAFT	65-80	N
3 0795N87Q	030465 EL PASO TEX	BEECHRAFT	D-18S	N
3 0817N911Y	050565 ROCK SPRINGS WYO	BEECHRAFT	95	N
3 0866N639R	022665 JACKSONVILLE FLA	CESSNA	RILEY	N
3 0884N4165D	040965 DUBUQUE IOWA	HELIO	H-395	M
3 0885N6950T	040965 BEVERLY MASS	CESSNA	310D	N
3 1108N5440Y	041665 LA PRYOR TEX	PIPER	PA-23	N
3 1183N7670Y	041865 OKLAHOMA CITY OKL	PIPER	PA-30	N
3 1243N828LS	041965 HOUSTON TEX	BEECHRAFT	H-18	N
3 1338N1182F	052965 ORLANDO FLA	BEECHRAFT	D18S	N
3 1439N414N	061565 SEDONA ARIZ	AERO CMDR	680	M
3 1707N9470X	062765 FAISON NC	CESSNA	210	N
3 2028N1705C	072265 KEENE TEX	CESSNA	180	N
3 2168N1056Q	081365 CAPE CORAL FLA	CESSNA	310H	N
3 2400N5484Y	071365 RENESSELAER IND	PIPER	PA-23	N

AIRCRAFT ACCIDENT LISTING
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 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
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 1964 -1968

3	2405N8999E	081765 CLEVELAND OHIO	BEEHCRAFT D-18S	M
3	2757N286G8	092165 ALLENTOWN PA	PIPER PA-23	N
3	2773N541M	090965 CAMARILLO CALIF	AERO CMDR 680-FL	N
3	3031N6228D	101865 MEEKER COLO	AERO CMDR 680	M
3	3046N4183B	101665 MIDLAND TEX	AERO CMDR 520	N
3	3084N4622P	101465 REVERDALE MD	PIPER PA-23	N
3	3165N171DC	110865 MIAMI FLA	BEEHCRAFT D-18S	N
3	3270N6854Q	060665 SCHENECTADY NY	BEEHCRAFT 95-855	N
3	3389N935TX	102165 FT WAYNE IND	BEEHCRAFT D-18S	N
3	3690N3027T	111865 BILLINGS MONT	CESSNA 320	N
3	3720N5347A	120165 WASHINGTON DC	CESSNA 310B	N
3	3777N770HB	111765 ALBUQUERQUE N MEXA	AERO CMDR 680-FL	N
3	3882N5574V	110865 MINNEAPOLIS MINN	AERO CMDR 520	N
3	3923N129Q	082265 GRANDIN MO	BEEHCRAFT 95-855	N
2	0111N95B	021966 W. PALM BEACH FLA	AERO COMDR 1121	N
2	0190N1135K	022466 DES MOINES IOWA	HAWKER-SDLYDH-125	C
2	0415N189L	051166 HOUSTON TEX	BEECH D18S	F
2	0585N73208	070166 GRAND CANYON ARIZ	BELL 47G3B	M
2	0602N73909	041266 GRAND CANYON ARIZ	BELL 47G-3B	F
2	0736N926G	081566 PADUCAH KY	HAWKER-SDLYDH-125	N
2	0764N3646B	083166 FREMONT OHIO	BEECH E18S	N
2	0861N355MJ	112366 EVANSVILLE IND	N. AMERICAN 265-40	N
2	0887N79354	112366 COUNCIL BLFS IOWA	MOONEY M20E	C
2	0900N342WS	121966 ELKHART IND	AERO COMDR 680F	C
2	0910N529N	031166 GREEN CASTLE MO	BEECH 65-90	F
2	0914N339	111766 CHICAGO ILL	LOCKHEED L-18	M

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING - CORPORATE/EXECUTIVE
 CORPORATE/EXECUTIVE AIRCRAFT OPERATOR
 COMMERCIAL OR ATR PILOT CERTIFICATE
 U. S. GENERAL AVIATION
 1964 -1968

2	0924N8518F	100966 CLE ELUM WASH	BELL	47G3B1	N
2	0931N363G	102066 PITTSFIELD MASS	GRUMMAN	G-159	N
2	0942N52935	071766 PEORIA ILL	DOUGLAS	DC-3	N
2	0953N8799F	091666 LINCOLN RI	HUGHES	269A	F
2	0954N324Y	091966NMORGAN CITY LA	SIKORSKY	S-62A	C
2	0957N3092G	092266NLEEVIILE LA	BELL	47J-2A	N
2	0958N6736D	092366NLEEVIILE LA	BELL	47J	N
2	1066N908LN	122866 RICHMOND VA	GRUMMAN	G-159	N
2	1075N73208	121266 GRAND CANYON ARIZ	BELL	47G-3B	C
2	1078N360J	110566 CHICAGO ILL	N.AMERICAN	NA-265	N
2	1087N92877	040566	ZN.AMERICAN	B-25	F
3	0030N420RJ	011766 SAN FRANCISCO CALIF	BEECHCRAFT	C45H	N
3	0059N8948M	011566 ELKHART IND	BEECHCRAFT	35B33	N
3	0069N5512Y	020166 COLUMBUS OHIO	PIPER	PA-23	N
3	0098N2609C	012766 FORT WAYNE IND	CESSNA	310	N
3	0112N103MC	021266 LOS ANGELES CALIF	PIPER	PA-23	N
3	0136N78342	011866 SYRACUSE NY	AERO CMDR	680F	N
3	0163N3310	012866 PORTLAND ME	CESSNA	310B	N
3	0167N8999A	020666 JAMAICA NY	BEECHCRAFT	95-855	N
3	0176N4324D	013066 WOOSTER OHIO	BEECHCRAFT	D50	N
3	0200N800G	013066 NEWPORT NEWS VA	BEECHCRAFT	H18	N
3	0383N2673Z	022666 MORGAN CITY LA	CESSNA	185C	N
3	0716N56K	031766 CHICAGO ILL	BEECH	G18S	N
3	0747N179L	033166 ROANOKE VA	BEECH	D-18S	N
3	0776N2427	032566 QUINCY ILL	BEECH	E18S	N
3	0793N332PC	040466 MARFA TEX	LEAR	23	N

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3 0809N7475E	032966NBYRON ILL	CESSNA	210	N
3 0861N550MS	042166 NEWARK NJ	BEECHCRAFT	B50	N
3 0877N503GD	042866 QUINCY ILL	PIPER	PA-23	N
3 0922N1142Q	011966 DES MOINES IOWA	CESSNA	310H	N
3 1030N517S	041166 NEWARK NJ	BEECH	E50	N
3 1037N9388R	022466 HAGERSTOWN MD	AERO COMDR	500-B	M
3 1067N2670Y	042866NCLEWISTON FLA	CESSNA	180E	N
3 1107N900KC	051666 IRON MOUNT@N MICH	BEECH	E50	N
3 1124N4196B	032866 MUSKOGEE OKLA	AERO COMDR	520	N
3 1183N5500E	021766 SAGINAW MICH	CESSNA	320	N
3 1195N262LC	031666 BURBANK CALIF	BEECH	65	N
3 1261N650M	042166 COLUMBIA LA	BEECH	E18S	N
3 1394N3333C	022366 DES MOINES IOWA	BEECH	E18S	N
3 1399N316M	031866 CHICAGO ILL	LEAR	23	M
3 1518N5637D	061566 HATTERAS NC	BEECH	E18S	N
3 1521N6604U	061766 HOPEWELL OHIO	MOONEY	MK20C	N
3 1637N9227T	071266 VENICE LA	CESSNA	180	N
3 1645N181D	011466 MONETT MO	CESSNA	310D	N
3 1688N351RR	050366 ARECIBO PR	BEECH	95-B55	N
3 1773N332PC	072966 MANTEO NC	LEAR JET	23	N
3 1793N7673Y	070166 AUBURN ME	PIPER	PA-30	N
3 1981N6363F	072366 N.CUMBERLAND W VAC	CESSNA	337	N
3 1987N222YW	072566 RACINE WIS	CESSNA	310H	N
3 2115N6262X	080166 DIMMIT TEX	AERO COMDR	500-A	N
3 2166N3301P	042066 IOWA CITY IOWA	PIPER	PA-23	N
3 2180N198Q	031466 HAWARD@N IOWA	BEECH	S35	N

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3 2187N3229P	033166	GUTTENBERG IOWA	PIPER	PA-23	N
3 2328N252R	082366	MORRISTOWN NJ	AERO CMDR	1121	N
3 2415N4303D	081266	CHARLOTTE NC	BEECH	D50	N
3 2529N455HC	090866	DOUGLAS GA	BEECH	95-855	N
3 2536N309FS	091266	BLOOMINGTON ILL	CESSNA	310J	N
3 2580N242WT	101066	NEW ORLEANS LA	LEAR JET	23	N
3 2772N198Q	071266	WAHPETON N DAK	BEECH	S35	N
3 2777N2000T	071666	DETROIT LAKES MINN	CESSNA	310I	N
3 3093N20S	072566	IMPERIAL CALIF	LEAR JET	23	N
3 3196N1141Q	061366	MOLINE ILL	CESSNA	310H	N
3 3517N660M	101066	WAUKEGAN ILL	BEECH	D50A	N
3 3531N3049T	120966	FARMINGTON N MEX	CESSNA	320	N
3 3532N416LJ	121266	LAS VEGAS NEV	LEAR JET	23	N
3 3542N219Y	102766	REEDSVILLE PA	BEECHCRAFT	E18S	N
3 3589N5711Q	112466	RAMSEUR NC	MOONEY	M20E	N
3 3637N6209Y	111366	EUNICE LA	PIPER	PA-23	N
3 3735N5248A	102266	ROCHESTER MINN	CESSNA	310	N
3 3751N903AR	102866	SPARTA ILL	PIPER	PA-23	N
3 3810N9836L	112966	ALIEF TEX	CESSNA	320B	N
3 3851N610WA	111366	KEOKUK IOWA	BEECH	95-55	N
3 3900N810S	111866	EASTON PA	CESSNA	320B	N
3 4037N824CP	120366	FRANKFORT MICH	BEECH	95-C55	N
3 4066N9711	120266	WHEELING W VA	BEECH	G18S	N
3 4127N9646R	122166	NAPOLEON OHIO	BEECH	B95	N
3 4222N4118T	123066	MORRISTOWN NJ	CESSNA	320D	N
3 4237N6959L	121266	KANSAS CITY MO	CESSNA	310K	N

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3	4362N2A	111066 WILMINGTON CALIF	GOODYR	ACFTGZ-19A	N
3	4437N2214Z	122066 ERIE,PA	CESSNA	411	N
6	0036N9451F	060966 CAIRO U.A.R	HUGHES	300	N
6	0038N5151B	061766NL.CAND COSTA RIC	BELL	47J	N
6	0048N4053Y	070566 BENGHAZI LIBYA	CESSNA	185A	N
6	0060N28343	081766 MERIDA MEX	DOUGLAS	DC-3	N
6	0084N8547F	082366 RAHGIRD IRAN	BELL	47G-3B	F
2	0011N146X	010567 PORT LAVACA,TEX	BEECH	95-B55	F
2	0050N770	020267 WEST MIFFLIN,PA	HAWKER-SOLYDH	125	N
2	0066N9301F	010567 BLOOMINGTON,CALIF	HUGHES	269B	C
2	0106N5437C	032467 MERCED,CALIF	DOUGLAS	DC-3C	M
2	0120N7388	021067 DALLAS,TEX	BEECH	D18S	F
2	0145N7004	041167 FLUSHING NY	GRUMMAN	G-159	N
2	0154N8583F	042467NMORGAN CITY LA	BELL	47J-2A	N
2	0183N1296P	041667 ENDICOTT,NY	BEECH	65-A90	F
2	0245N751A	061267 LAPLACE,LA	SIKORSKY	S-55	M
2	0311N910H	070667 TULSA,OKLA	DOUGLAS	A-26C	N
2	0352N1200M	050767 LINN CREEK,MO	DOUGLAS	DC-3	N
2	0362N298GB	050367 HURON,S DAK	GRUMMAN	G-73	C
2	0364N3149L	051267 ATLANTA, GA	CESSNA	310J	N
2	0372N637E	080167 NORTHPORT,ALA	LOCKHEED	L-18	N
2	0388N205M	072567 NEW CUMBERLAND,PA	GRUMMAN	G-159	N
2	0436N600R	041467 ROSEMONT,ILL	N.AMERICAN	NA-260	N
2	0439N701W	053167 WHEELING,ILL	AERO COMDR	560-E	C
2	0540N4957S	061267 LAPLACE,LA	SIKORSKY	HRS-1	N
2	0560N7784Y	042367 CHARLES CITY,IOWA	PIPER	PA-30	F

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2	0597N301V	080167 PHOENIX, ARIZ	BEECH	E18S	N
2	0598N501W	050867 JOHNSON CITY, NY	BEECH	E18S	F
2	0624N73OR	051467NVENTURA, CALIF	N.AMERICAN	NA-265	F
2	0633N1330I	082967 WNDSDR LOCKS, CONNSIKORSKY	S-51		N
2	0695N20M	051167 INDIANAPOLIS, IND	LOCKHEED	18	N
2	0707N8000G	080967 PARSHALL, COLO	AERO-COMDR	520	F
2	0803N63440	030367 DAKDALE, CALIF	DOUGLAS	DC-3	N
2	0851N8495E	121567NANCHORAGE, ALAS	BELL	47G-2A	N
2	0853N2628B	022267 JETSON, KY	AERO COMDR	520	F
2	0854N91RX	042867 ACWORTH, GA	BEECH	E18S	F
2	0937N809F	110767 WASHINGTON, DC	SUDAVIATIONDA20		N
2	1000N3831C	092767 DALLAS, TEX	AERO COMDR	560E	F
2	1009N6231D	121167 SEVEN SPRINGS, PA	AERO COMDR	560E	F
2	1038N348E	120767 ATHENS, LA	BEECH	V-35	F
2	1109N390R	121067 MADISON, WIS	BEECH	H18	F
3	0040N400V	010567 EL PASO, TEX	BEECH	65-A90	N
3	0047N352WB	010767 MINNEAPOLIS, MINN	BEECH	E18S	N
3	0087N6167X	010967 LINCOLN NEBR	AERO COMDR	680F	N
3	0090N78383	010967 BRINKLEY, ARK	AERO COMDR	500-A	N
3	0102N4962P	011167 HAGERSTOWN MD	PIPER	PA-23	N
3	0140N703WC	012467 JEFFERSON, OHIO	BEECH	65-A90	N
3	0143N3189Y	012067 CASPER, WYO	CESSNA	182E	N
3	0147N2126X	011367 MALAD CITY ID	CESSNA	337	N
3	0170N380C	011667 FARMINGTON N MEX	BEECH	65-80	N
3	0186N85TM	012267 ATLANTA, GA	BEECH	850	N
3	0234N8907Z	012567 MINNEAPOLIS, MINN	CESSNA	310G	N

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3 0278N712Q	012667 CINCINNATI, OHIO	BEECH	65-80	N
3 0468N3217P	021167 FALLBROOK, CALIF	PIPER	PA-23	N
3 0491N496CM	021667 MUSKEGON MICH	CESSNA	320	N
3 0520N46M	021767 FAIRHOPE, ALA	BEECH	E18S	N
3 0636N6800S	022767 COLUMBUS, OHIO	AERO COMDR	680F	N
3 0748N5799X	030767 RENO, NEV	CESSNA	320	N
3 0801N21U	031467 CHICAGO, ILL	BEECH	E18S	N
3 0870N4963B	031567 BIRMINGHAM, ALA	BEECH	D50	N
3 0873N162A	031667 STEUBENVILLE, OHIO	CESSNA	411	N
3 0931N3765B	032267 TULSA, OKLA	BEECH	E18S	N
3 0958N827Q	032567 TERMINAL, TEX	BEECH	65	N
3 1030N3194D	032867 GRANBY, COLO	CESSNA	180	N
3 1039N952	032967 COLORADO SPG COLO	BEECH	H18	N
3 1169N314Q	041367 RHINELANDER, WIS	BEECH	65-A80	M
3 1273N793A	042067 NEWARK, NJ	BEECH	D50C	N
3 1290N5635D	042667 COLUMBUS, OHIO	BEECH	E18S	N
3 1354N6980T	042967 NEW HAVEN, CONN	CESSNA	310D	N
3 1669N531U	052367 HOUSTON, TEX	BEECH	95-C55	N
3 1760N9612Y	052867 MEMPHIS, TENN	BEECH	D50E	N
3 1766N965FT	052867 EVANSVILLE, IND	BEECH	E18S	N
3 1984N1174Z	053067 SUMMERSVILLE, W VA	AERO COMDR	680F	N
3 2125N2609C	062367 WARSAW, IND	CESSNA	310	N
3 2192N827T	041267 ALCOVA, WYO	BEECH	65-90	N
3 2229N5557Y	070567 AUGUSTA, GA	PIPER	PA-23	N
3 2485N218X	072167 VANDALIA, OHIO	BEECH	H18	N
3 2733N9019Y	080167 MILLINGTON, TENN.	PIPER	PA-31	N

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3 2787N111D	072867 CHARLOTTE,NC	AERO COMDR 680	N
3 2833N3531B	081467 BALTIMORE,MD	BEECH 0185	N
3 2846N1540Z	082167 BOONE,NC	BEECH A55	N
3 2880N9929X	081367 ATLANTA,GA	CESSNA 185	N
3 2919N4957T	013067 EL PASO,TEX	CESSNA 411	N
3 2955N999NJ	081867 WHEELING,ILL	DEHAVILAND DH 104	N
3 3162N8580M	083167 PICAYUNE,MISS	BEECH 35-B33	N
3 3263N54K	080867 TAMPA,FLA	BEECH E185	N
3 3310N1153S	091067 MONTAUK POINT,NY	BEECH 65-90	N
3 3346N1966W	090667 WHEELING,ILL	LEAR JET 23	N
3 3378N811S	082867 JAMAICA,NY	BEECH 65-80	N
3 3394N21X	092167 WALNUT RIDGE,ARK	BEECH E185	M
3 3415N5100Y	100167 NASHVILLE,TENN	PIPER PA-23	N
3 3472N84D	093067 SELINGSGROVE,PA	BEECH H18	N
3 4057N6284P	111367 OMAHA,NEBR	PIPER PA-24A	N
3 4109N727SG	110567 PENN YAN,NY	BEECH 95-B55	N
3 4147N9390Y	081167 ATLANTA,GA	BEECH J50	N
3 4186N4005L	112967 SALINAS,CALIF	CESSNA 421	M
3 4367N716AG	112267 SACRAMENTO,CALIF	BEECH 65-80	N
3 4521N617EJ	121367 PHOENIX,ARIZ	CESSNA 411	N
3 4532N831Q	090967 WARRENTON,OREG	BEECH 65	N
3 4563N3024T	122967 FARMINGTON,N MEX	CESSNA 320C	N
3 4589N5691Y	121867 WINDOOSKI,VT	PIPER PA-23	N
3 4592N511JL	122067 LEBANON,ILL	BEECH 95-A55	N
3 4650N772K	121267 IOWA CITY,IOWA	BEECH 65-A90	M
3 4667N135W	120367 JACKSONVILLE,FLA	BEECH H18	N

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3	4677N9470T	122767 GASSAWAY,W VA	CESSNA	210	N
3	4708N9658T	091667 EVANSVILLE,IND	CESSNA	210	N
3	4748N213RC	090567 BOWLING GREEN,KY	AERO COMDR	500-U	N
3	4754N825LJ	103167 HUNTSVILLE,ALA	LEAR JET	23	N
6	0064N74817	062867 PT. ANTONO,JAMAICA	SIKORSKY	S-52-3	N
6	0099N505N	100567 SASKATCHEWAN,CAN	BEECH	C-45G	F
6	0126N1309V	091367 KINGSTON,JAMAICA	CURTISS-WRTC	-46F	N
6	0131N1391Z	110267 CORN IS,NICARAGUA	BEECH	95-55	N
3	0012N3482Q	010568 PONTIAC,MICH	CESSNA	320E	N
3	0035N909T	011268 NORWICH, NY	BEECH	H18	N
3	0040N8173M	011368 GRAND RAPIDS,MICH	CESSNA	310I	N
3	0099N3095D	012368 ERIE,PA	CESSNA	310	N
3	0105N9490S	011168 HOUSTON,TEX	BEECH	95-C55	N
3	0160N800Q	012668 FRANKFORT,MICH	BEECH	65-A90	N
3	0330N2731B	022868 LEXINGTON,KY	AERO COMDR	560A	N
3	0339N5452E	011968 YOUNGSTOWN,OHIO	HELIO ACFT	H-250	N
3	0344N3254R	011068 ELKHART,IND	CESSNA	411A	M
3	0450N188D	022768 MARENGO,ILL	AERO COMDR	680F	N
3	0500N7822S	032068 NCASTAIC,CALIF	BELL	47G3B1	M
3	0552N2904R	022168 CARRIZO SPGS,TEX	CESSNA	310G	N
3	0734N3212R	040868 MEMPHIS,TENN	CESSNA	411	N
3	0751N216P	021068 COLUMBIA,SC	BEECH	65	N
3	0757N2751Q	021568 PLAINVILLE,CONN	CESSNA	182	N
3	0775N1846	031368 PARKERSBURG,W VA	M. DESSAULT	FALCON	F
3	0808N7707C	012468 SITKA,ALAS	N. AMERICAN	B-25	N
3	0849N9487F	032868 ST PAUL,MINN	HUGHES	269B	N

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3 0998N4901B	041668 GARY,IND	BEECH	C50	N
3 1003N9463F	042368 JOLIET,ILL	HUGHES	269B	N
3 1036N8973Z	050468 FLETCHER,NC	CESSNA	310G	N
3 1080N67935	020968 MIAMI,FLA	CURTISS	WRTC-46	N
3 1177N7871L	050168 MITCHELL,IND	BEECH	V35	N
3 1182N2603	050268 HOUSTON,TEX	CESSNA	180A	N
3 1215N5896J	050968 SCOTTSBLUFF,NEBR	BEECH	95B55	N
3 1448N6033Y	060568 ALEXANDRIA,LA	PIPER	PA-23	N
3 1611N895K	062468 CHICAGO,ILL	BEECH	65-90	F
3 1648N342N	061068 GARLAND,TEX	BEECH	65	M
3 1750N6243B	030768 LAKE HUGHES,CALIF	AERO COMDR	680-E	F
3 1779N721ZC	042968NFT.WAYNE,IND	PIPER	PA-31	N
3 1823N406VW	061268 AMBLER,PA	CESSNA	411	N
3 1998N9484S	071068 FT.LAUDERDALE,FLA	BEECH	95-C55	N
3 2004N172S	031968 WESTON,VT	BEECH	G18S	F
3 2054N3773Q	052068 PHONETON,OHIO	BEECH	95-C55	F
3 2056N6908R	080668 CHESAPEAKE,VA	CESSNA	T-210H	F
3 2125N8394H	070368 RESEDA,CALIF	DOUGLAS	A-26B	F
3 2138N2229F	070268 JACKSONVILLE,FLA	CESSNA	310L	N
3 2173N186X	061968 CANTIL,CALIF	CANADAIR	MK VI	N
3 2243N196KC	070168 FAYETTEVILLE,ARK	AERO COMDR	1121	F
3 2333N3616Y	071868 MCKINLEYVILLE,CALIF	CESSNA	210	N
3 2434N388R	072368 LITTLE ROCK,CALIF	LEAR JET	24A	N
3 2435N1627	072368 GRAND ISLE,LA	GRUMMAN	G-73	N
3 2445N2009	090668 AVOCA,PA	N.AMERICAN	NA-265	N
3 2473N224W	071968 PARIS,TEX	AERO COMDR	680-FL	F

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3 2551N8314G	071968	FRESNO,CALIF	CESSNA	337B	N
3 2721N340	041568	VALPARAISO,IND	LOCKHEED	PV-1	N
3 2856N252LD	080468	KENNARD,TEX	AERO COMDR	500-B	N
3 2868N3310	070868	BURLINGTON,VT	CESSNA	310	N
3 2990N620G	082268	FITCHBURG,MASS	BEECH	95-855	N
3 3015N1313X	083068	PORTLAND,TEX	BELL	47G-4A	N
3 3112N9465S	071568	KANSAS CITY,MO	BEECH	95-C55	N
3 3258N162F	100968	DETROIT,MICH	BEECH	E18S	N
3 3402N113P	051068	SCOTT CITY,MO	BEECH	H50	F
3 3587N95A	091568	SPRINGFIELD,ILL	BEECH	J50	N
3 3616N9088Y	090468	PARIS,ILL	PIPER	PA-31	N
3 3621N173D	091868	KANSAS CITY,KANS	BEECH	95-855	N
3 3761N3062T	102368	ROCKFORD,ILL	CESSNA	320	N
3 3762N348E	102468	HOPEWELL,VA	CESSNA	401	C
3 3822N70U	110168	BELLE CHASSE,LA	GRUMMAN	G-44	M
3 3829N7986C	110568	BAILEY CROSRDS,VAN	AMERICAN	SNJ-5	N
3 3841N900JL	120568	WATERTOWN,NY	AERO COMDR	1121	N
3 3856N414GN	111768	HOUGHTON,MICH	BEECH	B90	N
3 3915N4183T	091968	ROCKFORD,ILL	CESSNA	320D	N
3 3984N3032	121968	BUFFALO,NY	AERO COMDR	1121AC	N
3 4051N427MT	112668	NVAN BUREN,MO	HELIO ACFT	H-295	N
3 4212N6149X	120468	AMARILLO,TEX	AERO COMDR	680-F	N
3 4253N2219F	100868	AUSTIN,TEX	CESSNA	310L	F
3 4391N696MR	111268	LONG BEACH,CALIF	BELL	206A	N
3 4445N941V	121368	CHICAGO,ILL	BEECH	A65	N
3 4446N6800Q	121968	FRESNO,CALIF	BEECH	65-80	N

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3	4479N3160K	122668 ELKHART, IND	CESSNA	421	N
3	4503N5814X	120668 APPLETON, WIS	CESSNA	310F	N
3	4535N957T	100868 HETLAND, S DAK	BEECH	N35	F
3	4587N111W	122768 NLUTCHER, LA	GRUMMAN	G-44	C
3	4592N11141	123168 JACKSONVILLE, FLA	BEECH	D18S	N
3	4630N3550X	122168 NSPRINGFIELD, MO	MITSUBISHI	MU-2B	F
3	4632N148E	091368 N HOLLYWOOD, CALIF	AERO COMDR	1121A	F
3	4640N27W	050468 NBRUNI, TEX	FAIRCHILD	F-27J	F
3	4650N5943Y	111868 CHARLOTTE SVLLE, VA	PIPER	PA-23	F
3	4660N1401M	111868 LATHAM, NY	BEECH	65	F
3	4717N41982	052468 LAFITTE, LA	GRUMMAN	G-44A	F
3	4791N919P	112668 CHICAGO, ILL	DOUGLAS	A-26B	M
3	4824N783EF	082768 TROY, MICH	AERO COMDR	680FL	N
3	4841N199H	021768 CAYCE, SC	BEECH	TC 45G	N
3	4865N700M	123168 LINCOLN, NEBR	HAWKER-SD	LDYDH 125	N
3	4878N1321X	121668 GRAND CANYON, ARIZ	BELL	47G3B1	N
3	4883N162A	120668 TETERBORD, NJ	CESSNA	411	C
3	4901N9054Y	100368 FREDERICKSBURG, VA	PIPER	PA-31	N
3	4918N7610U	082768 MINNEAPOLIS, MINN	AERO COMDR	680T	N
6	0007N1940S	041168 LORETO, BAJA, MEX	LOCKHEED	18	N
6	0031N60G	121268 FREEPORT, BAHAMAS	LOCKHEED	18	N
6	0045N1940S	041268 LORETO, MEX	LOCKHEED	18	N
6	0062N74139	060768 NTAMPICO, MEX	DOUGLAS	DC3A	M

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
GROUND-WATER LOOP-SWERVE			3	37	40	40	9.11
DRAGGED WINGTIP, POD, OR FLOA				2	2	2	.46
WHEELS-UP LANDING				64	64	64	14.58
WHEELS-DOWN LANDING IN WATER			1		1	1	.23
GEAR COLLAPSED				24	24	24	5.47
GEAR RETRACTED	1		1	38	40	40	9.11
HARD LANDING			1	15	16	16	3.64
NOSE OVER/DOWN			1	3	4	4	.91
ROLL OVER				1	1	1	.23
OVERSHOOT		1	2	23	26	26	5.92
UNDERSHOOT	3		2	13	18	18	4.10
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT	3			2	5	5	1.14
ONE AIRBORNE							
BOTH ON GROUND				3	3	3	.68
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	5	2		2	9	9	2.05
UNCONTROLLED	7	2			9	9	2.05
<u>COLLIDED WITH</u>							
WIRES/POLES	1	2	1		4	4	.91
TREES	5	1		2	8	8	1.82
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS				4	4	4	.91
ELECTRONIC TOWERS	1				1	1	.23
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD				2	2	2	.46
ANIMALS				3	3	3	.68
CROP							
FLAGMAN LOADER							
DITCHES		1		4	5	5	1.14
SNOWBANK				7	7	7	1.59
PARKED AIRCRAFT				3	3	3	.68
AUTOMOBILE				2	2	2	.46
DIRT BANK	1			2	3	3	.68

INJURY INDEX

PERCENT	FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
		FATAL	SERIOUS	MINOR	NONE			
	OBJECT			1	9	10	10	2.28
	BIRD STRIKE	1		1	6	8	8	1.82
	<u>STALL</u>	2	1			3	3	.68
	SPIN							
	SPIRAL	2				2	2	.46
9.11	MUSH	1	1	2	3	7	7	1.59
.46	<u>FIRE OR EXPLOSION</u>							
14.58	IN FLIGHT	1		1	4	6	6	1.37
.23	ON GROUND				7	7	7	1.59
5.47	<u>AIRFRAME FAILURE</u>							
9.11	IN FLIGHT	4		1	2	7	7	1.59
3.64	ON GROUND				1	1	1	.23
.91	ENGINE TEARAWAY				1	1	1	.23
.23	ENGINE FAILURE OR MALFUNCTION	12	3	5	32	52	52	11.85
5.92	<u>PROPELLER/ROTOR FAILURE</u>							
4.10	PROPELLER	1			4	5	5	1.14
	TAIL ROTOR	3			3	6	6	1.37
1.14	MAIN ROTOR							
	PROPELLER/ROTOR ACCIDENT TO P	1	2			3	3	.68
.68	JET INTAKE/EXHAUST ACCIDENT T							
	PROPELLER/JET/ROTOR BLAST				1	1	1	.23
2.05	TURBULENCE	1			2	3	3	.68
2.05	HAIL DAMAGE TO AIRCRAFT							
	LIGHTNING STRIKE							
.91	EVASIVE MANEUVER				1	1	1	.23
1.82	UNCONTROLLED ALTITUDE DEVIATE							
	DITCHING							
	MISSING AIRCRAFT, NOT RECOVER	1				1	1	.23
.91	MISCELLANEOUS/OTHER			2	7	9	9	2.05
.23	UNDETERMINED	2				2	2	.46
.46	RECORDS	59	16	25	339	439		
.68	ACCIDENTS	59	16	25	339		439	
	PERCENT	13.4	3.6	5.7	77.2			

ANALYTIC TABLE

FIRST TYPE OF ACCIDENT BY AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST TYPE OF ACCIDENT	AIRCRAFT DAMAGE				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
GROUND-WATER LOOP-SWERVE	3	37			40	40	9.11
DRAGGED WINGTIP, PDD, OR FLOA		2			2	2	.46
WHEELS-UP LANDING		64			64	64	14.58
WHEELS-DOWN LANDING IN WATER		1			1	1	.23
GEAR COLLAPSED		24			24	24	5.47
GEAR RETRACTED	1	39			40	40	9.11
HARD LANDING		16			16	16	3.64
NOSE OVER/DOWN		4			4	4	.91
ROLL OVER	1				1	1	.23
OVERSHOOT	3	23			26	26	5.92
UNDERSHOOT	4	14			18	18	4.10
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT	2	2	1		5	5	1.14
ONE AIRBORNE							
BOTH ON GROUND		3			3	3	.68
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	7	2			9	9	2.05
UNCONTROLLED	8	1			9	9	2.05
<u>COLLIDED WITH</u>							
WIRES/POLES	1	3			4	4	.91
TREES	6	2			8	8	1.82
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS		4			4	4	.91
ELECTRONIC TOWERS	1				1	1	.23
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD		2			2	2	.46
ANIMALS		3			3	3	.68
CROP							
FLAGMAN LADDER							
DITCHES		5			5	5	1.14
SNOWBANK		7			7	7	1.59
PARKED AIRCRAFT		2	1		3	3	.68
AUTOMOBILE		2			2	2	.46
DIRT BANK	1	2			3	3	.68

AIRCRAFT DAMAGE

FIRST TYPE OF ACCIDENT	<u>AIRCRAFT DAMAGE</u>				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
OBJECT	1	9			10	10	2.28
BIRD STRIKE	1	7			8	8	1.82
<u>STALL</u>	3				3	3	.68
SPIN							
SPIRAL	2				2	2	.46
MUSH	3	4			7	7	1.59
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT	2	4			6	6	1.37
ON GROUND	1	6			7	7	1.59
<u>AIRFRAME FAILURE</u>							
IN FLIGHT	4	3			7	7	1.59
ON GROUND		1			1	1	.23
ENGINE TEARAWAY		1			1	1	.23
ENGINE FAILURE OR MALFUNCTION	21	31			52	52	11.85
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER	1	4			5	5	1.14
TAIL ROTOR	3	3			6	6	1.37
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P			2	1	3	3	.68
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST		1			1	1	.23
TURBULENCE	1	2			3	3	.68
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER		1			1	1	.23
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER	1				1	1	.23
MISCELLANEOUS/OTHER		9			9	9	2.05
UNDETERMINED	2				2	2	.46
RECORDS	84	350	3	2	439		
ACCIDENTS	84	350	3	2		439	
PERCENT	19.1	79.7	.7	.5			

ANALYTIC TABLE

FIRST PHASE OF OPERATION BY INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

FIRST OPERATIONAL PHASE

FATAL
 SERIOUS
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

STATIC

	FATAL	SERIOUS	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
STARTING ENGINE/S			3		3	3	.68
IDLING ENGINE/S	1	2	5		8	8	1.82
ENGINE RUNUP			1		1	1	.23
IDLING ROTORS			1		1	1	.23
PARKED-ENGINES NOT OPERATING							
OTHER							

TAXI

TO TAKEOFF		1	14		15	15	3.42
FROM LANDING			17		17	17	3.87
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	1		1	12	14	14	3.19
INITIAL CLIMB	4	4	2	25	35	35	7.97
VERTICAL				3	3	3	.68
RUNNING							
ABORTED		1	1	3	5	5	1.14
ABORTED							
ABORTED							
OTHER							

INFLIGHT

CLIMB TO CRUISE	3	1		1	5	5	1.14
NORMAL CRUISE	17	3	5	22	47	47	10.71
DESCENDING				6	6	6	1.37
HOLDING			1	1	2	2	.46
HOVERING			1		1	1	.23
POWER-ON DESCENT	1			1	2	2	.46
AUTOROTATIVE DESCENT							
ACROBATICS							

INJURY INDEX

<u>FIRST OPERATIONAL PHASE</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
BUZZING							
UNCONTROLLED DESCENT	7				7	7	1.59
EMERGENCY DESCENT							
LOW PASS	1	1	1		3	3	.68
OTHER	5		1		6	6	1.37
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	3	1	1		5	5	1.14
FINAL APPROACH	3	2	3	14	22	22	5.01
INITIAL APPROACH	2			2	4	4	.91
FINAL APPROACH	6	2		2	10	10	2.28
LEVEL OFF/TOUCHDOWN			5	99	104	104	23.69
ROLL			3	98	101	101	23.01
ROLL-ON/RUN-ON							
POWER-ON LANDING		1	5		6	6	1.37
POWER-OFF AUTOROTATIVE LANDIN							
GO-AROUND	2				2	2	.46
MISSED APPROACH	1				1	1	.23
OTHER			1		1	1	.23
UNKNOWN/NOT REPORTED	2				2	2	.46
RECORDS	59	16	25	339	439		
ACCIDENTS	59	16	25	339		439	
PERCENT	13.4	3.6	5.7	77.2			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST OPERATIONAL PHASE	AIRCRAFT DAMAGE				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
<u>STATIC</u>							
STARTING ENGINE/S	3				3	3	.68
IDLING ENGINE/S	5	2	1		8	8	1.82
ENGINE RUNUP	1				1	1	.23
IDLING ROTORS	1				1	1	.23
PARKED-ENGINES NOT OPERATING							
OTHER							
<u>TAXI</u>							
TO TAKEOFF	15				15	15	3.42
FROM LANDING	16		1		17	17	3.87
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	2	12			14	14	3.19
INITIAL CLIMB	10	25			35	35	7.97
VERTICAL	1	2			3	3	.68
RUNNING							
ABORTED		5			5	5	1.14
ABORTED							
ABORTED							
OTHER							
<u>INFLIGHT</u>							
CLIMB TO CRUISE	4	1			5	5	1.14
NORMAL CRUISE	21	25	1		47	47	10.71
DESCENDING		6			6	6	1.37
HOLDING		2			2	2	.46
HOVERING	1				1	1	.23
POWER-ON DESCENT	2				2	2	.46
AUTOROTATIVE DESCENT							
ACROBATICS							

FIRST
OPERATIONAL PHASE

AIRCRAFT DAMAGE

DESTROYED
SUBSTANTIAL
MINOR
NONE

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
BUZZING							
UNCONTROLLED DESCENT	7				7	7	1.59
EMERGENCY DESCENT							
LOW PASS	1	2			3	3	.68
OTHER	6				6	6	1.37
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	2	3			5	5	1.14
FINAL APPROACH	6	16			22	22	5.01
INITIAL APPROACH	2	2			4	4	.91
FINAL APPROACH	0	2			10	10	2.28
LEVEL OFF/TOUCHDOWN	3	101			104	104	23.69
ROLL	2	99			101	101	23.01
ROLL-ON/RUN-ON							
POWER-ON LANDING		6			6	6	1.37
POWER-OFF AUTOROTATIVE LANDIN							
GO-AROUND	2				2	2	.46
MISSED APPROACH	1				1	1	.23
OTHER		1			1	1	.23
UNKNOWN/NOT REPORTED	2				2	2	.46
RECORDS	84	350	3	2	439		
ACCIDENTS	84	350	3	2		439	
PERCENT	19.1	79.7	.7	.5			

ANALYTIC TABLE

FIRST TYPE OF ACCIDENT VS TYPE OF POWER
KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION
1964 - 1968

FIRST TYPE OF ACCIDENT	TYPE OF POWER						RECORDS	ACCIDENTS	PERCENT
	RECIPROCATING ENGINE	TURBOJET ENGINE	TURBOPROP ENGINE	TURBOPAN ENGINE	NONE (GLIDERS)	TURBOSHAFT ENGINE			
GROUND-WATER LOOP-SWERVE	36	1	3				40	40	9.11
DRAGGED WINGTIP, POO, OR FLOA		2					2	2	.46
WHEELS-UP LANDING	61	2	1				64	64	14.58
WHEELS-DOWN LANDING IN WATER	1						1	1	.23
GEAR COLLAPSED	22	2					24	24	5.47
GEAR RETRACTED	37	2		1			40	40	9.11
HARD LANDING	14	1	1				16	16	3.64
NOSE OVER/DOWN	4						4	4	.91
ROLL OVER	1						1	1	.23
OVERSHOOT	22	3	1				26	26	5.92
UNDERSHOOT	11	4	3				18	18	4.10
<u>COLLISION BETWEEN AIRCRAFT</u>									
BOTH IN FLIGHT		5					5	5	1.14
ONE AIRBORNE									
BOTH ON GROUND	3						3	3	.68
<u>COLLISION WITH GROUND/WATER</u>									
CONTROLLED	9						9	9	2.05
UNCONTROLLED	7	1	1				9	9	2.05
<u>COLLIDED WITH</u>									
WIRES/POLES	4						4	4	.91
TREES	7		1				8	8	1.82
RESIDENCE/S									
BUILDING/S									
FENCE, FENCEPOSTS	3			1			4	4	.91
ELECTRONIC TOWERS	1						1	1	.23
RUNWAY OR APPROACH LIGHTS									
AIRPORT HAZARD	2						2	2	.46
ANIMALS	1	2					3	3	.68
CROP									
FLAGMAN LOADER									
DITCHES	1	2	2				5	5	1.14
SNOWBANK	6		1				7	7	1.59
PARKED AIRCRAFT	3						3	3	.68
AUTOMOBILE	2						2	2	.46
DIRT BANK	2			1			3	3	.68

FIRST TYPE OF ACCIDENT	ENGINE TYPE					RECORDS	ACCIDENTS	PERCENT
	RECIPROCATING ENGINE	TURBOJET ENGINE	TURBOPROP ENGINE	TURBOPAN ENGINE	NONE (GLIDERS)			
OBJECT	10							
BIRD STRIKE	6	2				10	10	2.28
<u>STALL</u>	3					8	8	1.82
SPIN						3	3	.68
SPIRAL	2							
MUSH	6	1				2	2	.46
<u>FIRE OR EXPLOSION</u>						7	7	1.59
IN FLIGHT	6							
ON GROUND	7					6	6	1.37
<u>AIRFRAME FAILURE</u>						7	7	1.59
IN FLIGHT	6	1						
ON GROUND	1					7	7	1.59
ENGINE TEARAWAY	1					1	1	.23
ENGINE FAILURE OR MALFUNCTION	45	3	3		1	1	1	.23
<u>PROPELLER/ROTOR FAILURE</u>						52	52	11.85
PROPELLER	5							
TAIL ROTOR	6					5	5	1.14
MAIN ROTOR						6	6	1.37
PROPELLER/ROTOR ACCIDENT TO P	2	1						
JET INTAKE/EXHAUST ACCIDENT T						3	3	.68
PROPELLER/JET/ROTOR BLAST	1							
TURBULENCE	2	1				1	1	.23
HAIL DAMAGE TO AIRCRAFT						3	3	.68
LIGHTNING STRIKE								
EVASIVE MANEUVER	1							
UNCONTROLLED ALTITUDE DEVIATI						1	1	.23
DITCHING								
MISSING AIRCRAFT, NOT RECOVER	1							
MISCELLANEOUS/OTHER	8	1				1	1	.23
UNDETERMINED	2					9	9	2.05
						2	2	.46
RECORDS	386	27	22	2				
ACCIDENTS	386	27	22	2		439		
PERCENT	87.9	6.2	5.0	.5	.0		439	

ANALYTIC TABLE

AIRPORT PROXIMITY VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

PROXIMITY
TO
AIRPORT

FATAL
 SERIOUS
 MINOR
 NONE

	5	0	10	276	RECORDS	ACCIDENTS	PERCENT
ON AIRPORT					299	299	68.11
ON SEAPLANE BASE				2	2	2	.46
ON HELIPORT			1	3	4	4	.91
ON BARGE/SHIP/PLATFORM		1		2	3	3	.68
IN TRAFFIC PATTERN	10	1	3	8	22	22	5.01
WITHIN 1/4 MILE		1	1	4	6	6	1.37
WITHIN 1/2 MILE	2		3	2	7	7	1.59
WITHIN 3/4 MILE	2				2	2	.46
WITHIN 1 MILE	1			1	2	2	.46
WITHIN 2 MILES	5	1	1	2	9	9	2.05
WITHIN 3 MILES	4			2	6	6	1.37
WITHIN 4 MILES	1		1		2	2	.46
WITHIN 5 MILES	3			2	5	5	1.14
BEYOND 5 MILES	24	4	5	34	67	67	15.26
UNKNOWN/NOT REPORTED	2			1	3	3	.68
RECORDS	59	16	25	339	439		
ACCIDENTS	59	16	25	339		439	
PERCENT	13.4	3.6	5.7	77.2			

ANALYTIC TABLE

CONDITIONS OF LIGHT VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

CONDITIONS

OF
LIGHT

DAWN
 DAYLIGHT
 DUSK
 NIGHT (DARK)
 NIGHT (MOONLIGHT-BRIGHT)
 UNKNOWN/NOT REPORTED

AIRCRAFT DAMAGE

DESTROYED
 SUBSTANTIAL
 MINOR
 NONE
 UNKNOWN

CONDITIONS OF LIGHT	RECORDS	ACCIDENTS	PERCENT
DAWN	4	4	.91
DAYLIGHT	339	339	77.22
DUSK	19	19	4.33
NIGHT (DARK)	73	73	16.63
NIGHT (MOONLIGHT-BRIGHT)	2	2	.46
UNKNOWN/NOT REPORTED	2	2	.46

RECORDS	84	349	3	2	1	439
ACCIDENTS	84	349	3	2	1	439
PERCENT	19.1	79.5	.7	.5	.2	

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 439 TOTAL ACCIDENTS
INVOLVES 59 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	34	6	36	215	15	215	249	21	251
	57.63	10.17	61.02	56.58	3.95	56.58	56.72	4.78	57.18
PERSONNEL	5	1	6	60	3	63	65	4	69
	8.47	1.69	10.17	15.79	.79	16.58	14.81	.91	15.72
AIRFRAME	4		4	3	2	5	7	2	9
	6.78	.00	6.78	.79	.53	1.32	1.59	.46	2.05
LANDING GEAR	.00	.00	.00	74	11	85	74	11	85
	.00	.00	.00	19.47	2.89	22.37	16.86	2.51	19.36
POWERPLANT	5	5	10	37	3	40	42	3	45
	8.47	.00	8.47	9.74	.79	10.26	9.57	.68	10.02
SYSTEMS	1	1	2	12	3	15	13	3	16
	1.69	.00	1.69	3.16	.79	3.95	2.96	.68	3.64
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	2	2	.00	.00	.00	.00	2	2
	.00	3.39	3.39	.00	.00	.00	.00	.46	.46
ROTORCRAFT *	2	2	4	3	3	6	5	5	10
	3.39	.00	3.39	.79	.00	.79	1.14	.00	1.14
AIRPORTS/AIRWAYS/FACILITIES	.00	1	1	16	33	49	16	34	50
	.00	1.69	1.69	4.21	8.68	12.89	3.64	7.74	11.39
WEATHER	8	21	29	14	36	50	22	57	79
	13.56	35.59	49.15	3.68	9.47	12.89	5.01	12.98	17.77
TERRAIN	.00	2	2	7	7	14	7	9	16
	.00	3.39	3.39	1.84	1.84	3.68	1.59	2.05	3.64
MISCELLANEOUS	4	4	8	16	1	17	20	1	21
	6.78	.00	6.78	4.21	.26	4.47	4.56	.23	4.78
UNDETERMINED	8	8	16	9	9	18	17	17	34
	13.56	.00	13.56	2.37	.00	2.37	3.87	.00	3.87

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
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

INVOLVES 439 TOTAL ACCIDENTS
 INVOLVES 59 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT		3	3		1	1		4	4
BECAME LOST/DISORIENTED	2		2	1		1			3
CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS	9		9	1		1	3		10
CONTINUED INTO KNOWN AREA OF SEVERE TURBULENCE				1		1	1		1
DELAYED ACTION IN ABORTING TAKEOFF				2		2	2		2
DELAYED IN INITIATING GO-AROUND	1		1	1		1	2		2
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT	1		1	4		4	5	2	7
EXCEEDED DESIGN STRESS LIMITS OF AIRCRAFT	1		1				1		1
FAILED TO EXTEND LANDING GEAR				17		17	17		17
FAILED TO RETRACT LANDING GEAR				1		1	1		1
RETRACTED GEAR PREMATURELY	1		1	1		1	2		2
INADVERTENTLY RETRACTED GEAR				16		16	16		16
FAILED TO SEE AND AVOID OTHER AIRCRAFT	2		2	4		4	6		6
FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS	1		1	9		9	10		10
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	4		4	6		6	10		10
MISJUDGED, SPEED, ALTITUDE OR CLEARANCE				2		2	2		2
FAILED TO MAINTAIN ADEQUATE ROTOR RPM	1		1	3		3	4		4
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT				3		3	3		3
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC	1		1	1	2	3	2	2	4
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS	4		4	11	1	12	15	1	16
IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS				7	1	8	7	1	8
IMPROPER OPERATION OF FLIGHT CONTROLS				9	1	10	9	1	10
PREMATURE LIFT OFF				2		2	2		2
IMPROPER LEVEL OFF				13		13	13		13
IMPROPER IFR OPERATION	7		7	4		4	11		11
IMPROPER IN-FLIGHT DECISIONS OR PLANNING	2		2	3		3	5		5
IMPROPER COMPENSATION FOR WIND CONDITIONS									
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING	5		5	16	1	17	21	1	22
INADEQUATE SUPERVISION OF FLIGHT	1		1	4		4	5		5
LACK OF FAMILIARITY WITH AIRCRAFT		1	1		3	3		4	4
MISMANAGEMENT OF FUEL	3		3	1		1	4		4
EXERCISED POOR JUDGMENT	2		2	8		8	10		10
OPERATED CARELESSLY				2		2	2		2
SELECTED UNSUITABLE TERRAIN				13		13	13		13
FAILED TO ASSURE THE GEAR WAS DOWN AND LOCKED				17		17	17		17
SPONTANEOUS-IMPROPER ACTION	1		1	2		2	3		3
MISJUDGED DISTANCE, SPEED, AND ALTITUDE				3		3	3		3
MISJUDGED DISTANCE AND SPEED				10		10	10		10
MISJUDGED DISTANCE	1		1	2		2	3		3
MISJUDGED DISTANCE AND ALTITUDE	1		1	7		7	8		8
MISJUDGED SPEED AND ALTITUDE				1		1	1		1
MISJUDGED SPEED				1		1	1		1
MISJUDGED ALTITUDE				2		2	2		2
MISJUDGED CLEARANCE				3		3	3		3
IMPROPER RECOVERY FROM BOUNCED LANDING				1		1	1		1
INCAPACITATION									
PHYSICAL IMPAIRMENT		1	1					1	1
SPATIAL DISORIENTATION				1		1	1		1
MISUSED OR FAILED TO USE FLAPS	1		1	1		1	2		2
FAILED TO MAINTAIN DIRECTIONAL CONTROL					1	1		1	1
SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND				11		11	11		11
FAILED TO ABORT TAKEOFF	1	1	1	2	1	3	2	2	4
FAILED TO INITIATE GO-AROUND				1		1	1		1
DIRECT ENTRIES	2		2	10	1	11	10	1	11
				1		1	3		3
SUBTOTAL	55	6	61	249	16	265	304	22	326
COPILLOT									
INADVERTENTLY RETRACTED GEAR				2		2	2		2
FAILED TO OBTAIN/MAINTAIN FLYING SPEED				1		1	1		1

CAUSE/FACTOR TABLE

COPLOT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
IMPROPER OPERATION OF FLIGHT CONTROLS				1		1	1		1
IMPROPER LEVEL OFF				1		1	1		1
IMPROPER COMPENSATION FOR WIND CONDITIONS				1		1	1		1
LACK OF FAMILIARITY WITH AIRCRAFT				1		1	1		1
MISMANAGEMENT OF FUEL	1		1				1		1
OPERATED CARELESSLY				2		2	2		2
SPONTANEOUS-IMPROPER ACTION				1		1	1		1
MISJUDGED DISTANCE AND ALTITUDE				2		2	2		2
SUBTOTAL	1		1	12		12	13		13
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
IMPROPER MAINTENANCE(MAINTENANCE PERSONNEL)				14		14	14		14
IMPROPERLY SERVICED AIRCRAFT(GROUND CREW)				5		5	5		5
INADEQUATE INSPECTION OF AIRCRAFT(MAINTENANCE PERSONNEL)				11		11	11		11
INADEQUATE MAINTENANCE AND INSPECTION	1		1	10	3	21	19	3	22
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
INCORRECT WEATHER FORECAST		1	1	1		1	1	1	2
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
FAILURE TO NOTIFY OF UNSAFE CONDITION				3		3	3		3
IMPROPER/INADEQUATE SNOW REMOVAL				4		4	4		4
IMPROPER INSPECTION OF FACILITIES				1		1	1		1
AIRWAYS FACILITIES PERSONNEL									
FAILURE TO ISSUE NOTAM				1		1	1		1
PRODUCTION-DESIGN									
SUBSTANDARD QUALITY CONTROL	1		1				1		1
INCORRECT FACTORY INSTALLATION				1		1	1		1
POOR/INADEQUATE DESIGN				2		2	2		2
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT	2		2	4		4	6		6
GROUND SIGNALMAN				2		2	2		2
PASSENGER	1		1	1		1	2		2
DRIVER OF VEHICLE				2		2	2		2
DIRECT ENTRIES				3		3	3		3
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	5	1	6	73	3	76	70	4	82
** AIRFRAME **									
WINGS									
SPARS	3		3		1	1	3	1	4
OTHER	1		1				1		1
FUSELAGE									
DOORS, DOOR FRAMES				1		1	1		1
WHEEL WELL DOORS				1	1	2	1	1	2
LANDING GEAR									
MAIN GEAR-SHOCK ABSORBING ASSY, STRUTS, ATTACHMENTS, ETC				2		2	2		2
NORMAL RETRACTION/EXTENSION ASSEMBLY				27	3	30	27	3	30
EMERGENCY/EXTENSION ASSEMBLY				9		9	9		9
TAILWHEEL ASSEMBLIES				4	1	5	4	1	5
NOSEWHEEL ASSEMBLIES				17	1	18	17	1	18
WHEELS, TIRES, AXLES				5		5	5		5
SKID ASSEMBLY					1	1		1	1
BRAKING SYSTEM (NORMAL)				7		7	7		7
LANDING GEAR WARNING AND INDICATING COMPONENTS				1	5	6	1	5	6
GEAR LOCKING MECHANISM				10		10	10		10
SWITCHES, LEVERS, CRANKING MECHANISM, ETC				5		5	5		5
NOSEWHEEL STEERING				1		1	1		1
OTHER				1		1	1		1
DIRECT ENTRIES				7	1	7	7	1	7
FLIGHT CONTROL SURFACES									
RUDDER, SURFACES ATTACHMENTS				1		1	1		1

AIRFRAME (CONTINUED)

CAUSE/FACTOR TABLE

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
SUBTOTAL									
** POWERPLANT **	4		4	98	14	112	102	14	116
ENGINE STRUCTURE									
CRANKSHAFT									
CYLINDER ASSEMBLY				2		2	2		2
PISTON, PISTON RINGS				1		1	1		1
MOUNT AND VIBRATION ISOLATORS				2		2	2		2
IGNITION SYSTEM					1	1		1	1
FUEL SYSTEM									
TANKS									
LINES AND FITTINGS				1		1	1		1
SELECTOR VALVES				8		8	8		8
PUMPS	1		1						
VENTS, DRAINS, TANK CAPS				1		1	1		1
LUBRICATING SYSTEM				2	1	3	2	1	3
LINES, HOSES, FITTINGS									
SEALS AND GASKETS				2		2	2		2
COOLING SYSTEM				1		1	1		1
PROPELLER AND ACCESSORIES									
BLADES									
HUBS	1		1	3		3	4		4
BLADE RETENTION MECHANISM				1		1	1		1
EXHAUST SYSTEM				1		1	1		1
MANIFOLDS									
STACKS				1		1	1		1
ENGINE ACCESSORIES				1		1	1		1
VACUUM PUMPS				1		1	1		1
ENGINE CONTROLS-COCKPIT	1		1				1		1
POWERPLANT-INSTRUMENTS									
FUEL QUANTITY GAUGE									
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS					1	1		1	1
COMPRESSOR STALLS	2		2	6		6	8		8
DIRECT ENTRIES				1		1	1		1
REDUCTION GEAR ASSEMBLY	1		1	2		2	3		3
GEARS, ACCESSORY DRIVE									
COMPRESSOR ASSEMBLY				1		1	1		1
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSE									
PROPELLER SYSTEM									
GOVERNOR									
CONSTANT SPEED DRIVE				1		1	1		1
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL									
** SYSTEMS **	6		6	38	3	41	44	3	47
ELECTRICAL SYSTEM									
RELAYS AND WIRING									
MOTORS				2		2	2		2
HYDRAULIC SYSTEM				1		1	1		1
HYDRAULIC PUMPS									
RESERVOIR, LINES, FITTINGS				1		1	1		1
RELIEF VALVE				4	1	5	4	1	5
BY-PASS VALVE				1		1	1		1
OTHER				1		1	1		1
FLIGHT CONTROL SYSTEMS				1	1	2	1	1	2

CAUSE/FACTOR TABLE

SYSTEMS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
ANTI-ICING, DE-ICING SYSTEMS									
AIR CONDITION, HEATING AND PRESSURIZATION									
OTHER				1		1	1		1
AUTO PILOT									
SERVO					1	1		1	1
FIRE WARNING SYSTEM									
FIRE EXTINGUISHER SYSTEM									
OXYGEN SYSTEM									
OTHER SYSTEMS									
DIRECT ENTRIES	1		1				1		1
SUBTOTAL	1		1	12	3	15	13	3	16
** INSTRUMENTS/EQUIPMENT AND ACCESSORIES **									
FLIGHT AND NAVIGATION INSTRUMENTS									
DIRECTIONAL GYRO		1	1				1		1
COMMUNICATIONS AND NAVIGATION EQUIPMENT									
ILS RECEIVERS		1	1				1		1
MISCELLANEOUS EQUIPMENT									
SUBTOTAL		2	2				2		2
** ROTORCRAFT **									
ROTOR ASSEMBLIES									
TAIL ROTOR BLADES	1		1				1		1
TRANSMISSION ROTOR DRIVE SYSTEM									
TAIL ROTOR DRIVE SHAFT ASSEMBLY				1		1	1		1
TAIL ROTOR GEAR BOX	1		1				1		1
CLUTCH ASSEMBLY				1		1	1		1
FLIGHT CONTROL SYSTEMS									
MISCELLANEOUS UNITS AND ASSEMBLIES									
TAIL BOOMS/PYLONS/CONES				1		1	1		1
DIRECT ENTRIES				1		1	1		1
SUBTOTAL	2		2	4		4	6		6
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									
AIRPORT CONDITIONS									
WET RUNWAY				3	8	11	3	8	11
ICE/SLUSH ON RUNWAY		1	1	2	7	9	2	8	10
SNOW ON RUNWAY				4	10	14	4	10	14
SNOW WINDROWS				2		2	2		2
UNMARKED OBSTRUCTIONS				2	1	3	2	1	3
SOFT SHOULDERS (RUNWAY)					1	1		1	1
HIDDEN HAZARD				2	1	3	2	1	3
POORLY MAINTAINED RUNWAY SURFACE					1	1		1	1
SOFT RUNWAY				1		1	1		1
ICE/SLUSH ON RAMP/TAXIWAY					1	1		1	1
SNOW ON RAMP/TAXIWAY					1	1		1	1
SOFT SHOULDERS (RAMP/TAXIWAY)					1	1		1	1
POORLY MAINTAINED RAMP/TAXIWAY SURFACE				1		1	1		1
OTHER				2	5	7	2	5	7
AIRWAYS FACILITIES									
SUBTOTAL	1		1	19	37	56	19	38	57
** WEATHER **									
LOW CEILING	2	15	17	1	8	9	3	23	26
RAIN		7	7	2	4	6	2	11	13
FOG	3	11	14	1	4	5	4	15	19
SNOW	1	2	3	1	4	5	2	6	8
ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC	2	5	7	2	2	4	4	7	11
CONDITIONS CONDUCIVE TO CARB/INDUCTION SYSTEM ICING	2	2	4	2	2	4	4	4	8
UNFAVORABLE WIND CONDITIONS	1		1	5	12	17	6	12	18
SUDDEN WINDSHIFT					1	1		1	1
TURBULENCE, ASSOCIATED W/CLOUDS, THUNDERSTORMS	1	2	3				1	2	3
DOWNDRAFTS, UPDRAFTS		2	2	1	3	4	1	5	6

CAUSE/FACTOR TABLE

WEATHER (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
OBSTRUCTIONS TO VISION									
HIGH DENSITY ALTITUDE				1	3	4	1	3	4
THUNDERSTORM ACTIVITY				1	2	3	1	2	3
OTHER		2	2	1	2	3	1	4	5
					1	1		1	1
SUBTOTAL	12	48	60	18	48	66	30	96	126
** TERRAIN **									
WET, SOFT GROUND									
SNOW-COVERED				2	3	5	2	3	5
HIDDEN OBSTRUCTIONS					1	1		1	1
ROUGH/UNEVEN				1		1	1		1
GLASSY WATER	1	1	1	2	1	3	2	2	4
HIGH OBSTRUCTIONS				1		1	1		1
OTHER	1	1	1	1	1	2	1	2	3
					1	1		1	1
SUBTOTAL	2	2	2	7	7	14	7	9	16
** MISCELLANEOUS **									
BIRD COLLISION	1	1	1	7		7	8		8
VORTEX TURBULENCE	1	1	1	2		2	3		3
EVASIVE MANEUVER TO AVOID COLLISION				1		1	1		1
FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS				1	1	2	1	1	2
UNDETERMINED	8	8	8	9		9	17		17
DIRECT ENTRIES	2	2	2	5		5	7		7
SUBTOTAL	12		12	25	1	26	37	1	38
GRAND TOTAL	98	60	158	555	132	687	653	192	845
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP-IMPROPER OPER. OF/FAILED TO USE	3		3	4		4	7		7
CHECKLIST-FAILED TO USE				1	9	10	1	9	10
DISREGARD OF GOOD OPERATING PRACTICE	1		1	1		1	1		2
IMPROPER EMERGENCY PROCEDURES	2	1	3	4	3	7	4	4	10
FEATHERED WRONG ENGINE				1		1	1		1
GUST LOCKS ENGAGED				1		1	1		1
INSTRUMENTS-MISREAD OR FAILED TO READ				1		1	1		1
NOT ALLIGNED WITH RUNWAY/INTENDED LANDING AREA				3	1	4	3	1	4
INATTENTIVE TO FUEL SUPPLY				1		1	4		4
POORLY PLANNED APPROACH	3		3	1		1	2	1	3
MISCALCULATED FUEL CONSUMPTION				2	1	3	2		3
JETTISONED LOAD				1		1	1		1
LANDED ON FOAMED RUNWAY				1		1	1		1
IMPROPERLY SECURED					7	7		7	7
EXPLOSIVE DECOMPRESSION				3		3	3		3
FATIGUE FRACTURE					1	1		1	1
HYDRAULIC FAILURE	5		5	16		16	21		21
WINDSHIELD, DIRTY, FOGGY, ETC-RESTRICTED VISION				1		1	1		1
WRONG PART				2	1	3	2	1	3
IMPROPER ALIGNMENT/ADJUSTMENT				1		1	1		1
FAILURE OF TWO OR MORE ENGINES				6		6	6		6
SEPARATION IN FLIGHT	1	4	5	2	5	7	3	9	12
FIRE IN CABIN/ COCKPIT/ BAGGAGE COMPARTMENT		5	5	2	4	6	2	9	11
FIRE IN ENGINE				1	2	3	1	2	3
FIRE IN BRAKES/ WHEEL ASSEMBLY/ WHEEL WELL		1	1	5	3	8	5	4	9
ASYMMETRICAL FLAPS				1		1	1		1
CORRODED/CORROSION				1	1	2		1	2
CONGESTED TRAFFIC-PATTERN				1		1	1		1
FUEL EXHAUSTION					2	2		2	2
ICE-ENGINE				6		6	6		6
ICE-CARBURETOR	1		1	2		2	3		3
AIRFRAME ICE	1		1	3		3	4		4
ICE-WINDSHIELD	1		1	3		3	3		4
WHITEOUT				3		3	3		3
SUNGLARE				1		1	1		1
SIMULATED CONDITIONS	1		1	1		1	1		1

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
WATER IN FUEL				2	7	2	2		2
AIRCRAFT CAME TO REST IN WATER		8	8					15	15
MISSING				2	2	4	2	2	4
HYDROPLANING ON WET RUNWAY				5	1	6	5	1	6
OVERLOAD FAILURE	1		1	3	49	52	4	49	53
MATERIAL FAILURE	1	1	2	41	4	45	42	5	47
FUEL STARVATION	4		4	2		2	6		6
IMPROPER CLEARANCE-TOLERANCE				1	1	2	1	1	2
FUEL SELECTOR POSITIONED BETWEEN TANKS	1		1				1		1
UNAPPROVED MODIFICATION				1		1	1		1
IMPROPER/INADEQUATE VENTING				1		1	1		1
PREVIOUS DAMAGE				5	3	8	5	3	8
LEAK/LEAKAGE				4	2	6	4	2	6
LOW FLUID LEVEL					1	1		1	1
CIRCUIT BREAKER POPPED					3	3		3	3
RUNWAY CLOSED					2	2		2	2
DOWNWIND		1	1		8	8		9	9
OVER TORQUED				1		1			1
LOOSE, PART/FITTING				2	1	3	2	1	3
BENT				1		1	1		1
BINDING					1	1		1	1
BURST				1		1		1	1
BURNED				2		2	2		2
CHAPPED				1		1	1		1
CROSSED				1		1	1		1
DETERIORATED					2	2		2	2
DISCONNECTED				1	1	2	1	1	2
ERRATIC		1	1		1	1		2	2
IMPROPERLY INSTALLED	1		1	4		4	5		5
JAMMED	1		1	4	1	5	5	1	6
PRESSURE, NONE				2		2	2		2
VIBRATION, EXCESSIVE				1	2	3	1	2	3
INTENTIONAL WHEELS UP				1		1	1		1

DIRECT ENTRY CAUSES

PILOT-FLEW AT ALTITUDE BELOW OBSTRUCTING TERRAIN.
 MISC-TAIL ROTOR STRUCK BY UNSECURED OBJECT IN FLIGHT
 MISC-LOSS OF INSTRUMENTS IN IFR-CAUSE UNKNOWN
 PERSONNEL-PAX INADVERTENTLY RELEASED EMERG EXIT.
 PERSONNEL-BLAST FROM 8707 BLEW GRAVEL INTO ACFT.
 PERSONNEL-PAX INADVERTENTLY RETRACTED GEAR.
 LDG GR-NO PROVISION FOR LUBRICATION OF TUBES.
 LDG GR-MALFUCTION OF ANTI-RETRACT SYS-REASON UNDETERM
 PILOT-ENTERED AREA OF KNOWN ICING CONDITIONS.
 PILOT-FAILURE TO SEE ENG.FIRE LITE DELAYD EMGCT ACT
 SYSTEMS-EXCESSIVE NOSE DOWN ELE TRIM-CAUSE UNK.
 MISC-LOOSE CABLE ON GROUND PICKED UP BY PROPELLER.
 LDG GR-RIGHT GR LOOSE AT TRUNION,JAMMED IN WHL WEL
 LDG GR-NOSE GR STRUT DID NOT EXTND REASON UNDETRMD
 PMR PLT-ENGINES WOULDNT AIRSTART.REASON IS UNKNOWN
 PMR PLT-RIGHT EMG. AIR FILTER BOX BLOCKED BY SNOW.
 LDG GR-RETRACTED FOR UNDETERMINED REASON
 MISC-PASSENGER INADVERTENTLY RELEASED ESCAPE HATCH
 MISC-ANTELOPE RAN ONTO RUNWAY.
 LDG GR-RETRACTED FOR UNDETERMINED REASON.
 PMR PLT-SEPARATION IN FLIGHT-CAUSE UNDETERMINED.
 MISC-DOGS CHASED DEER ACROSS RUNWAY.
 MISC-DEER CROSSED RUNWAY WHEN PILOT LANDED.
 ROTORCFT-INTERMEDIATE DRIVE SHAFT RIVETS SMEARED.
 LDG GR-NOSE GR SHIMMY DAMPER JAMMED,FAILED NOSE GR

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

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION
1964

INVOLVES 82 TOTAL ACCIDENTS
INVOLVES 14 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS		NONFATAL ACCIDENTS		ALL ACCIDENTS	
	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*
PILOT						
PERSONNEL	7 50.00	.00	35 51.47	6 8.82	42 51.22	6 7.32
AIRFRAME	.00	.00	20 29.41	.00	20 24.39	20 24.39
LANDING GEAR	1 7.14	.00	1 1.47	1 1.47	2 2.44	1 1.22
POWERPLANT	.00	.00	9 13.24	2 2.94	11 16.18	2 2.44
SYSTEMS	.00	.00	5 7.35	1 1.47	6 8.82	5 6.10
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	5 7.35	.00	5 7.35	5 6.10
AIRCRAFT	.00	.00	.00	.00	.00	.00
AIRPORTS/AIRWAYS/FACILITIES	1 7.14	.00	1 1.47	.00	2 2.44	1 1.22
WEATHER	.00	.00	8 11.76	2 2.94	10 14.71	2 2.44
TERRAIN	1 7.14	.00	7 10.29	3 4.41	10 13.24	8 11.76
MISCELLANEOUS	.00	.00	3 4.41	.00	3 4.41	3 4.41
UNDETERMINED	2 14.29	.00	1 1.47	1 1.47	3 4.41	3 4.41
	2 14.29	.00	1 1.47	1 1.47	3 4.41	3 4.41

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

KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION

1965

INVOLVES 62 TOTAL ACCIDENTS
INVOLVES 7 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	2	1	3	27	2	27	29	3	30
	28.57	14.29	42.86	49.09	3.64	49.09	46.77	4.84	48.39
PERSONNEL	.00	.00	.00	7	.00	7	7	.00	7
	.00	.00	.00	12.73	.00	12.73	11.29	.00	11.29
AIRFRAME	.00	.00	.00	1	.00	1	1	.00	1
	.00	.00	.00	1.82	.00	1.82	1.61	.00	1.61
LANDING GEAR	.00	.00	.00	15	.00	15	15	.00	15
	.00	.00	.00	27.27	.00	27.27	24.19	.00	24.19
POWERPLANT	1	.00	1	6	.00	6	7	.00	7
	14.29	.00	14.29	10.91	.00	10.91	11.29	.00	11.29
SYSTEMS	1	.00	1	3	.00	3	4	.00	4
	14.29	.00	14.29	5.45	.00	5.45	6.45	.00	6.45
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	.00	.00	.00	.00	.00	.00	.00
ROTORCRAFT	.00	.00	.00	.00	.00	.00	.00	.00	.00
AIRPORTS/AIRWAYS/FACILITIES	.00	.00	.00	1	4	5	1	4	5
	.00	.00	.00	1.82	7.27	9.09	1.61	6.45	8.06
WEATHER	1	3	4	1	3	4	2	6	8
	14.29	42.86	57.14	1.82	5.45	7.27	3.23	9.68	12.90
TERRAIN	.00	.00	.00	.00	1	1	.00	1	1
	.00	.00	.00	.00	1.82	1.82	.00	1.61	1.61
MISCELLANEOUS	1	.00	1	2	.00	2	3	.00	3
	14.29	.00	14.29	3.64	.00	3.64	4.84	.00	4.84
UNDETERMINED	2	.00	2	2	.00	2	4	.00	4
	28.57	.00	28.57	3.64	.00	3.64	6.45	.00	6.45

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

KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION

1967

INVOLVES 105 TOTAL ACCIDENTS
INVOLVES 14 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS		NONFATAL ACCIDENTS		ALL ACCIDENTS	
	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*
PILOT	9	.00	51	1	60	1
	64.29	64.29	56.04	1.10	57.14	.95
PERSONNEL	1	2	12	1	13	2
	7.14	14.29	13.19	1.10	14.29	1.90
AIRFRAME	2	2	1	1	3	1
	14.29	14.29	1.10	1.10	2.20	.95
LANDING GEAR	.00	.00	20	3	23	3
	.00	.00	21.98	3.30	25.27	2.86
POWERPLANT	3	3	9	.00	12	.00
	21.43	21.43	9.89	.00	11.43	.00
SYSTEMS	.00	.00	3	1	4	1
	.00	.00	3.30	1.10	4.40	.95
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	.00	.00	.00	.00
ROTORCRAFT	.00	.00	3	.00	3	.00
	.00	.00	3.30	.00	3.30	.00
AIRPORTS/AIRWAYS/FACILITIES	.00	.00	2	10	12	10
	.00	.00	2.20	10.99	13.19	9.52
WEATHER	2	5	.00	14	16	19
	14.29	35.71	.00	15.38	15.38	18.10
TERRAIN	.00	.00	2	4	6	4
	.00	.00	2.20	4.40	6.59	3.81
MISCELLANEOUS	.00	.00	4	.00	4	.00
	.00	.00	4.40	.00	4.40	.00
UNDETERMINED	2	2	4	.00	6	6
	14.29	14.29	4.40	.00	4.40	.00

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

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CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION

1968

INVOLVES 93 TOTAL ACCIDENTS
INVOLVES 18 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS		NONFATAL ACCIDENTS		ALL ACCIDENTS	
	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*
PILOT	14 77.78	5 27.78	15 83.33	52 69.33	4 5.33	52 69.33
PERSONNEL	3 16.67	.00	3 16.67	10 13.33	2 2.67	12 16.00
AIRFRAME	1 5.56	.00	1 5.56	.00	.00	.00
LANDING GEAR	.00	.00	.00	13 17.33	4 5.33	17 22.67
POWERPLANT	.00	.00	.00	7 9.33	1 1.33	8 10.67
SYSTEMS	.00	.00	.00	.00	2 2.67	2 2.67
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	11.11	2 11.11	.00	.00	2 2.15
ROTORCRAFT	.00	.00	.00	.00	.00	.00
AIRPORTS/AIRWAYS/FACILITIES	.00	5.56	1 5.56	.00	7 9.33	8 10.60
WEATHER	4 22.22	5 27.78	9 50.00	4 5.33	6 10.67	12 16.00
TERRAIN	.00	11.11	2 11.11	1 1.33	1 1.33	2 2.67
MISCELLANEOUS	1 5.56	.00	1 5.56	2 2.67	.00	2 2.67
UNDETERMINED	1 5.56	.00	1 5.56	1 1.33	1 1.33	2 2.15

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

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INJURIES, ACCIDENTS
CORPORATE/EXECUTIVE
U. S. GENERAL AVIATION
1964 - 1968

	INJURIES				TOTAL
	FATAL	SERIOUS	MINOR	NONE	
PILOT	53	14	19	353	439
COPILOT	14	3	4	105	126
DUAL STUDENT			1		1
CHECK PILOT					
FLIGHT ENGINEER				1	1
NAVIGATOR	1				1
CABIN ATTENDANT					
EXTRA CREW			1	7	8
PASSENGERS	96	30	44	820	990
TOTAL	164	47	69	1286	1566
* OTHER AIRCRAFT	5			10	15
OTHER GROUND	1	2	4	1	8
GRAND TOTAL	170	49	73	1297	1589

INVOLVES 439 TOTAL ACCIDENTS
INVOLVES 59 FATAL ACCIDENTS

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

ANALYTIC TABLE
 PILOT RATING VS PILOT CERTIFICATE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 U. S. GENERAL AVIATION
 1964 - 1968

PILOT RATING					RECORDS	ACCIDENTS	PERCENT
	COMMERCIAL	ADULTRE TRANSPORT	COMMERCIAL- FLIGHT INSTRUCTOR	ADULTRE TRANSPORT- FLIGHT INSTRUCTOR			
ASEL	5				5	5	1.14
AMEL		2			2	2	.46
ASES							
AMES							
ASEL INSTRUMENT	2		2		4	4	.91
AMEL INSTRUMENT	6	9	2		17	17	3.87
ASES INSTRUMENT							
AMES INSTRUMENT							
ASELS	2				2	2	.46
AMELS							
ASELS INSTRUMENT			1		1	1	.23
AMEL	10	8	5	1	24	24	5.47
ASHES							
ASHEL INSTRUMENT	82	60	88	44	274	274	62.41
ASHES INSTRUMENT							
ASHELS	1	2	2	1	6	6	1.37
ASHELS INSTRUMENT	20	11	21	18	70	70	15.95
ROTORCRAFT	14	2	13		29	29	6.61
ROTORCRAFT INSTRUMENT	1		1		2	2	.46
GLIDER							
LIGHTER THAN AIR	1				1	1	.23
NONE							
UNKNOWN/NOT REPORTED							
OTHER		1		1	2	2	.46
RECORDS	144	95	135	65	439		
ACCIDENTS	144	95	135	65		439	
PERCENT	32.8	21.6	30.8	14.8			

ACCIDENT LISTING
 CORPORATE/EXECUTIVE FLYING
 TURBINE POWERED AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

2	0475N505C	061664 CHARLOTTE NC	LOCKHEED-GA1329	N
2	0805N505W	121564 FRANKLIN PA	VICKERS VI745D	N
2	1030N34C	022764 TALLAHASSEE FLA	GRUMMAN G-159	N
2	0026N168H	021865 WASHINGTON DC	NO AMERICAN265A	N
2	0510N2010	052665 EL DORADO ARK	GRUMAN G-159	N
2	0835N74858	102965 TALLAHASSEE,FLA.	CONVAIR 2400	N
2	0111N95B	021966 W.PALM BEACH FLA	AERO COMDR 1121	N
2	0190N1135K	022466 DES MOINES IOWA	HAWKER-SDLYDH-125	C
2	0736N926G	081566 PADUCAH KY	HAWKER-SDLYDH-125	N
2	0861N355MJ	112366 EVANSVILLE IND	N.AMERICAN 265-40	N
2	0910N529N	031166NGREEN CASTLE MO	BEECH 65-90	F
2	0931N363G	102066 PITTSFIELD MASS	GRUMMAN G-159	N
2	0954N324Y	091966NMORGAN CITY LA	SIKORSKY S-62A	C
2	1066N908LN	122866 RICHMOND VA	GRUMMAN G-159	N
2	1078N360J	110566 CHICAGO ILL	N.AMERICAN NA-265	N
3	0793N332PC	040466 MARFA TEX	LEAR 23	N
3	1399N316M	031866 CHICAGO ILL	LEAR 23	M
3	1773N332PC	072966 MANTED NC	LEAR JET 23	N
3	2328N252R	082366 MORRISTOWN NJ	AERO CMDR 1121	N
3	2580N242WT	101066 NEW ORLEANS LA	LEAR JET 23	N
3	3093N20S	072566 IMPERIAL CALIF	LEAR JET 23	N
3	3532N416LJ	121266 LAS VEGAS NEV	LEAR JET 23	N
2	0050N77D	020267 WEST MIFFLIN,PA	HAWKER-SDLYDH125	N
2	0145N7004	041167 FLUSHING NY	GRUMMAN G-159	N
2	0183N129GP	041667 ENDICOTT,NY	BEECH 65-A90	F
2	0388N205M	072567 NEW CUMBERLAND,PAG	GRUMMAN G-159	N

ACCIDENT LISTING
CORPORATE/EXECUTIVE FLYING
TURBINE POWERED AIRCRAFT
U. S. GENERAL AVIATION
1964 - 1968

2 0436N600R	041467 ROSEMONT, ILL	N.AMERICAN NA-260	N
2 0624N739R	051467NVENTURA, CALIF	N.AMERICAN NA-265	F
2 0937N809F	110767 WASHINGTON, DC	SUDAVIATIONDA20	N
3 0040N400V	010567 EL PASO, TEX	BEECH 65-A90	N
3 0140N703WC	012467 JEFFERSON, OHIO	BEECH 65-A90	N
3 2192N827T	041267 ALCOVA, WYO	BEECH 65-90	N
3 3310N1153S	091067 MONTAUK POINT, NY	BEECH 65-90	N
3 3346N1966W	090667 WHEELING, ILL	LEAR JET 23	N
3 3394N21X	092167 WALNUT RIDGE, ARK	BEECH E18S	M
3 4650N772K	121267 IOWA CITY, IOWA	BEECH 65-A90	M
3 4754N825LJ	103167 HUNTSVILLE, ALA	LEAR JET 23	N
3 0160N800Q	012668 FRANKFORT, MICH	BEECH 65-A90	N
3 0775N1846	031368 PARKERSBURG, W VA	M. DESSAULT FALCON	F
3 1611N895K	062468 CHICAGO, ILL	BEECH 65-90	F
3 2173N186X	061968 CANTIL, CALIF	CANADAIR MK VI	N
3 2243N196KC	070168 FAYETTEVILLE, ARK	AERO COMDR 1121	F
3 2434N388R	072368 LITTLE ROCK, CALIF	LEAR JET 24A	N
3 2445N2009	090668 AVOCA, PA	N.AMERICAN NA-265	N
3 3841N900JL	120568 WATERTOWN, NY	AERO COMDR 1121	N
3 3856N414GN	111768 HOUGHTON, MICH	BEECH 890	N
3 3984N3032	121968 BUFFALO, NY	AERO COMDR 1121AC	N
3 4391N696MR	111268 LONG BEACH, CALIF	BELL 206A	N
3 4630N3550X	122168NSPRINGFIELD, MO	MITSUBISHI MU-2B	F
3 4632N148E	091368 N HOLLYWOOD, CALIF	AERO COMDR 1121A	F
3 4640N27W	050468NBRUNI, TEX	FAIRCHILD F-27J	F
3 4865N700M	123168 LINCOLN, NEBR	HAWKER-SDLYDH 125	N
3 4918N7610U	082768 MINNEAPOLIS, MINN	AERO COMDR 680T	N

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 TURBINE POWERED AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
GROUND-WATER LOOP-SWERVE			4		4	4	7.55
DRAGGED WINGTIP, POD, OR FLOA			2		2	2	3.77
WHEELS-UP LANDING			3		3	3	5.66
WHEELS-DOWN LANDING IN WATER							
GEAR COLLAPSED			2		2	2	3.77
GEAR RETRACTED			3		3	3	5.66
HARD LANDING			2		2	2	3.77
NOSE OVER/DOWN							
ROLL OVER							
OVERSHOOT			4		4	4	7.55
UNDERSHOOT			7		7	7	13.21
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT							
ONE AIRBORNE							
BOTH ON GROUND							
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED							
UNCONTROLLED	2				2	2	3.77
<u>COLLIDED WITH</u>							
WIRES/POLES							
TREES	1				1	1	1.89
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS			1		1	1	1.89
ELECTRONIC TOWERS							
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD							
ANIMALS			2		2	2	3.77
CROP							
FLAGMAN LOADER							
DITCHES	1		3		4	4	7.55
SNOWBANK			1		1	1	1.89
PARKED AIRCRAFT							
AUTOMOBILE							

INJURY INDEX

<u>FIRST TYPE OF ACCIDENT</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
DIRT BANK	1				1	1	1.89
OBJECT							
BIRD STRIKE		1	1		2	2	3.77
STALL							
SPIN							
SPIRAL							
MUSH	1				1	1	1.89
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT							
ON GROUND							
<u>AIRFRAME FAILURE</u>							
IN FLIGHT		1			1	1	1.89
ON GROUND							
ENGINE TEARAWAY							
ENGINE FAILURE OR MALFUNCTION	2	1	1	3	7	7	13.21
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER							
TAIL ROTOR							
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P	1				1	1	1.89
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE	1				1	1	1.89
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEOUS/OTHER			1		1	1	1.89
UNDETERMINED							
RECORDS	9	2	3	39	53		
ACCIDENTS	9	2	3	39		53	
PERCENT	17.0	3.8	5.7	73.6			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 TURBINE POWERED AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
<u>STATIC</u>							
STARTING ENGINE/S							
IDLING ENGINE/S	1				1	1	1.89
ENGINE RUNUP							
IDLING ROTORS							
PARKED-ENGINES NOT OPERATING							
OTHER							
<u>TAXI</u>							
TO TAKEOFF			1		1	1	1.89
FROM LANDING			1		1	1	1.89
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			2		2	2	3.77
INITIAL CLIMB			1		1	1	1.89
VERTICAL							
RUNNING							
ABORTED		1			1	1	1.89
ABORTED							
ABORTED							
OTHER							
<u>INFLIGHT</u>							
CLIMB TO CRUISE							
NORMAL CRUISE	3	1	2	1	7	7	13.21
DESCENDING				1	1	1	1.89
HOLDING			1		1	1	1.89
HOVERING							
POWER-ON DESCENT							
AUTOROTATIVE DESCENT							

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	2				2	2	3.77
EMERGENCY DESCENT							
LOW PASS							
OTHER			1				
EN ROUTE TO TREAT CROP					1	1	1.89
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING							
FINAL APPROACH		4			4	4	7.55
INITIAL APPROACH							
FINAL APPROACH		2			2	2	3.77
LEVEL OFF/TOUCHDOWN		12			12	12	22.64
ROLL		13			13	13	24.53
ROLL-ON/RUN-ON							
POWER-ON LANDING							
POWER-OFF AUTOROTATIVE LANDIN							
GO-AROUND	2				2	2	3.77
MISSED APPROACH	1				1	1	1.89
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	9	2	3	39	53		
ACCIDENTS	9	2	3	39		53	
PERCENT	17.0	3.8	5.7	73.6			

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
TURBINE POWERED AIRCRAFT
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 53 TOTAL ACCIDENTS
INVOLVES 9 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS		NONFATAL ACCIDENTS		ALL ACCIDENTS	
	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*	CAUSE	FACTOR TOTAL*
PILLOT	4 44.44	3 33.33	5 55.56	27 61.36	1 2.27	31 60.36
PERSONNEL	1 11.11	1 11.11	7 15.91	7 15.91	8 15.09	15.09
AIRFRAME	.00	.00	.00	.00	1 1.89	1.89
LANDING GEAR	.00	.00	.00	.00	8 18.18	18.18
POWERPLANT	1 11.11	1 11.11	3 6.82	3 6.82	4 7.55	7.55
SYSTEMS	.00	.00	.00	.00	.00	.00
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	.00	.00	.00	.00
ROTORCRAFT	.00	.00	.00	.00	.00	.00
AIRPORTS/AIRWAYS/FACILITIES	1 11.11	1 11.11	2 4.55	7 15.91	9 20.45	10 18.87
WEATHER	1 11.11	1 11.11	2 22.22	6 13.64	7 15.09	8 15.09
TERRAIN	.00	.00	.00	.00	1 1.89	1.89
MISCELLANEOUS	1 11.11	1 11.11	5 11.36	5 11.36	6 11.32	6 11.32
UNDETERMINED	2 22.22	2 22.22	.00	.00	2 3.77	2 3.77

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
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 TURBINE POWERED AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INVOLVES 53 TOTAL ACCIDENTS
 INVOLVES 9 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT		1	1					1	1
DELAYED ACTION IN ABORTING TAKEOFF				1		1	1		1
DELAYED IN INITIATING GO-AROUND	1		1				1		1
INADVERTENTLY RETRACTED GEAR							1		1
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	1		1	1		1	1		1
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT							1		1
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC	1		1	2		2	2		2
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS							1		1
IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS	2		2	2		2	4		4
IMPROPER OPERATION OF FLIGHT CONTROLS				1		1	1		1
IMPROPER LEVEL OFF				2		2	2		2
IMPROPER IFR OPERATION				3		3	3		3
IMPROPER IN-FLIGHT DECISIONS OR PLANNING	1		1	2		2	3		3
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING	1		1				1		1
INADEQUATE SUPERVISION OF FLIGHT				4		4	4		4
LACK OF FAMILIARITY WITH AIRCRAFT				3		3	3		3
SELECTED UNSUITABLE TERRAIN		1	1					1	1
MISJUDGED DISTANCE AND SPEED				1		1	1		1
MISJUDGED DISTANCE				1		1	1		1
MISJUDGED DISTANCE AND ALTITUDE	1		1				1		1
MISJUDGED CLEARANCE				3		3	3		3
FAILED TO MAINTAIN DIRECTIONAL CONTROL				1		1	1		1
SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND				1		1	1		1
FAILED TO INITIATE GO-AROUND		1	1	1	1	2	1	2	3
				1		1	1		1
SUBTOTAL	8	3	11	30	1	31	38	4	42
COPILOT									
IMPROPER LEVEL OFF				1		1	1		1
IMPROPER COMPENSATION FOR WIND CONDITIONS				1		1	1		1
MISJUDGED DISTANCE AND ALTITUDE				2		2	2		2
SUBTOTAL				4		4	4		4
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
INADEQUATE INSPECTION OF AIRCRAFT (MAINTENANCE PERSONNEL)				1		1	1		1
INADEQUATE MAINTENANCE AND INSPECTION				3		3	3		3
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
FAILURE TO ISSUE NOTAM				1		1	1		1
PRODUCTION-DESIGN									
POOR/INADEQUATE DESIGN				1		1	1		1
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT				1		1	1		1
PASSENGER									
THIRD PILOT	1		1				1		1
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	1		1	7		7	6		6
** AIRFRAME **									

CAUSE/FACTOR TABLE

AIRFRAME (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
WINGS									
FUSELAGE									
DOORS, DOOR FRAMES									
LANDING GEAR									
NORMAL RETRACTION/EXTENSION ASSEMBLY									
EMERGENCY/EXTENSION ASSEMBLY									
NOSEWHEEL ASSEMBLIES									
WHEELS, TIRES, AXLES									
SKID ASSEMBLY									
GEAR LOCKING MECHANISM									
SWITCHES, LEVERS, CRANKING MECHANISM, ETC									
DIRECT ENTRIES									
FLIGHT CONTROL SURFACES									
SUBTOTAL									
** POWERPLANT **									
ENGINE STRUCTURE									
IGNITION SYSTEM									
FUEL SYSTEM									
LUBRICATING SYSTEM									
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
EXHAUST SYSTEM									
ENGINE ACCESSORIES									
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS									
COMPRESSOR STALLS									
DIRECT ENTRIES									
REDUCTION GEAR ASSEMBLY									
COMPRESSOR ASSEMBLY									
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
GOVERNOR									
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL									
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									
AIRPORT CONDITIONS									
WET RUNWAY									
ICE/SLUSH ON RUNWAY									
SNOW ON RUNWAY									
POORLY MAINTAINED RUNWAY SURFACE									
SNOW ON RAMP/TAXIWAY									
OTHER									
AIRWAYS FACILITIES									
SUBTOTAL									
** WEATHER **									

CAUSE/FACTOR TABLE

WEATHER (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
LOW CEILING		1	1		1	1		2	2
RAIN		1	1		1	1		2	2
FOG		1	1					1	1
ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC	1		1				1		1
CONDITIONS CONDUCTIVE TO CARB/INDUCTION SYSTEM ICING					1	1		1	1
UNFAVORABLE WIND CONDITIONS					2	2		2	2
THUNDERSTORM ACTIVITY					2	2		2	2
OTHER					1	1		1	1
SUBTOTAL	1	3	4		8	8	1	11	12
** TERRAIN **									
ROUGH/UNEVEN					1	1		1	1
SUBTOTAL					1	1		1	1
** MISCELLANEOUS **									
BIRD COLLISION					2	2		2	2
VORTEX TURBULENCE	1		1					1	1
EVASIVE MANEUVER TO AVOID COLLISION					1	1		1	1
UNDETERMINED	2		2					2	2
DIRECT ENTRIES					2	2		2	2
SUBTOTAL	3		3		5	5		8	8
GRAND TOTAL	15	7	22	64	19	83	79	26	105
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP-IMPROPER OPER. OF/FAILED TO USE	1		1					1	1
IMPROPER EMERGENCY PROCEDURES	1		1			1		2	2
GUST LOCKS ENGAGED					1	1		1	1
INSTRUMENTS-MISREAD OR FAILED TO READ					1	1		1	1
NOT ALLIGNED WITH RUNWAY/INTENDED LANDING AREA					1	1		1	1
IMPROPERLY SECURED					1	1		1	1
EXPLOSIVE DECOMPRESSION					1	1		1	1
FAILURE OF TWO OR MORE ENGINES	1	1	2		1	2		2	4
CORRODED/CORROSION					1	1		1	1
ICE-ENGINE	1		1		2	2		3	3
AIRCRAFT CAME TO REST IN WATER		1	1		1	1		2	2
HYDROPLANING ON WET RUNWAY					3	3		3	3
OVERLOAD FAILURE					9	9		9	9
MATERIAL FAILURE					3	4		3	4
IMPROPER CLEARANCE-TOLERANCE					1	1		1	1
RUNWAY CLOSED					1	1		1	1
DOWNWIND		1	1		2	2		3	3
INTENTIONAL WHEELS UP					1	1		1	1

DIRECT ENTRY CAUSES

LDG GR-NOSE GR STRUT DID NOT EXTND REASON UNDETRMD
 PWR PLY-ENGINES WOULDNT AIRSTART.REASON IS UNKNOWN
 MISC-ANTELOPE RAN ONTO RUNWAY.
 MISC-DEER CROSSED RUNWAY WHEN PILOT LANDED.

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

INJURIES, ACCIDENTS
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 TURBINE POWERED AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

	INJURIES					TOTAL
	FATAL	SERIOUS	MINDR	NONE	UNKNOWN	
PILOT	6	3	3	41		53
COPILLOT	6	2	2	37		47
DUAL STUDENT						
CHECK PILOT						
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT				1		1
EXTRA CREW						
PASSENGERS	15	5	12	117		149
TOTAL	27	10	17	196		250
ABOARD						250
OTHER AIRCRAFT						
OTHER GROUND	1		2			3
GRAND TOTAL	28	10	19	196		253

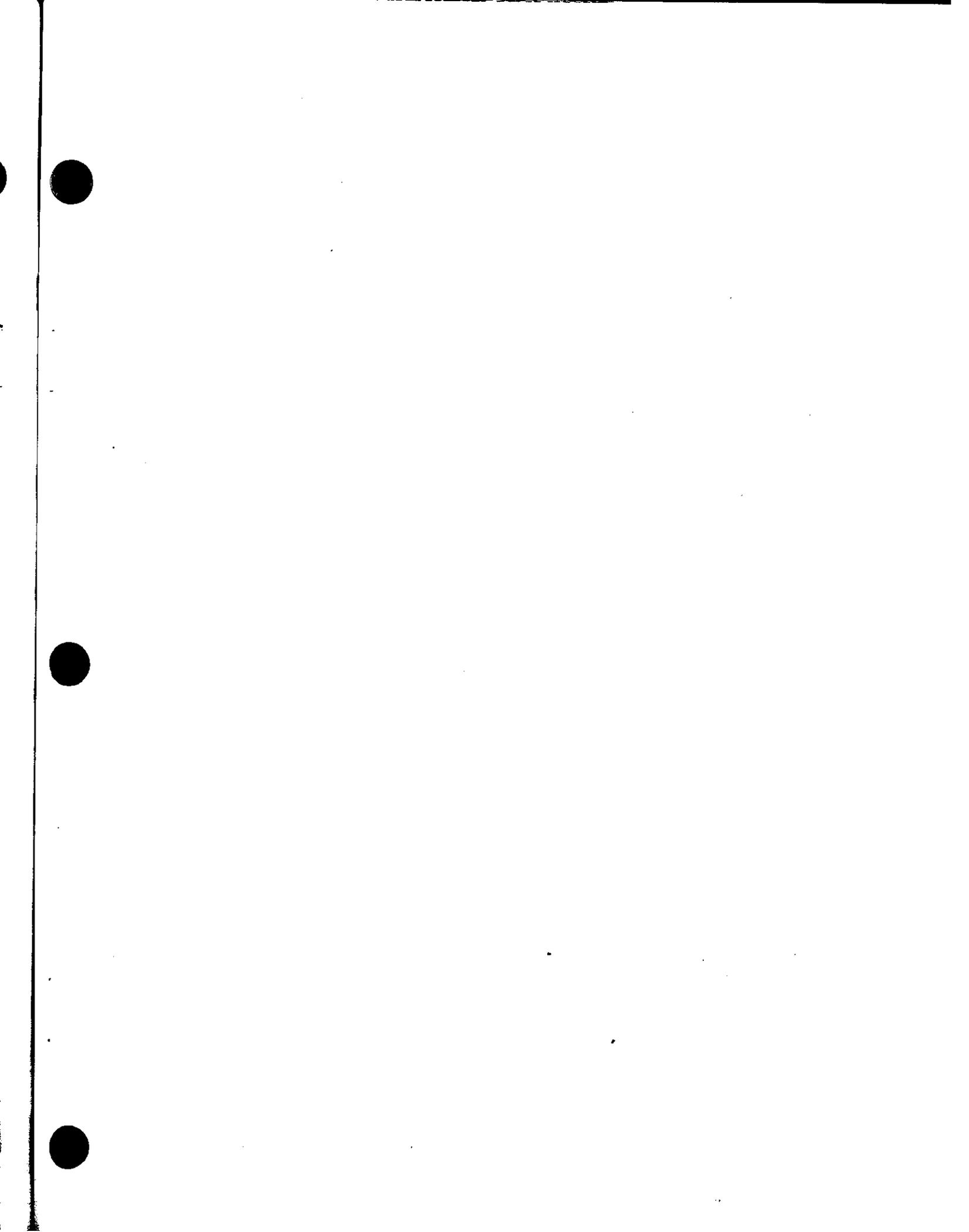
INVOLVES 53 TOTAL ACCIDENTS
 INVOLVES 9 FATAL ACCIDENTS

ACCIDENT LISTING
 DAMAGE/INJURY PRECEDED BY LOSS OF POWER
 CORPORATE/EXECUTIVE FLYING
 U. S. GENERAL AVIATION
 1964 - 1968

2	0157N5645D	030564 DELTA UTAH	BEECHCRAFT E18S	F
2	0378N451HC	042764 BILLINGS MONT	BEECHCRAFT 65	F
3	0387N3830C	012864 NASHVILLE TENN	AERO COMM 500	M
3	0584N7161P	030964 CLEARWATER KANS	PIPER PA24	M
3	1498N80492	053164 MEMPHIS TENN	BEECHCRAFT D-18S	N
3	2927N75200	091664 FT LAUDERDALE FLA	BEECHCRAFT E18S	N
3	3821N413TB	121864 BOERNE TEX	BEECHCRAFT C45H	M
2	0093N600N	030565 PHILIPSBURG PA	LOCKHEED L-18	F
2	0729N6136	110365 MT.HOLLY NJ	PIPER PA-23	C
3	0817N911Y	050565 ROCK SPRINGS WYO	BEECHCRAFT 95	N
3	2028N1705C	072265 KEENE TEX	CESSNA 180	N
3	2757N286GB	092165 ALLENTOWN PA	PIPER PA-23	N
3	2773N541M	090965 CAMARILLO CALIF	AERO CMDR 680-FL	N
3	3031N6228D	101865 MEEKER COLO	AERO CMDR 680	M
3	3777N770HB	111765 ALBUQUERQUE N MEXA	AERO CMDR 680-FL	N
2	0910N529N	031166NGREEN CASTLE MD	BEECH 65-90	F
2	0953N8799F	091666 LINCOLN RI	HUGHES 269A	F
2	0954N324Y	091966NMORGAN CITY LA	SIKORSKY S-62A	C
2	0958N6736D	092366NLEEVIILE LA	BELL 47J	N
3	0069N5512Y	020166 COLUMBUS OHIO	PIPER PA-23	N
3	0383N2673Z	022666 MORGAN CITY LA	CESSNA 185C	N
3	0809N7475E	032966NBYRON ILL	CESSNA 210	N
3	1399N316M	031866 CHICAGO ILL	LEAR 23	M
3	2166N3301P	042066 IOWA CITY IOWA	PIPER PA-23	N
3	4127N9646R	122166 NAPOLEON OHIO	BEECH 895	N
3	4362N2A	111066 WILMINGTON CALIF	GOODYR ACFTGZ-19A	N

ACCIDENT LISTING
DAMAGE/INJURY PRECEDED BY LOSS OF POWER
CORPORATE/EXECUTIVE FLYING
U. S. GENERAL AVIATION
1964 - 1968

6	0060N28343	081766 MERIDA MEX	DOUGLAS	DC-3	N
6	0084N8547F	082366 RAHGIRD IRAN	BELL	47G-3B	F
2	0154N8583F	042467NMORGAN CITY LA	BELL	47J-2A	N
2	0540N4957S	061267 LAPLACE, LA	SIKORSKY	HRS-1	N
2	0560N7784Y	042367 CHARLES CITY, IOWA	PIPER	PA-30	F
2	0598N501W	050867 JOHNSON CITY, NY	BEECH	E18S	F
2	0853N2628B	022267 JETSON, KY	AERO COMDR	520	F
2	1038N348E	120767 ATHENS, LA	BEECH	V-35	F
3	0636N6800S	022767 COLUMBUS, OHIO	AERO COMDR	680F	N
3	0748N5799X	030767 RENO, NEV	CESSNA	320	N
3	1039N952	032967 COLORADO SPG COLO	BEECH	H18	N
3	2192N827T	041267 ALCOVA, WYO	BEECH	65-90	N
3	3415N5100Y	100167 NASHVILLE, TENN	PIPER	PA-23	N
3	4592N511JL	122067 LEBANON, ILL	BEECH	95-A55	N
6	0126N1309V	091367 KINGSTON, JAMAICA	CURTISS-WRTC	-46F	N
3	0035N909T	011268 NORWICH, NY	BEECH	H18	N
3	0099N3095D	012368 ERIE, PA	CESSNA	310	N
3	1003N9463F	042368 JOLIET, ILL	HUGHES	269B	N
3	1177N7871L	050168 MITCHELL, IND	BEECH	V35	N
3	1648N342N	061068 GARLAND, TEX	BEECH	65	M
3	1750N6243B	030768 LAKE HUGHES, CALIF	AERO COMDR	680-E	F
3	2173N186X	061968 CANTIL, CALIF	CANADAIR	MK VI	N
3	2243N196KC	070168 FAYETTEVILLE, ARK	AERO COMDR	1121	F
3	2856N252LD	080468 KENNARD, TEX	AERO COMDR	500-B	N
3	4883N162A	120668 TETERBORD, NJ	CESSNA	411	C
3	4918N7610U	082768 MINNEAPOLIS, MINN	AERO COMDR	680T	N



ANALYTIC TABLE

SECOND TYPE OF ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ACCIDENTS PRECEDED BY ENGINE FAILURE/MALFUNCTION
 OR
 LOSS OF POWER FOR ANY REASON
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

SECOND TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
GROUND-WATER LOOP-SWERVE				1	1	1	1.92
DRAGGED WINGTIP, POO, OR FLOA							
WHEELS-UP LANDING		1	8		9	9	17.31
WHEELS-DOWN LANDING IN WATER							
GEAR COLLAPSED			3		3	3	5.77
GEAR RETRACTED							
HARD LANDING	1	1	3		5	5	9.62
NOSE OVER/DOWN	1				1	1	1.92
ROLL OVER							
OVERSHOOT							
UNDERSHOOT	1	1			2	2	3.85
<u>COLLISION WITH AIRCRAFT</u>							
BOTH IN FLIGHT							
ONE AIRBORNE							
BOTH ON GROUND							
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	2		1		3	3	5.77
UNCONTROLLED	2		1		3	3	5.77
<u>COLLIDED WITH</u>							
WIRES/POLES	1		3		4	4	7.69
TREES	2		2		4	4	7.69
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS			2		2	2	3.85
ELECTRONIC TOWERS							
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD							
ANIMALS							
CROP							
FLAGMAN LOADER							
DITCHES			2		2	2	3.85
SNOWBANK							
PARKED AIRCRAFT							

57
 BLANK

INJURY INDEX

SECOND TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
AUTOMOBILE							
DIRTBANK							
OBJECT			1	1	2	2	3.85
BIRD STRIKE							
<u>STALL</u>	1	1			2	2	3.85
SPIN	1				1	1	1.92
SPIRAL							
MUSH		1	1		2	2	3.85
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT							
ON GROUND			1		1	1	1.92
<u>AIRFRAME FAILURE</u>							
IN FLIGHT							
ON GROUND							
ENGINE TEARAWAY			1		1	1	1.92
ENGINE FAILURE OR MALFUNCTION							
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER			1		1	1	1.92
TAIL ROTOR							
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P							
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE							
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING		1	1	1	3	3	5.77
MISSING AIRCRAFT NOT RECOVERE							
MISCELLANEOUS, OTHER							
UNDETERMINED							
RECORDS	12	3	5	32	52		
ACCIDENTS	12	3	5	32		52	
PERCENT	23.1	5.8	9.6	61.5			

ANALYTIC TABLE

SECOND PHASE OF OPERATION VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ACCIDENTS PRECEDED BY ENGINE FAILURE/MALFUNCTION
 OR
 LOSS OF POWER FOR ANY REASON
 U. S. GENERAL AVIATION
 1964 - 1968

AIRCRAFT DAMAGE

SECOND
OPERATIONAL PHASE

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 TAKE OFF
 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
 ABORTED
 ABORTED
 ABORTED
 OTHER

IN FLIGHT

CLIMB TO CRUISE
 NORMAL CRUISE
 DESCENDING
 HOLDING
 HOVERING
 POWER-ON DESCENT

OPERATIONAL PHASE	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
STARTING ENGINE/S							
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS							
PARKED-ENGINES NOT OPERATING							
OTHER							
TO TAKE OFF							
FROM LANDING	1				1	1	1.92
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	1	2			3	3	5.77
VERTICAL							
RUNNING							
ABORTED	1	1			2	2	3.85
ABORTED							
ABORTED							
OTHER							
IN FLIGHT							
CLIMB TO CRUISE							
NORMAL CRUISE	1				1	1	1.92
DESCENDING							
HOLDING							
HOVERING							
POWER-ON DESCENT							

AIRCRAFT DAMAGE

SECOND
OPERATIONAL PHASE

DESTROYED
SUBSTANTIAL
MINOR
NONE

	RECORDS	ACCIDENTS	PERCENT
AUTOROTATIVE DESCENT	1	1	1.92
ACROBATICS			
BUZZING			
UNCONTROLLED DESCENT	2	2	3.85
EMERGENCY DESCENT			
LOW PASS			
OTHER			
EN ROUTE TO TREAT CROP			
EN ROUTE TO RELOADING AREA			
SURVEY FIELD/AREA			
STARTING SWATH RUN			
SWATH RUN			
FLAREOUT FOR SWATH RUN			
PULLUP FROM SWATH RUN			
PROCEDURE TURNAROUND			
CLEANUP SWATH			
MANEUVER TO AVOID OBSTRUCTION			
RETURN TO STRIP			
<u>LANDING</u>			
TRAFFIC PATTERN-CIRCLING			
FINAL APPROACH	5 2	7	7 13.46
INITIAL APPROACH			
FINAL APPROACH	1	1	1 1.92
LEVEL OFF/TOUCHDOWN	4 11	15	15 28.85
ROLL	1 10	11	11 21.15
ROLL-ON/RUN-ON			
POWER-ON LANDING			
POWER-OFF AUTOROTATIVE LANDIN	2 4	6	6 11.54
GO-AROUND	1	1	1 1.92
MISSED APPROACH			
OTHER	1	1	1 1.92
UNKNOWN/NOT REPORTED			
RECORDS	21 31	52	
ACCIDENTS	21 31		52
PERCENT	60.4 59.6	.0	.0

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
ACCIDENTS PRECEDED BY ENGINE FAILURE/MALFUNCTION
OR
LOSS OF POWER FOR ANY REASON
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 52 TOTAL ACCIDENTS
INVOLVES 12 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	8	1	8	18	2	18	26	3	26
	66.67	8.33	66.67	45.00	5.00	45.00	50.00	5.77	50.00
PERSONNEL				7	1	8	7	1	8
	.00	.00	.00	17.50	2.50	20.00	13.46	1.92	15.38
AIRFRAME									
	.00	.00	.00	.00	.00	.00	.00	.00	.00
LANDING GEAR									
	.00	.00	.00	.00	.00	.00	.00	.00	.00
POWERPLANT	4		4	20	2	22	24	2	26
	33.33	.00	33.33	50.00	5.00	55.00	46.15	3.85	50.00
SYSTEMS									
	.00	.00	.00	.00	.00	.00	.00	.00	.00
INSTRUMENTS/EQUIPMENT AND ACCESSORIES									
	.00	.00	.00	.00	.00	.00	.00	.00	.00
ROTORCRAFT				1		1	1		1
	.00	.00	.00	2.50	.00	2.50	1.92	.00	1.92
AIRPORTS/AIRWAYS/FACILITIES									
	.00	.00	.00	.00	1	1	.00	1	1
WEATHER	4	3	7	3	4	7	7	7	14
	33.33	25.00	58.33	7.50	10.00	17.50	13.46	13.46	26.92
TERRAIN									
	.00	8.33	8.33	5.00	2	4	2	3	5
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
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ACCIDENTS PRECEDED BY ENGINE FAILURE/MALFUNCTION
 OR
 LOSS OF POWER FOR ANY REASON
 U. S. GENERAL AVIATION
 1964 - 1968

INVOLVES 52 TOTAL ACCIDENTS
 INVOLVES 12 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 EXTEND LANDING GEAR				1		1	1		1
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	1		1	2		2	3		3
FAILED TO MAINTAIN ADEQUATE ROTOR RPM	1		1	1		1	2		2
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT				1		1	1		1
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC					1	1		1	1
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS	3		3	8		8	11		11
IMPROPER OPERATION OF FLIGHT CONTROLS				2		2	2		2
IMPROPER IN-FLIGHT DECISIONS OR PLANNING				3		3	3		3
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING	1		1	1		1	2		2
INADEQUATE SUPERVISION OF FLIGHT	1		1	1		1	2		2
LACK OF FAMILIARITY WITH AIRCRAFT		1	1		1	1		2	2
MISMANAGEMENT OF FUEL	3		3	1		1	4		4
FAILED TO ASSURE THE GEAR WAS DOWN AND LOCKED				2		2	2		2
SPONTANEOUS-IMPROPER ACTION	1		1				1		1
SUBTOTAL	12	1	13	23	2	25	35	3	38
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
IMPROPERLY SERVICED AIRCRAFT(GROUND CREW)				4		4	4		4
INADEQUATE MAINTENANCE AND INSPECTION				2	1	3	2	1	3
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN									
POOR/INADEQUATE DESIGN				1		1	1		1
MISCELLANEOUS-PERSONNEL									
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL				7	1	8	7	1	8
** POWERPLANT **									
ENGINE STRUCTURE									
CRANKSHAFT									
				2		2	2		2
CYLINDER ASSEMBLY									
				1		1	1		1
PISTON, PISTON RINGS									
				2		2	2		2
IGNITION SYSTEM									
FUEL SYSTEM									
TANKS									
SELECTOR VALVES	1		1	1		1	1		1
PUMPS									
				1		1	1		1
VENTS, DRAINS, TANK CAPS									
				1	1	2	1	1	2
LUBRICATING SYSTEM									
LINES, HOSES, FITTINGS				1		1	1		1
SEALS AND GASKETS				1		1	1		1
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
BLADES									
EXHAUST SYSTEM				1		1	1		1
ENGINE ACCESSORIES									

CAUSE/FACTOR TABLE

POWERPLANT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
VACUUM PUMPS	1		1				1		1
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
FUEL QUANTITY GAUGE					1	1		1	1
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS	2		2	6		6	8		8
COMPRESSOR STALLS				1		1	1		1
DIRECT ENTRIES	1		1	1		1	2		2
REDUCTION GEAR ASSEMBLY									
GEARS, ACCESSORY DRIVE				1		1	1		1
COMPRESSOR ASSEMBLY									
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
GOVERNOR				1		1	1		1
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL	5		5	21	2	23	26	2	28
** ROTORCRAFT **									
ROTOR ASSEMBLIES									
TRANSMISSION ROTOR DRIVE SYSTEM									
CLUTCH ASSEMBLY				1		1	1		1
FLIGHT CONTROL SYSTEMS									
MISCELLANEOUS UNITS AND ASSEMBLIES									
SUBTOTAL				1		1	1		1
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									
AIRPORT CONDITIONS									
OTHER					1	1		1	1
AIRWAYS FACILITIES									
SUBTOTAL					1	1		1	1
** WEATHER **									
LOW CEILING	1	2	3		1	1	1	3	4
RAIN				1		1	1		1
FOG	1	1	2	1	1	2	2	2	4
SNOW	1	1	2				1	1	2
ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC	2		2	1	1	2	3	1	4
CONDITIONS CONDUCTIVE TO CARB/INDUCTION SYSTEM ICING	2	1	3	2	2	4	4	3	7
SUBTOTAL	7	5	12	5	5	10	12	10	22
** TERRAIN **									
ROUGH/UNEVEN		1	1	1	1	2	1	2	3
GLASSY WATER				1		1	1		1
OTHER					1	1		1	1
SUBTOTAL		1	1	2	2	4	2	3	5

MISCELLANEOUS (CONTINUED)

CAUSE/FACTOR TABLE

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
GRAND TOTAL	24	7	31	59	13	72	83	20	103
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP-IMPROPER OPER. OF/FAILED TO USE	3		3	4		4	7		7
CHECKLIST-FAILED TO USE				1	1	2	1	1	2
DISREGARD OF GOOD OPERATING PRACTICE					1	1		1	1
IMPROPER EMERGENCY PROCEDURES	2	1	3	3	2	5	5	3	8
FEATHERED WRONG ENGINE				1		1	1		1
INATTENTIVE TO FUEL SUPPLY	3		3				3		3
FATIGUE FRACTURE				2		2	2		2
FAILURE OF TWO OR MORE ENGINES	1	4	5	2	5	7	3	9	12
SEPARATION IN FLIGHT					1	1		1	1
FIRE IN ENGINE					1	1		1	1
FUEL EXHAUSTION					1	1		1	1
ICE-ENGINE	1		1	6		6	6		6
ICE-CARBURETOR	1		1	2		2	3		3
AIRFRAME ICE				3		3	4		4
ICE-WINDSHIELD				1		1	1		1
SUNGLARE				1		1	1		1
STIMULATED CONDITIONS				1		1	1		1
WATER IN FUEL	1		1				1		1
AIRCRAFT CAME TO REST IN WATER				2		2	2		2
OVERLOAD FAILURE					2	2		2	2
MATERIAL FAILURE					2	2		2	2
FUEL STARVATION		1	1	6	1	7	6	2	8
IMPROPER CLEARANCE-TOLERANCE	4		4	2		2	6		6
FUEL SELECTOR POSITIONED BETWEEN TANKS					1	1		1	1
IMPROPER/INADEQUATE VENTING	1		1				1		1
LEAK/LEAKAGE				1		1	1		1
ERRATIC				1		1	1		1
IMPROPERLY INSTALLED					1	1		1	1
PRESSURE, NONE				1		1	1		1
INTENTIONAL WHEELS UP				1		1	1		1

DIRECT ENTRY CAUSES

PWR PLT-ENGINES WOULDNT AIRSTART.REASON IS UNKNOWN
 PWR PLT-RIGHT ENG. AIR FILTER BOX BLOCKED BY SNOW.

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

INJURIES, ACCIDENTS
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ACCIDENTS PRECEDED BY ENGINE FAILURE/MALFUNCTION
 OR
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 U. S. GENERAL AVIATION
 1964 - 1968

	INJURIES					TOTAL
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN	
PILOT	9	5	4	34		52
COPILOT	2	1	1	6		10
DUAL STUDENT						
CHECK PILOT			1			1
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT						
EXTRA CREW						
PASSENGERS	15	6	21	1		96
TOTAL	26	12	27	95		160
OTHER AIRCRAFT						
OTHER GROUND						
GRAND TOTAL	26	12	27	95		160

INVOLVES 52 TOTAL ACCIDENTS
 INVOLVES 12 FATAL ACCIDENTS

SECTION II

SMALL

FIXED WING

AIRCRAFT

ACCIDENTS

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3	0520N46M	021767 FAIRHOPE,ALA	BEECH	E185	N
3	0870N4963B	031567 BIRMINGHAM,ALA	BEECH	D50	N
3	4754N825LJ	103167 HUNTSVILLE,ALA	LEAR JET	23	N
3	0382N24G	021764 PHOENIX ARIZ	BEECHCRAFT	D18S	N
3	1439N414N	061565 SEDONA ARIZ	AERO CMDR	680	M
2	0597N301V	080167 PHOENIX, ARIZ	BEECH	E18S	N
3	4521N617EJ	121367 PHOENIX,ARIZ	CESSNA	411	N
3	0090N78383	010967 BRINKLEY,ARK	AERO COMDR	500-A	N
3	3394N21X	092167 WALNUT RIDGE,ARK	BEECH	E18S	M
3	0030N420RJ	011766 SAN FRANCISCO CAL	BEECHCRAFT	C45H	N
3	0236N9660C	012465 SACRAMENTO CALIF	BEECHRAFT	C45H	N
3	0468N3217P	021167 FALLBROOK,CALIF	PIPER	PA-23	N
3	0112N103MC	021266 LOS ANGELES CALIF	PIPER	PA-23	N
3	1750N6243B	030768 LAKE HUGHES,CALIF	AERO COMDR	680-E	F
3	1195N262LC	031666 BURBANK CALIF	BEECH	65	N
3	0656N3758S	031664 LOS ANGELES CALIF	CESSNA	172S	N
2	0245N3625U	040364 YOSEMITE N PA CAL	CESSNA	182F	C
3	2333N3616Y	071868 MCKINLEYVILLE,CAL	CESSNA	210	N
3	2551N8314G	071968 FRESNO,CALIF	CESSNA	337B	N
3	2434N388R	072368 LITTLE ROCK,CALIF	LEAR JET	24A	N
3	3093N20S	072566 IMPERIAL CALIF	LEAR JET	23	N
2	1029N159GK	080164NMANHATN BEACH CAL	CESSNA	310H	F
3	2773N541M	090965 CAMARILLO CALIF	AERO CMDR	680-FL	N
3	2837N797K	090964 SACRAMENTO CALIF	BEECHCRAFT	65	N
3	3207N6852S	101264 REDDING CALIF	AERO COMM	680E	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3	3343N613Q	102764	SALINAS CALIF	BEEHCRAFT	F50	N
3	4367N716AG	112267	SACRAMENTO,CALIF	BEECH	65-80	N
3	4186N4005L	112967	SALINAS,CALIF	CESSNA	421	M
3	4446N6800Q	121968	FRESNO,CALIF	BEECH	65-80	N
3	1435N3714Y	030564	DENVER COL	CESSNA	210	N
3	0524N6793T	032865	ASPEN COLO	CESSNA	310D	N
3	1030N3194D	032867	GRANBY,COLO	CESSNA	180	N
3	1039N952	032967	COLORADO SPG	COLOBEECH	H18	N
3	1170N6807D	050564	LAMAR COLO	CESSNA	210	N
2	0707N8000G	080967	PARSHALL,COLO	AERO-COMDR	520	F
3	3031N6228D	101865	MEEKER COLO	AERO CMDR	680	M
3	3415N330KL	110664	BROOMFIELD COLO	BEEHCRAFT	H18	N
3	0757N2751Q	021568	PLAINVILLE,CONN	CESSNA	182	N
3	1354N6980T	042967	NEW HAVEN,CONN	CESSNA	310D	N
3	0205N398B	012765	FTLAUDERDALE	FLABEEHCRAFT	E18	N
3	0866N639R	022665	JACKSONVILLE FLA	CESSNA	RILEY	N
3	0817N2954	032064	W PALM BEACH FLA	GRUMMAN	G73	N
3	1067N2670Y	042866	NCLEWISTON FLA	CESSNA	180E	N
3	1338N1182F	052965	ORLANDO FLA	BEEHCRAFT	D18S	N
3	2138N2229F	070268	JACKSONVILLE,FLA	CESSNA	310L	N
3	1998N9484S	071068	FT.LAUDERDALE,FLA	BEECH	95-C55	N
3	3263N54K	080867	TAMPA,FLA	BEECH	E18S	N
3	2168N1056Q	081365	CAPE CORAL FLA	CESSNA	310H	N
3	2927N7520O	091664	FT LAUDERDALE	FLABEEHCRAFT	E18S	N
3	3165N171DC	110865	MIAMI FLA	BEEHCRAFT	D-18S	N
3	4667N135W	120367	JACKSONVILLE,FLA	BEECH	H18	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
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 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3 4592N11141	123168 JACKSONVILLE,FLA	BEECH	D18S	N
3 0186N85TM	012267 ATLANTA,GA	BEECH	850	N
2 0854N918X	042867 ACWORTH,GA	BEECH	E18S	F
2 0364N3149L	051267 ATLANTA, GA	CESSNA	310J	N
3 2229N5557Y	070567 AUGUSTA,GA	PIPER	PA-23	N
3 4147N9390Y	081167 ATLANTA,GA	BEECH	J50	N
3 2880N9929X	081367 ATLANTA,GA	CESSNA	185	N
3 2529N455HC	090866 DOUGLAS GA	BEECH	95-B55	N
3 0147N2126X	011367 MALAD CITY ID	CESSNA	337	N
3 1900N3144C	070164 HAMET ID	CESSNA	180	N
3 0330N7970K	020665 DES PLAINES ILL	BEECHRAFT	95-558	N
3 0450N188D	022768 MARENGO, ILL	AERD COMDR	680F	N
3 0481N4784P	022764 ELGIN ILL	PIPER	PA23	N
3 0801N21U	031467 CHICAGO, ILL	BEECH	E18S	N
3 0716N56K	031766 CHICAGO ILL	BEECH	G18S	N
3 1399N316M	031866 CHICAGO ILL	LEAR	23	M
3 0776N2427	032566 QUINCY ILL	BEECH	E18S	N
3 0809N7475E	032966NBYRON ILL	CESSNA	210	N
3 0877N503GD	042866 QUINCY ILL	PIPER	PA-23	N
3 1167N1757H	050464 JACKSONVILLE ILL	CESSNA	310C	N
3 1283N6743T	051564 TAYLORVILLE ILL	CESSNA	310D	N
2 0439N701W	053167 WHEELING, ILL	AERD COMDR	560-E	C
3 3196N1141Q	061366 MOLINE ILL	CESSNA	310H	N
3 1611N895K	062468 CHICAGO, ILL	BEECH	65-90	F
3 2249N5716X	072864 PEORIA ILL	CESSNA	320	N
3 2955N999NJ	081867 WHEELING, ILL	DEHAVILAND	OH 104	N

AIRCRAFT ACCIDENT LISTING
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 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3	3616N9088Y	090468	PARIS, ILL	PIPER	PA-31	N
3	3346N1966W	090667	WHEELING, ILL	LEAR JET	23	N
3	2536N309FS	091266	BLOOMINGTON ILL	CESSNA	310J	N
3	3587N95A	091568	SPRINGFIELD, ILL	BEECH	J50	N
3	3915N4183T	091968	ROCKFORD, ILL	CESSNA	320D	N
3	3098N5252A	100364	WHEELING ILL	CESSNA	310R	N
3	3517N660M	101066	WAUKEGAN ILL	BEECH	D50A	N
3	3761N3062T	102368	ROCKFORD, ILL	CESSNA	320	N
3	3751N903AR	102866	SPARTA ILL	PIPER	PA-23	N
3	3847N4172B	110864	CHICAGO ILL	AERO CMDR	520	N
2	0918N7057Y	120164	CHICAGO ILL	PIPER	PA-30	F
3	4445N941V	121368	CHICAGO, ILL	BEECH	A65	N
3	4592N511JL	122067	LEBANON, ILL	BEECH	95-A55	N
3	0344N3254R	011068	ELKHART, IND	CESSNA	411A	M
3	0059N8948M	011566	ELKHART IND	BEECHCRAFT	35B33	N
3	0098N2609C	012766	FORT WAYNE IND	CESSNA	310	N
3	0422N8985T	022164	GRIFFITH IND	CESSNA	182	N
3	0998N4901B	041668	GARY, IND	BEECH	C50	N
3	1779N721ZC	042968	NFT. WAYNE, IND	PIPER	PA-31	N
3	1177N7871L	050168	MITCHELL, IND	BEECH	V35	N
3	1766N965FT	052867	EVANSVILLE, IND	BEECH	E18S	N
3	2125N2609C	062367	WARSAW, IND	CESSNA	310	N
3	2400N5484Y	071365	RENESELAER IND	PIPER	PA-23	N
3	4708N9658T	091667	EVANSVILLE, IND	CESSNA	210	N
3	3389N935TX	102165	FT WAYNE IND	BEECHCRAFT	D-18S	N
2	0900N342WS	121966	ELKHART IND	AERO COMDR	680F	C

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
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 SMALL FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3	4479N3160K	122668 ELKHART, IND	CESSNA	421	N
3	0922N1142Q	011966 DES MOINES IOWA	CESSNA	310H	N
3	1394N3333C	022366 DES MOINES IOWA	BEECH	E18S	N
3	2180N198Q	031466 HAWARDEN IOWA	BEECH	S35	N
3	2187N3229P	033166 GUTTENBERG IOWA	PIPER	PA-23	N
3	0884N4165D	040965 DUBUQUE IOWA	HELIO	H-395	M
3	2166N3301P	042066 IOWA CITY IOWA	PIPER	PA-23	N
2	0560N7784Y	042367 CHARLES CITY, IOWA	PIPER	PA-30	F
3	3851N610WA	111366 KEOKUK IOWA	BEECH	95-55	N
2	0887N79354	112366 COUNCIL BLFS IOWA	MOONEY	M20E	C
3	4650N772K	121267 IOWA CITY, IOWA	BEECH	65-A90	M
3	0584N7161P	030964 CLEARWATER KANS	PIPER	PA24	M
2	0122N9979R	042264 COLBY KAN	BEECHCRAFT	B95	F
3	3621N173D	091868 KANSAS CITY, KANS	BEECH	95-855	N
2	0853N2628B	022267 JETSON, KY	AERO COMDR	520	F
3	0330N2731B	022868 LEXINGTON, KY	AERO COMDR	560A	N
3	4748N213RC	090567 BOWLING GREEN, KY	AERO COMDR	500-U	N
3	0114N8088M	012065 MONROE LA	CESSNA	310I	N
3	0385N513T	021764 VILLE PLATTE LA	CESSNA	180	N
3	0383N2673Z	022666 MORGAN CITY LA	CESSNA	185C	N
3	0479N665T	022764 SHREVEPORT LA	BEECHCRAFT	95	N
3	0852N60X	040864 LAFAYETTE LA	GRUMMAN	G21A	N
3	1261N650M	042166 COLUMBIA LA	BEECH	E18S	N
3	4717N41982	052468 LAFITTE, LA	GRUMMAN	G-44A	F
3	1448N6033Y	060568 ALEXANDRIA, LA	PIPER	PA-23	N
3	1637N9227T	071266 VENICE LA	CESSNA	180	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
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 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3 2435N1627	072368 GRAND ISLE, LA	GRUMMAN	G-73	N
3 2580N242WT	101066 NEW ORLEANS LA	LEAR JET	23	N
3 3822N70U	110168 BELLE CHASSE, LA	GRUMMAN	G-44	M
3 3637N6209Y	111366 EUNICE LA	PIPER	PA-23	N
2 1038N348E	120767 ATHENS, LA	BEECH	V-35	F
3 3620N9224T	120764 FRANKLIN LA	CESSNA	180	N
3 4587N111W	122768NLUTCHER, LA	GRUMMAN	G-44	C
3 0163N3310	012866 PORTLAND ME	CESSNA	310B	N
3 1793N7673Y	070166 AUBURN ME	PIPER	PA-30	N
3 0233N411U	010165 FREDERICK MD	BEECHRAFT	D18S	N
3 0102N4962P	011167 HAGERSTOWN MD	PIPER	PA-23	N
3 1037N9388R	022466 HAGERSTOWN MD	AERO COMDR	500-B	M
3 0731N4444Q	042065 FREDERICK MD	BEECHCRAFT	65-80	N
3 2052N1812D	071364 BALTIMORE MD	BEECHCRAFT	D18S	N
3 2833N3531B	081467 BALTIMORE, MD	BEECH	D18S	N
3 3084N4622P	101465 REVERDALE MD	PIPER	PA-23	N
3 0885N6950T	040965 BEVERLY MASS	CESSNA	310D	N
2 0058N344S	061964NSOUTHAMPTON MASSA	AERO CMOR	680	F
3 2361N48K	080564 E BOSTON MASS	BEECHCRAFT	E18S	N
3 2990N620G	082268 FITCHBURG, MASS	BEECH	95-B55	N
3 3863N919X	121164 WORCESTER MASS	BEECHCRAFT	H18	N
3 0012N3482Q	010568 PONTIAC, MICH	CESSNA	320E	N
3 0040N8173M	011368 GRAND RAPIDS, MICH	CESSNA	310I	N
3 0157N3001S	011865 NEGAUNEE MICH	BEECHRAFT	B55	N
3 0160N800Q	012668 FRANKFORT, MICH	BEECH	65-A90	N
3 0491N496CM	021667 MUSKEGON MICH	CESSNA	320	N

AIRCRAFT ACCIDENT LISTING
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3	1183N5500E	021766	SAGINAW MICH	CESSNA	320	N
3	1107N900KC	051666	IRON MOUNTAN MICH	BEECH	E50	N
3	4824N783EF	082768	TROY, MICH	AERO COMDR	680FL	N
3	3258N162F	100968	DETROIT, MICH	BEECH	E18S	N
3	3856N414GN	111768	HOUGHTON, MICH	BEECH	890	N
3	4037N824CP	120366	FRANKFORT MICH	BEECH	95-C55	N
3	0047N352WB	010767	MINNEAPOLIS, MINN	BEECH	E18S	N
3	0234N8907Z	012567	MINNEAPOLIS, MINN	CESSNA	310G	N
3	1269N1555V	051364	MINNEAPOLIS MINN	BEECHCRAFT	D18S	N
3	2777N2000T	071666	DETROIT LAKES MINN	CESSNA	310I	N
3	4918N7610U	082768	MINNEAPOLIS, MINN	AERO COMDR	680T	N
3	3735N5248A	102266	ROCHESTER MINN	CESSNA	310	N
3	3882N5574V	110865	MINNEAPOLIS MINN	AERO CMDR	520	N
3	0855N153J	040864	COLUMBIA MISS	BEECHCRAFT	E18S	N
3	3162N8580M	083167	PICAYUNE, MISS	BEECH	35-B33	N
3	1645N181D	011466	MONETT MO	CESSNA	310D	N
3	0395N1420G	013064	KANSAS CITY MO	BEECHCRAFT	A55	N
3	0194N7475E	020164	BOLIVAR MO	CESSNA	210	N
2	0910N529N	031166	NGREEN CASTLE MO	BEECH	65-90	F
3	3402N113P	051068	SCOTT CITY, MO	BEECH	H50	F
3	3112N9465S	071568	KANSAS CITY, MO	BEECH	95-C55	N
3	3923N129Q	082265	GRANDIN MO	BEECHCRAFT	95-B55	N
3	4051N427MT	112668	NVAN BUREN, MO	HELIO ACFT	H-295	N
3	4237N6959L	121266	KANSAS CITY MO	CESSNA	310K	N
3	4630N3550X	122168	NSPRINGFIELD, MO	MITSUBISHI	MU-2B	F
3	0683N2990Y	032164	CONNER MONT	CESSNA	182E	N

AIRCRAFT ACCIDENT LISTING
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2	0378N451HC	042764	BILLINGS MONT	BEECHCRAFT	65	F
2	0457N9355X	070964	ROSCOE MONTANA	CESSNA	182	C
3	2126N4951A	071864	CHOTEAU MONT	CESSNA	180	N
3	3690N3027T	111865	BILLINGS MONT	CESSNA	320	N
3	0087N6167X	010967	LINCOLN NEBR	AERO COMDR	680F	N
3	1215N5896J	050968	SCOTTSBLUFF, NEBR	BEECH	95B55	N
3	4057N6284P	111367	OMAHA, NEBR	PIPER	PA-24A	N
3	0748N5799X	030767	RENO, NEV	CESSNA	320	N
3	3532N416LJ	121266	LAS VEGAS NEV	LEAR JET	23	N
3	1280N24S	051464	CONCORD NH	BEECHCRAFT	C50	N
3	1030N517S	041166	NEWARK NJ	BEECH	E50	N
3	1273N793A	042067	NEWARK, NJ	BEECH	D50C	N
3	0861N550MS	042166	NEWARK NJ	BEECHCRAFT	B50	N
3	1005N41441	042264	NEWARK NJ	AERO COMM	680	N
2	0729N6136	110365	MT. HOLLY NJ	PIPER	PA-23	C
3	4883N162A	120668	TETERBORD, NJ	CESSNA	411	C
3	4222N4118T	123066	MORRISTOWN NJ	CESSNA	320D	N
3	0170N380C	011667	FARMINGTON N MEX	BEECH	65-80	N
3	0466N3015R	022664	LINCOLN STN N MEX	CESSNA	320A	N
2	0912N9423Y	071664	NTOADLENA N MEX	BEECHCRAFT	G18S	F
2	0555N6759T	091464	FARMINGTON -NM	CESSNA	310D	C
3	3777N770HB	111765	ALBUQUERQUE N MEX	AERO CMDR	680-FL	N
3	3531N3049T	120966	FARMINGTON N MEX	CESSNA	320	N
3	4563N3024T	122967	FARMINGTON, N MEX	CESSNA	320C	N
3	0035N909T	011268	NORWICH, NY	BEECH	H18	N
3	0136N78342	011866	SYRACUSE NY	AERO CMDR	680F	N

AIRCRAFT ACCIDENT LISTING
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3	0167N8999A	020666	JAMAICA NY	BEECHCRAFT	95-855	N
2	0380N4827P	021965	DELANCEY NY	PIPER	PA-23	F
2	0183N129GP	041667	ENDICOTT, NY	BEECH	65-A90	F
2	0598N501W	050867	JOHNSON CITY, NY	BEECH	E185	F
3	3270N6854Q	060665	SCHENECTADY NY	BEECHCRAFT	95-855	N
3	3378N811S	082867	JAMAICA, NY	BEECH	65-80	N
3	3310N1153S	091067	MONTAUK POINT, NY	BEECH	65-90	N
3	4109N727SG	110567	PENN YAN, NY	BEECH	95-855	N
3	4660N1401M	111868	LATHAM, NY	BEECH	65	F
3	0196N3044P	011365	WILKESBORO NC	PIPER	PA23	N
3	1036N8973Z	050468	FLETCHER, NC	CESSNA	310G	N
3	1518N5637D	061566	HATTERAS NC	BEECH	E185	N
3	1707N9470X	062765	FAISON NC	CESSNA	210	N
3	2787N111D	072867	CHARLOTTE, NC	AERO COMDR	680	N
3	1773N332PC	072966	MANTED NC	LEAR JET	23	N
3	2415N4303D	081266	CHARLOTTE NC	BEECH	D50	N
3	2846N1540Z	082167	BOONE, NC	BEECH	A55	N
3	3589N5711Q	112466	RAMSEUR NC	MOONEY	M20E	N
3	2772N198Q	071266	WAHPETON N DAK	BEECH	S35	N
3	0339N5452E	011968	YOUNGSTOWN, OHIO	HELIO ACFT	H-250	N
3	0140N703WC	012467	JEFFERSON, OHIO	BEECH	65-A90	N
3	0278N712Q	012667	CINCINNATI, OHIO	BEECH	65-80	N
3	0176N4324D	013066	WOOSTER OHIO	BEECHCRAFT	D50	N
3	0069N5512Y	020166	COLUMBUS OHIO	PIPER	PA-23	N
3	0636N6800S	022767	COLUMBUS, OHIO	AERO COMDR	680F	N
3	0873N162A	031667	STEUBENVILLE, OHIO	CESSNA	411	N

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3	0701N49M	032564 LAKE ERIE OHIO	BEECHCRAFT	E18S	N
3	0645N1708H	041965 CINCINNATI OHIO	CESSNA	310C	N
3	1290N5635D	042667 COLUMBUS,OHIO	BEECH	E18S	N
3	2054N3773Q	052068 PHONETON,OHIO	BEECH	95-C55	F
3	1486N5141Y	053064 CLEVELAND OHIO	PIPER	PA23	N
3	1521N6604U	061766 HOPEWELL OHIO	MOONEY	MK20C	N
3	1785N350RX	062364 BLUE ASH OHIO	CESSNA	310H	N
3	2485N218X	072167 VANDALIA,OHIO	BEECH	H18	N
3	2405N8999E	081765 CLEVELAND OHIO	BEECHCRAFT	D-18S	M
2	0764N3646B	083166 FREMONT OHIO	BEECH	E18S	N
3	3410N120BB	110564 WILMINGTON OHIO	PIPER	PA23	N
3	4127N9646R	122166 NAPOLEON OHIO	BEECH	B95	N
3	0931N3765B	032267 TULSA, OKLA	BEECH	E18S	N
3	1124N4196B	032866 MUSKOGEE OKLA	AERO COMDR	520	N
3	1183N7670Y	041865 OKLAHOMA CITY OKL	PIPER	PA-30	N
2	0244N5104D	012765 UNITY OREG	CESSNA	182	F
3	4532N831Q	090967 WARRENTON,OREG	BEECH	65	N
3	0099N3095D	012368 ERIE,PA	CESSNA	310	N
3	0399N5121Y	021864 READING PA	PIPER	PA23	M
2	0193N5482Y	041565 MILLVILLE PA	PIPER	PA-23	F
3	1823N406VM	061268 AMBLER,PA-	CESSNA	411	N
3	2757N286GB	092165 ALLENTOWN PA	PIPER	PA-23	N
3	3472N84D	093067 SELINGSGROVE,PA	BEECH	H18	N
3	3249N8727M	101864 CLARK SUMMITS PA	BEECHCRAFT	23	N
3	3542N219Y	102766 REEDSVILLE PA	BEECHCRAFT	E18S	N
3	3900N810S	111866 EASTON PA	CESSNA	320B	N

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2	1009N6231D	121167 SEVEN SPRINGS,PA	AERO COMDR	560E	F
3	4437N2214Z	122066 ERIE,PA	CESSNA	411	N
3	0751N216P	021068 COLUMBIA,SC	BEECH	65	N
3	4841N199H	021768 CAYCE,SC	BEECH	TC 45G	N
3	2244N1209	072864 ABERDEEN S DAK	BEECHCRAFT	D18S	N
3	4535N957T	100868 HETLAND,S DAK	BEECH	N35	F
3	0387N3830C	012864 NASHVILLE TENN	AERO COMM	500	M
3	0488N1133C	022864 NASHVILLE TENN	AERO COMM	560E	N
2	0376N110WB	032164NKNOXVILLE TENN	BEECHCRAFT	E18S	F
3	0734N3212R	040868 MEMPHIS,TENN	CESSNA	411	N
3	1760N9612Y	052867 MEMPHIS,TENN	BEECH	D50E	N
3	1498N80492	053164 MEMPHIS TENN	BEECHCRAFT	D-18S	N
3	1517N1797H	060264 LEXINGTON TENN	CESSNA	310C	N
3	2733N9019Y	080167 MILLINGTON,TENN.	PIPER	PA-31	N
3	2894N6811Q	091364 SEWARD AFB TENN	BEECHCRAFT	65-80	N
3	3415N5100Y	100167 NASHVILLE,TENN	PIPER	PA-23	N
2	0954N3799B	102964 SHELBYVILLE TENN	BEECHCRAFT	C-50	F
3	3534N177G	112164 KNOXVILLE TENN	BEECHCRAFT	H18	N
2	0011N146X	010567 PORT LAVACA,TEX	BEECH	95-B55	F
3	0040N400V	010567 EL PASO,TEX	BEECH	65-A90	N
3	0039N9589B	010865 GRANBURY TEX	CESSNA	180	N
3	0105N9490S	011168 HOUSTON,TEX	BEECH	95-C55	N
3	2919N4957T	013067 EL PASO,TEX	CESSNA	411	N
2	0120N7388	021067 DALLAS,TEX	BEECH	D18S	F
3	0552N2904R	022168 CARRIZO SPGS,TEX	CESSNA	310G	N
2	0051N1128Q	030364N LAKE JACKSON TEX	CESSNA	310H	F

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
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IN STATE AND DATE SEQUENCE

3 0795N87Q	030465 EL PASO TEX	BEEHCRAFT	D-18S	N
3 0775N8047M	031964 SAN ANTONIO TEX	CESSNA	310I	N
3 0958N827Q	032567 TERMINAL, TEX	BEECH	65	N
3 0783N5305Y	040164 AMARILLO TEX	PIPER	PA23	N
3 0793N332PC	040466 MARFA TEX	LEAR	23	N
3 1108N5440Y	041665 LA PRYOR TEX	PIPER	PA-23	N
3 1243N828LS	041965 HOUSTON TEX	BEEHCRAFT	H-18	N
3 1182N2603	050268 HOUSTON, TEX	CESSNA	180A	N
3 1171N4367P	050564 ABILENE TEX	PIPER	PA23	N
2 0415N189L	051166 HOUSTON TEX	BEECH	D18S	F
3 1669N531U	052367 HOUSTON, TEX	BEECH	95-C55	N
3 1648N342N	061068 GARLAND, TEX	BEECH	65	M
3 2473N224W	071968 PARIS, TEX	AERO COMDR	680-FL	F
3 2028N1705C	072265 KEENE TEX	CESSNA	180	N
3 2115N6262X	080166 DIMMIT TEX	AERO COMDR	500-A	N
3 2856N252LD	080468 KENNARD, TEX	AERO COMDR	500-B	N
2 1000N3831C	092767 DALLAS, TEX	AERO COMDR	560E	F
3 4253N2219F	100868 AUSTIN, TEX	CESSNA	310L	F
3 3046N4183B	101665 MIDLAND TEX	AERO CMDR	520	N
3 3810N9836L	112966 ALIEF TEX	CESSNA	320B	N
3 4212N6149X	120468 AMARILLO, TEX	AERO COMDR	680-F	N
3 3821N413TB	121864 BOERNE TEX	BEEHCRAFT	C45H	N
3 0124N4966B	011564 MOAB UT	BEEHCRAFT	E18S	N
2 0157N5645D	030564 DELTA UTAH	BEEHCRAFT	E18S	F
3 2004N172S	031968 WESTON, VT	BEECH	G18S	F
3 2868N3310	070868 BURLINGTON, VT	CESSNA	310	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
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IN STATE AND DATE SEQUENCE

3 4589N5691Y	121867 WINOOSKI, VT	PIPER	PA-23	N
3 0200N80CG	013066 NEWPORT NEWS VA	BEECHCRAFT	H18	N
3 0747N179L	033166 ROANOKE VA	BEECH	D-18S	N
3 2056N6908R	080668 CHESAPEAKE, VA	CESSNA	T-210H	F
3 4901 N9054Y	100368 FREDERICKSBURG, VA	PIPER	PA-31	N
3 3762N348E	102468 HOPEWELL, VA	CESSNA	401	C
3 3829N7986C	110568 BAILEY CROSRDS, VAN	AMERICAN	SNJ-5	N
3 4650N5943Y	111868 CHARLOTTESVLE, VA	PIPER	PA-23	F
3 3267N7048Y	102064 EVERETT WASH	PIPER	PA30	N
2 0250N844K	031065NBRIDGEPORT W VA	BEECHCRAFT	E-18S	F
3 0568N6231D	040165 WILEY FORD W VA	AERO CMDR	560E	N
3 1984N1174Z	053067 SUMMERVILLE, W VA	AERO COMDR	680F	N
3 1981N6363F	072366 N. CUMBERLAND W VA	CESSNA	337	N
3 4066N9711	120266 WHEELING W VA	BEECH	G18S	N
3 4677N9470T	122767 GASSAWAY, W VA	CESSNA	210	N
3 1169N314Q	041367 RHINELANDER, WIS	BEECH	65-A80	M
3 1987N222YW	072566 RACINE WIS	CESSNA	310H	N
3 4503N5814X	120668 APPLETON, WIS	CESSNA	310F	N
2 1109N390R	121067 MADISON, WIS	BEECH	H18	F
3 0143N3189Y	012067 CASPER, WYO	CESSNA	182E	N
3 2192N827T	041267 ALCOVA, WYO	BEECH	65-90	N
3 0817N911Y	050565 ROCK SPRINGS WYO	BEECHCRAFT	95	N
3 3720N5347A	120165 WASHINGTON DC	CESSNA	310B	N
3 1688N351RR	050366 ARECIBO PR	BEECH	95-855	N
6 0099N505N	100567 SASKATCHEWAN, CAN	BEECH	C-45G	F
6 0045N1940S	041268 LORETO, MEX	LOCKHEED	18	N
6 0131N1391Z	110267 CORN IS, NICARAGUA	BEECH	95-55	N
6 0048 N4053Y	070566 BENGHAZI, LIBYA	CESSNA	185A	N
6 0088 N1848H	111664 TABRUK, SAUDIA ARABIA	CESSNA	310	N

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
GROUND-WATER LOOP-SWERVE			2	31	33	33	9.71
DRAGGED WINGTIP, POD, OR FLOA				1	1	1	.29
WHEELS-UP LANDING				60	60	60	17.65
WHEELS-DOWN LANDING IN WATER			1		1	1	.29
GEAR COLLAPSED				22	22	22	6.47
GEAR RETRACTED	1			31	32	32	9.41
HARD LANDING			1	10	11	11	3.24
NOSE OVER/DOWN			1	3	4	4	1.18
ROLL OVER							
OVERSHOOT		1		18	19	19	5.59
UNDERSHOOT	3		2	6	11	11	3.24
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT	2			2	4	4	1.18
ONE AIRBORNE							
BOTH ON GROUND				3	3	3	.88
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	5	2		1	8	8	2.35
UNCONTROLLED	5	1			6	6	1.76
<u>COLLIDED WITH</u>							
WIRES/POLES	1				1	1	.29
TREES	5	1		2	8	8	2.35
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS				2	2	2	.59
ELECTRONIC TOWERS	1				1	1	.29
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD				1	1	1	.29
ANIMALS				2	2	2	.59
CRDP							
FLAGMAN LOADER							
DITCHES				1	1	1	.29
SNOWBANK				6	6	6	1.76
PARKED AIRCRAFT				1	1	1	.29
AUTOMOBILE				2	2	2	.59

FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
DIRT BANK				1	1	1	.29
OBJECT				9	9	9	2.65
BIRD STRIKE	1		1	5	7	7	2.06
<u>STALL</u>	2	1			3	3	.88
SPIN							
SPIRAL							
MUSH			1	3	4	4	1.18
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT				3	3	3	.88
ON GROUND				6	6	6	1.76
<u>AIRFRAME FAILURE</u>							
IN FLIGHT	4		1	1	6	6	1.76
ON GROUND				1	1	1	.29
ENGINE TEARAWAY				1	1	1	.29
ENGINE FAILURE OR MALFUNCTION	8	2	5	24	39	39	11.47
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER	1			4	5	5	1.47
TAIL ROTOR							
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P	1	2			3	3	.88
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST				1	1	1	.29
TURBULENCE				2	2	2	.59
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEOUS/OTHER			1	6	7	7	2.06
UNDETERMINED	2				2	2	.59
RECORDS	42	10	16	272	340		
ACCIDENTS	42	10	16	272		340	
PERCENT	12.4	2.9	4.7	80.0			

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
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AIRCRAFT DAMAGE

FIRST TYPE OF ACCIDENT

DESTROYED
 SUBSTANTIAL
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

FIRST TYPE OF ACCIDENT	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
GROUND-WATER LOOP-SWERVE	1	32			33	33	9.71
DROGGED WINGTIP, POD, OR FLOA		1			1	1	.29
WHEELS-UP LANDING		60			60	60	17.65
WHEELS-DOWN LANDING IN WATER		1			1	1	.29
GEAR COLLAPSED		22			22	22	6.47
GEAR RETRACTED	1	31			32	32	9.41
HARD LANDING		11			11	11	3.24
NOSE OVER/DOWN		4			4	4	1.18
ROLL OVER							
OVERSHOOT	1	18			19	19	5.59
UNDERSHOOT	3	8			11	11	3.24
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT	2	1	1		4	4	1.18
ONE AIRBORNE							
BOTH ON GROUND		3			3	3	.88
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	6	2			8	8	2.35
UNCONTROLLED	5	1			6	6	1.76
<u>COLLIDED WITH</u>							
WIRES/POLES	1				1	1	.29
TREES	6	2			8	8	2.35
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS		2			2	2	.59
ELECTRONIC TOWERS	1				1	1	.29
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD		1			1	1	.29
ANIMALS		2			2	2	.59
CROP							
FLAGMAN LOADER							
DITCHES		1			1	1	.29
SNOWBANK		6			6	6	1.76
PARKED AIRCRAFT		1			1	1	.29
AUTOMOBILE		2			2	2	.59

AIRCRAFT DAMAGE

<u>FIRST TYPE OF ACCIDENT</u>	<u>AIRCRAFT DAMAGE</u>				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
DIRT BANK	1				1	1	.29
OBJECT		9			9	9	2.65
BIRD STRIKE	1	6			7	7	2.06
<u>STALL</u>	3				3	3	.88
SPIN							
SPIRAL							
MUSH	1	3			4	4	1.18
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT		3			3	3	.88
ON GROUND	1	5			6	6	1.76
<u>AIRFRAME FAILURE</u>							
IN FLIGHT	4	2			6	6	1.76
ON GROUND		1			1	1	.29
ENGINE TEARAWAY		1			1	1	.29
ENGINE FAILURE OR MALFUNCTION	13	26			39	39	11.47
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER	1	4			5	5	1.47
TAIL ROTOR							
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P			2	1	3	3	.88
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST		1			1	1	.29
TURBULENCE		2			2	2	.59
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEOUS/OTHER		7			7	7	2.06
UNDETERMINED	2				2	2	.59
RECORDS	53	283	3	1	340		
ACCIDENTS	53	283	3	1		340	
PERCENT	15.6	83.2	.9	.3			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

FIRST OPERATIONAL PHASE

FATAL
 SERIOUS
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

STATIC

STARTING ENGINE/S			2		2	.59
IDLING ENGINE/S	1	2	5		8	2.35
ENGINE RUNUP			1		1	.29
IDLING ROTORS						
PARKED-ENGINES NOT OPERATING						
OTHER						

TAXI

TO TAKEOFF			13		13	3.82
FROM LANDING			13		13	3.82
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	1		1	11	13	13	3.82
INITIAL CLIMB	1	2	2	19	24	24	7.06
VERTICAL							
RUNNING							
ABORTED			2		2	2	.59
ABORTED							
ABORTED							
OTHER							

INFLIGHT

CLIMB TO CRUISE	3	1			4	4	1.18
NORMAL CRUISE	14	2	4	19	39	39	11.47
DESCENDING				5	5	5	1.47
HOLOING			1		1	1	.29
HOVERING							
POWER-ON DESCENT							
AUTOROTATIVE DESCENT							

INJURY INDEX

<u>FIRST OPERATIONAL PHASE</u>	<u>INJURY INDEX</u>				RECDRDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	5				5	5	1.47
EMERGENCY DESCENT							
LOW PASS	1				1	1	.29
OTHER	4				4	4	1.18
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	2	1	1		4	4	1.18
FINAL APPROACH	3	1	3	9	16	16	4.71
INITIAL APPROACH	2			2	4	4	1.18
FINAL APPROACH	4	2		1	7	7	2.06
LEVEL OFF/TOUCHDOWN			2	86	88	88	25.88
ROLL			2	82	84	84	24.71
ROLL-ON/RUN-DN							
POWER-ON LANDING							
POWER-OFF AUTOROTATIVE LANDIN							
GO-AROUND							
MISSED APPROACH							
OTHER				1	1	1	.29
UNKNOWN/NOT REPORTED	1				1	1	.29
RECORDS	42	10	16	272	340		
ACCIDENTS	42	10	16	272		340	
PERCENT	12.4	2.9	4.7	80.0			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST OPERATIONAL PHASE	AIRCRAFT DAMAGE			RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR NONE			
<u>STATIC</u>						
STARTING ENGINE/S	2			2	2	.59
IDLING ENGINE/S	5	2	1	8	8	2.35
ENGINE RUNUP	1			1	1	.29
IDLING ROTORS						
PARKED-ENGINES NOT OPERATING						
OTHER						
<u>TAXI</u>						
TO TAKEOFF	13			13	13	3.82
FROM LANDING	13			13	13	3.82
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	2	11		13	13	3.82
INITIAL CLIMB	5	19		24	24	7.06
VERTICAL						
RUNNING						
ABORTED		2		2	2	.59
ABORTED						
ABORTED						
OTHER						
<u>INFLIGHT</u>						
CLIMB TO CRUISE	4			4	4	1.18
NORMAL CRUISE	15	23	1	39	39	11.47
DESCENDING		5		5	5	1.47
HOLDING		1		1	1	.29
HOVERING						
POWER-ON DESCENT						
AUTOROTATIVE DESCENT						

AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE

DESTROYED
SUBSTANTIAL
MINOR
NONE

RECORDS ACCIDENTS PERCENT

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	5				5	5	1.47
EMERGENCY DESCENT							
LOW PASS	1				1	1	.29
OTHER	4				4	4	1.10
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	2	2			4	4	1.18
FINAL APPROACH	5	11			16	16	4.71
INITIAL APPROACH	2	2			4	4	1.18
FINAL APPROACH	6	1			7	7	2.06
LEVEL OFF/TOUCHDOWN		88			88	88	25.88
ROLL		84			84	84	24.71
ROLL-ON/RUN-ON							
POWER-ON LANDING							
POWER-OFF AUTOROTATIVE LANDING							
GO-AROUND							
MISSED APPROACH							
OTHER		1			1	1	.29
UNKNOWN/NOT REPORTED	1				1	1	.29
RECORDS	53	283	3	1	340		
ACCIDENTS	53	283	3	1		340	
PERCENT	15.6	83.2	.9	.3			

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
SMALL FIXED WING AIRCRAFT
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 340 TOTAL ACCIDENTS
INVOLVES 42 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	27	4	29	164	10	164	191	14	193
	64.29	9.52	69.05	55.03	3.36	55.03	56.18	4.12	56.76
PERSONNEL	3	1	4	49	2	51	52	3	55
	7.14	2.38	9.52	16.44	.67	17.11	15.29	.88	16.18
ATFRAME	4		4	2	2	4	6	2	8
	9.52	.00	9.52	.67	.67	1.34	1.76	.59	2.35
LANDING GEAR			.00	66	6	72	66	6	72
	.00	.00	.00	22.15	2.01	24.16	19.41	1.76	21.18
POWERPLANT	4		4	29	3	31	33	3	35
	9.52	.00	9.52	9.73	1.01	10.40	9.71	.88	10.29
SYSTEMS			.00	11	1	12	11	1	12
	.00	.00	.00	3.69	.34	4.03	3.24	.29	3.53
INSTRUMENTS/EQUIPMENT AND ACCESSORIES		2	2			.00		2	2
	.00	4.76	4.76	.00	.00	.00	.00	.59	.59
ROTORCRAFT			.00			.00		.00	.00
AIRPORTS/AIRWAYS/FACILITIES			.00	13	24	37	13	24	37
	.00	.00	.00	4.36	8.05	12.42	3.82	7.06	10.88
WEATHER	6	20	26	11	23	33	17	43	59
	14.29	47.62	61.90	3.69	7.72	11.07	5.00	12.65	17.35
TERRAIN		2	2	5	4	9	5	6	11
	.00	4.76	4.76	1.68	1.34	3.02	1.47	1.76	3.24
MISCELLANEOUS	2		2	14	1	15	16	1	17
	4.76	.00	4.76	4.70	.34	5.03	4.71	.29	5.00
UNDETERMINED	5		5	6		6	11		11
	11.90	.00	11.90	2.01	.00	2.01	3.24	.00	3.24

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
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INVOLVES 340 TOTAL ACCIDENTS
 INVOLVES 42 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT		3	3					3	3
BECAME LOST/DISORIENTED	2		2				2		2
CONTINUED VFR FLIGHT INTO ADVERSE WEATHER CONDITIONS	9		9	1	1	10	10		10
CONTINUED INTO KNOWN AREA OF SEVERE TURBULENCE				1	1	1	1		1
DELAYED ACTION IN ABORTING TAKEOFF				1	1	1	1		1
DELAYED IN INITIATING GO-AROUND				1	1	1	1		1
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT	1		1	4	1	5	5	1	6
EXCEEDED DESIGN STRESS LIMITS OF AIRCRAFT	1		1				1		1
FAILED TO EXTEND LANDING GEAR				17		17	17		17
FAILED TO RETRACT LANDING GEAR				1	1	1	1		1
RETRACTED GEAR PREMATURELY	1		1	1	1	2	2		2
INADVERTENTLY RETRACTED GEAR				14		14	14		14
FAILED TO SEE AND AVOID OTHER AIRCRAFT	1	1	2	4	4	5	5		5
FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS	1	1	2	6	6	7	7		7
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	3		3	5	5	8	8		8
MISJUDGED, SPEED, ALTITUDE OR CLEARANCE				1	1	1	1		1
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT				1	1	1	1		1
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC				1	2	3	3	2	3
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS	2		2	6	6	8	8		8
IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS				6	6	6	6		6
IMPROPER OPERATION OF FLIGHT CONTROLS				2	2	2	2		2
PREMATURE LIFT OFF				2	2	2	2		2
IMPROPER LEVEL OFF				13	13	13	13		13
IMPROPER IFR OPERATION	7		7	3	3	10	10		10
IMPROPER IN-FLIGHT DECISIONS OR PLANNING	1	1	2	3	3	4	4		4
IMPROPER COMPENSATION FOR WIND CONDITIONS				1	1	1	1	1	1
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING	4	4	8	9	1	10	13	1	14
INADEQUATE SUPERVISION OF FLIGHT	1	1	2	1	1	2	2		2
LACK OF FAMILIARITY WITH AIRCRAFT				3	3	3	3	3	3
MISMANAGEMENT OF FUEL	3	3	6	1	1	4	4		4
EXERCISED POOR JUDGMENT	2	2	4	5	5	7	7		7
SELECTED UNSUITABLE TERRAIN				10	10	10	10		10
FAILED TO ASSURE THE GEAR WAS DOWN AND LOCKED				15	15	15	15		15
SPONTANEOUS-IMPROPER ACTION				2	2	2	2		2
MISJUDGED DISTANCE, SPEED, AND ALTITUDE				3	3	3	3		3
MISJUDGED DISTANCE AND SPEED				14	14	14	14		14
MISJUDGED DISTANCE				1	1	1	1		1
MISJUDGED DISTANCE AND ALTITUDE	1	1	2	5	5	6	6		6
MISJUDGED SPEED				1	1	1	1		1
MISJUDGED ALTITUDE				2	2	2	2		2
MISJUDGED CLEARANCE				2	2	2	2		2
IMPROPER RECOVERY FROM BOUNCED LANDING				1	1	1	1		1
INCAPACITATION		1	1					1	1
PHYSICAL IMPAIRMENT				1	1	1	1		1
SPATIAL DISORIENTATION				1	1	2	2		2
MISUSED OR FAILED TO USE FLAPS	1	1	2	1	1	1	1	1	2
FAILED TO MAINTAIN DIRECTIONAL CONTROL				10	1	10	10	1	10
SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND				2	2	2	2		2
FAILED TO ABORT TAKEOFF	1	1	2				1		1
FAILED TO INITIATE GO-AROUND				6	1	7	6	1	7
DIRECT ENTRIES	1	1	2				1		1
SUBTOTAL	43	4	47	186	10	196	229	14	243
COPILLOT									
INADVERTENTLY RETRACTED GEAR				2	2	2	2		2
FAILED TO OBTAIN/MAINTAIN FLYING SPEED				1	1	1	1		1
LACK OF FAMILIARITY WITH AIRCRAFT				1	1	1	1		1
MISMANAGEMENT OF FUEL	1	1	2				1		1

CAUSE/FACTOR TABLE

COPILOT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
OPERATED CARELESSLY				2		2	2		2
SUBTOTAL	1		1	6		6	7		7
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
IMPROPER MAINTENANCE (MAINTENANCE PERSONNEL)				14		14	14		14
IMPROPERLY SERVICED AIRCRAFT (GROUND CREW)				3		3	3		3
INADEQUATE INSPECTION OF AIRCRAFT (MAINTENANCE PERSONNEL)				10		10	10		10
INADEQUATE MAINTENANCE AND INSPECTION				14	2	16	14	2	16
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
INCORRECT WEATHER FORECAST		1	1	1		1	1	1	2
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
FAILURE TO NOTIFY OF UNSAFE CONDITION				3		3	3		3
IMPROPER/INADEQUATE SNOW REMOVAL				2		2	2		2
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN									
SUBSTANDARD QUALITY CONTROL	1		1				1		1
INCORRECT FACTORY INSTALLATION				1		1	1		1
POOR/INADEQUATE DESIGN				2		2	2		2
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT	1		1	4		4	5		5
GROUND SIGNALMAN				1		1	1		1
PASSENGER	1		1	1		1	2		2
DRIVER OF VEHICLE				2		2	2		2
DIRECT ENTRIES				3		3	3		3
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	3	1	4	61	2	63	64	3	67
** AIRFRAME **									
WINGS									
SPARS	3		3		1	1	3	1	4
OTHER	1		1				1		1
FUSELAGE									
DOORS, DOOR FRAMES				1		1	1		1
WHEEL WELL DOORS				1	1	2	1	1	2
LANDING GEAR									
MAIN GEAR-SHOCK ABSORBING ASSY, STRUTS, ATTACHMENTS, ETC				2		2	2		2
NORMAL RETRACTION/EXTENSION ASSEMBLY				26	1	27	26	1	27
EMERGENCY/EXTENSION ASSEMBLY				8		8	8		8
TAILWHEEL ASSEMBLIES				4		4	4		4
NOSEWHEEL ASSEMBLIES				17	1	18	17	1	18
WHEELS, TIRES, AXLES				3		3	3		3
BRAKING SYSTEM (NORMAL)				7		7	7		7
LANDING GEAR WARNING AND INDICATING COMPONENTS				1	4	5	1	4	5
GEAR LOCKING MECHANISM				8		8	8		8
SWITCHES, LEVERS, CRANKING MECHANISM, ETC				3		3	3		3
NOSEWHEEL STEERING				1		1	1		1
DIRECT ENTRIES				5		5	5		5
FLIGHT CONTROL SURFACES									
SUBTOTAL	4		4	87	8	95	91	8	99
** POWERPLANT **									
ENGINE STRUCTURE									
CRANKSHAFT				2		2	2		2
CYLINDER ASSEMBLY				1		1	1		1
PISTON, PISTON RINGS				2		2	2		2
MOUNT AND VIBRATION ISOLATORS					1	1		1	1
IGNITION SYSTEM									
FUEL SYSTEM									
TANKS				1		1	1		1
LINES AND FITTINGS				6		6	6		6

CAUSE/FACTOR TABLE

POWERPLANT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
PUMPS				1		1	1		1
VENTS, DRAINS, TANK CAPS				2	1	3	2	1	3
LUBRICATING SYSTEM									
LINES, HOSES, FITTINGS				2		2	2		2
SEALS AND GASKETS				1		1	1		1
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
BLADES	1		1	3		3	4		4
HUBS				1		1	1		1
BLADE RETENTION MECHANISM				1		1	1		1
EXHAUST SYSTEM									
ENGINE ACCESSORIES									
VACUUM PUMPS	1		1				1		1
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
FUEL QUANTITY GAUGE					1	1		1	1
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS	2		2	3		3	5		5
DIRECT ENTRIES	1		1	2		2	3		3
REDUCTION GEAR ASSEMBLY									
GEARS, ACCESSORY DRIVE				1		1	1		1
COMPRESSOR ASSEMBLY									
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
GOVERNOR				1		1	1		1
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL	5		5	30	3	33	35	3	38
** SYSTEMS **									
ELECTRICAL SYSTEM									
RELAYS AND WIRING				2		2	2		2
MOTORS				1		1	1		1
HYDRAULIC SYSTEM									
HYDRAULIC PUMPS				1		1	1		1
RESERVOIR, LINES, FITTINGS				3		3	3		3
RELIEF VALVE				1		1	1		1
BY-PASS VALVE				1		1	1		1
OTHER				1		1	1		1
FLIGHT CONTROL SYSTEMS									
ANTI-ICING, DE-ICING SYSTEMS									
AIR CONDITION, HEATING AND PRESSURIZATION									
OTHER									
AUTO PILOT				1		1	1		1
SERVO									
FIRE WARNING SYSTEM					1	1		1	1
FIRE EXTINGUISHER SYSTEM									
OXYGEN SYSTEM									
OTHER SYSTEMS									
SUBTOTAL				11	1	12	11	1	12
** INSTRUMENTS/EQUIPMENT AND ACCESSORIES **									
FLIGHT AND NAVIGATION INSTRUMENTS									
DIRECTIONAL GYRO				1		1		1	1

CAUSE/FACTOR TABLE

INSTRUMENTS/EQUIPMENT AND ACCESSORIES (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
COMMUNICATIONS AND NAVIGATION EQUIPMENT									
ILS RECEIVERS		1	1					1	1
MISCELLANEOUS EQUIPMENT									
SUBTOTAL		2	2					2	2
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									
AIRPORT CONDITIONS									
WET RUNWAY				1	5	6	1	5	6
ICE/SLUSH ON RUNWAY				2	7	9	2	7	9
SNOW ON RUNWAY				4	8	12	4	8	12
SNOW WINDROWS				1		1	1		1
UNMARKED OBSTRUCTIONS				2	1	3	2	1	3
HIDDEN HAZARD				2	1	3	2	1	3
POORLY MAINTAINED RUNWAY SURFACE					1	1		1	1
SOFT RUNWAY				1		1	1		1
ICE/SLUSH ON RAMP/TAXIWAY					1	1		1	1
SOFT SHOULDERS (RAMP/TAXIWAY)					1	1		1	1
POORLY MAINTAINED RAMP/TAXIWAY SURFACE				1		1	1		1
OTHER				1	3	4	1	3	4
AIRWAYS FACILITIES									
SUBTOTAL				15	28	43	15	28	43
** WEATHER **									
LOW CEILING	1	15	16	1	5	6	2	20	22
RAIN		7	7	2	3	5	2	10	12
FOG	2	11	13	1	3	4	3	14	17
SNOW		2	2	1	3	4	1	5	6
ICING CONDITIONS—INCLUDES SLEET, FREEZING RAIN, ETC	1	4	5	2	1	3	3	5	8
CONDITIONS CONDUCTIVE TO CARB/INDUCTION SYSTEM ICING	2	2	4	2	2	4	4	4	8
UNFAVORABLE WIND CONDITIONS	1		1	3	7	10	4	7	11
TURBULENCE, ASSOCIATED W/CLOUDS, THUNDERSTORMS	1	2	3				1	2	3
DOWNDRAFTS, UPDRAFTS		2	2	1	2	3	1	4	5
OBSTRUCTIONS TO VISION				1	3	4	1	3	4
HIGH DENSITY ALTITUDE					1	1		1	1
THUNDERSTORM ACTIVITY		2	2	1		1	1	2	3
OTHER					1	1		1	1
SUBTOTAL	8	47	55	15	31	46	23	78	101
** TERRAIN **									
WET, SOFT GROUND				2	2	4	2	2	4
HIDDEN OBSTRUCTIONS				1		1	1		1
ROUGH/UNEVEN		1	1	2	1	3	2	2	4
HIGH OBSTRUCTIONS		1	1		1	1		2	2
SUBTOTAL		2	2	5	4	9	5	6	11
** MISCELLANEOUS **									
BIRD COLLISION	1		1	6		6	7		7
VORTEX TURBULENCE				2		2	2		2
EVASIVE MANEUVER TO AVOID COLLISION				1		1	1		1
FOREIGN MATERIAL AFFECTING NORMAL OPERATIONS				1	1	2	1	1	2
UNDETERMINED	5		5	6		6	11		11
DIRECT ENTRIES	1		1	4		4	5		5
SUBTOTAL	7		7	20	1	21	27	1	28
GRAND TOTAL	71	56	127	436	88	524	507	144	651
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP—INPROPER OPER. OF/FAILED TO USE	2		2	4		4	6		6
CHECKLIST—FAILED TO USE				1	9	10	1	9	10

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
DISREGARD OF GOOD OPERATING PRACTICE	1		1				1		1
IMPROPER EMERGENCY PROCEDURES	1	1	2	4	2	6	5	3	8
FEATHERED WRONG ENGINE				1		1	1		1
NOT ALLIGNED WITH RUNWAY/INTENDED LANDING AREA				3	1	4	3	1	4
INATTENTIVE TO FUEL SUPPLY	3		3				3		3
POORLY PLANNED APPROACH				2	1	3	2	1	3
LANDED ON FOAMED RUNWAY					7	7		7	7
IMPROPERLY SECURED				3		3	3		3
EXPLOSIVE DECOMPRESSION					1	1		1	1
FATIGUE FRACTURE						13			13
HYDRAULIC FAILURE	4		4	13		13	17		17
WINDSHIELD, DIRTY, FOGGY, ETC-RESTRICTED VISION				1		1	1		1
WRONG PART				2	1	3	2	1	3
IMPROPER ALIGNMENT/ADJUSTMENT				1		1	1		1
FAILURE OF TWO OR MORE ENGINES				6		6	6		6
SEPARATION IN FLIGHT		3	3	2	4	6	2	7	9
FIRE IN CABIN/ COCKPIT/ BAGGAGE COMPARTMENT		3	3	1	4	5	1	7	8
FIRE IN ENGINE				1	1	2	1	1	2
FIRE IN BRAKES/ WHEEL ASSEMBLY/ WHEEL WELL				4	3	7	4	3	7
ASYMETRICAL FLAPS				1		1	1		1
FUEL EXHAUSTION					1	1		1	1
ICE-ENGINE				6		6	6		6
ICE-CARBURETOR				2		2	2		2
AIRFRAME ICE	1		1	3		3	4		4
ICE-WINDSHIELD				2		2	2		2
WATER IN FUEL				3		3	3		3
AIRCRAFT CAME TO REST IN WATER				1		1	1		1
MISSING		6	6		1	1		7	7
HYDROPLANING ON WET RUNWAY				1	1	2	1	1	2
OVERLOAD FAILURE	1		1	2		2	2		2
MATERIAL FAILURE				3	41	44	4	41	45
FUEL STARVATION	3		3	38	3	41	38	3	41
IMPROPER CLEARANCE-TOLERANCE				2		2	5		5
FUEL SELECTOR POSITIONED BETWEEN TANKS	1		1		1	1		1	1
UNAPPROVED MODIFICATION				1		1	1		1
IMPROPER/INADEQUATE VENTING				1		1	1		1
PREVIOUS DAMAGE				5	3	8	5	3	8
LEAK/LEAKAGE				2	2	4	2	2	4
LOW FLUID LEVEL					1	1		1	1
CIRCUIT BREAKER POPPED					3	3		3	3
DOWNWIND					7	7		7	7
OVER TORQUED				1		1			1
LOOSE, PART/FITTING				1	1	2	1	1	2
BENT				1		1	1		1
BINDING					1	1		1	1
BURST				1		1	1		1
BURNED				1		1	1		1
CHAFFED				1		1	1		1
CROSSED				1		1	1		1
DISCONNECTED				1	1	2	1	1	2
ERRATIC						1		2	2
IMPROPERLY INSTALLED		1	1	4	1	4	4	2	4
JAMMED				4	1	5	4	1	5
PRESSURE, NONE				2		2	2		2
VIBRATION, EXCESSIVE				1	1	2	1	1	2
INTENTIONAL WHEELS UP				1		1			1

DIRECT ENTRY CAUSES

PILOT-FLEW AT ALTITUDE BELOW OBSTRUCTING TERRAIN.
 MISC-LOSS OF INSTRUMENTS IN IFR-CAUSE UNKNOWN
 PERSONNEL-PAX INADVERTENTLY RELEASED EMERG EXIT.
 PERSONNEL-BLAST FROM 8707 BLEW GRAVEL INTO ACFT.
 PERSONNEL-PAX INADVERTENTLY RETRACTED GEAR.
 LOG GR-NO PROVISION FOR LUBRICATION OF TUBES.
 MISC-LOOSE CABLE ON GROUND PICKED UP BY PROPELLER.
 LOG GR-RIGHT GR LOOSE AT TRUNION, JAMMED IN WML WEL
 PWR PLY-ENGINES WOULDNT AIRSTART, REASON IS UNKNOWN
 PWR PLY-RIGHT ENG. AIR FILTER BOX BLOCKED BY SNOW.

CAUSE/FACTOR TABLE

DIRECT ENTRY CAUSES (CONTINUED)

LDC GR-RETRACTED FOR UNDETERMINED REASON
MISC-PASSENGER INADVERTENTLY RELEASED ESCAPE HATCH
MISC-ANTELOPE RAN ONTO RUNWAY.
LDC GR-RETRACTED FOR UNDETERMINED REASON.
PWR PLY-SEPARATION IN FLIGHT-CAUSE UNDETERMINED.
MISC-ODGS CHASED DEER ACROSS RUNWAY.
LDC GR-NOSE GR SHIMMY DAMPER JAMMED, FAILED NOSE GR

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

INJURIES, ACCIDENTS
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 SMALL FIXED WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

	INJURIES					TOTAL
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN	
PILOT	39	8	12	281		340
COPILOT	7	1	3	59		70
DUAL STUDENT			1			1
CHECK PILOT						
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT						
EXTRA CREW						
PASSENGERS	75	20	23	574	2	692
TOTAL	121	29	39	916		1105
* OTHER AIRCRAFT	3	2	2	10		13
OTHER GROUND				1		5
GRAND TOTAL	124	31	41	927		1123

INVOLVES 340 TOTAL ACCIDENTS
 INVOLVES 42 FATAL ACCIDENTS

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

SECTION III

LARGE

FIXED WING

AIRCRAFT

ACCIDENTS

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

2	0372N637E	080167	NORTHPORT, ALA	LOCKHEED	L-18	N
3	0808N7707C	012468	SITKA, ALAS	N.AMERICAN	B-25	N
2	0589N4829V	080364	GRANITE MT ALAS	FAIRCHILD	C82	N
2	0510N2010	052665	EL DORADO ARK	GRUMAN	G-159	N
3	2243N196KC	070168	FAYETTEVILLE, ARK	AERO COMDR	1121	F
2	0803N63440	030367	DAKDALE, CALIF	DOUGLAS	DC-3	N
2	0106N54370	032467	MERCED, CALIF	DOUGLAS	DC-3C	M
2	0624N739R	051467	NVENTURA, CALIF	N.AMERICAN	NA-265	F
3	2173N186X	061968	CANTIL, CALIF	CANADAIR	MK VI	N
2	0439N123H	070265	NSTOCKTON CALIF	DOUGLAS	DC-3	M
3	2125N8394H	070368	RESEDA, CALIF	DOUGLAS	A-26B	F
3	4632N148E	091368	N HOLLYWOOD, CALIF	AERO COMDR	1121A	F
2	0034N6321C	012465	DENVER COLO	DOUGLAS	DC-7	N
3	1080N67935	020968	MIAMI, FLA	CURTISS	WRTC-46	N
2	0111N95B	021966	W. PALM BEACH FLA	AERO COMDR	1121	N
2	1030N34C	022764	TALLAHASSEE FLA	GRUMMAN	G-159	N
2	1021N300N	030565	MIAMI FLA	LOCKHEED	L-18	F
2	0168N2954	032064	WEST PALM BC FLA	GRUMMAN	G73	N
2	0835N74858	102965	TALLAHASSEE, FLA.	CONVAIR	240D	N
2	0436N600R	041467	ROSEMONT, ILL	N.AMERICAN	NA-260	N
2	0942N52935	071766	PEORIA ILL	DOUGLAS	DC-3	N
2	1078N360J	110566	CHICAGO ILL	N.AMERICAN	NA-265	N
2	0914N339	111766	CHICAGO ILL	LOCKHEED	L-18	M
3	4791N919P	112668	CHICAGO, ILL	DOUGLAS	A-26B	M
2	0003N5114	010264	ANDERSON IND	LOCKHEED	18	N
2	0045N2947	022664	FRANKFORT IND	GRUMMAN	G73	N

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

3	2721N340	041568 VALPARAISO,IND	LOCKHEED	PV-1	N
2	0695N20M	051167 INDIANAPOLIS,IND	LOCKHEED	18	N
2	0861N355MJ	112366 EVANSVILLE IND	N.AMERICAN	265-40	N
2	0190N1135K	022466 DES MOINES IOWA	HAWKER-SDLYDH-125		C
2	0736N926G	081566 PADUCAH KY	HAWKER-SDLYDH-125		N
2	0931N363G	102066 PITTSFIELD MASS	GRUMMAN	G-159	N
2	0111N7260C	032865 LAUREL MISS	LOCKHEAD	PV-2	N
2	0352N1200M	050767 LINN CREEK,MO	DOUGLAS	DC-3	N
2	0560N42LZ	052765NSPRINGFIELD MO	LOCKHEED	L-18	N
2	0877N67907	091765NSCOTTSBLUFF,NEBR	DOUGLAS	A-26	F
3	4865N700M	123168 LINCOLN,NEBR	HAWKER-SDLYDH	125	N
3	2328N252R	082366 MORRISTOWN NJ	AERO CMDR	1121	N
2	0145N7004	041167 FLUSHING NY	GRUMMAN	G-159	N
3	3841N900JL	120568 WATERTOWN,NY	AERO COMDR	1121	N
3	3984N3032	121968 BUFFALO,NY	AERO COMDR	1121AC	N
2	0475N505C	061664 CHARLOTTE NC	LOCKHEED-GA1329		N
2	0696N84H	112464 VANDALIA OHIO	DOUGLAS	DC-3	N
2	0039N202R	012865 OKLAHOMA CTY OKLADOUGLAS		8-26	N
2	0311N910H	070667 TULSA,OKLA	DOUGLAS	A-26C	N
2	0050N77D	020267 WEST MIFFLIN,PA	HAWKER-SDLYDH125		N
2	0093N600N	030565 PHILIPSBORG PA	LOCKHEED	L-18	F
2	0388N205M	072567 NEW CUMBERLAND,PA	GRUMMAN	G-159	N
3	2445N2009	090668 AVOCA,PA	N.AMERICAN	NA-265	N
2	0805N505W	121564 FRANKLIN PA	VICKERS	VI745D	N
2	0362N298GB	050367 HURON,S DAK	GRUMMAN	G-73	C
3	4640N27W	050468NBRUNI,TEX	FAIRCHILD	F-27J	F

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

2	0587N500M	070865	SAN ANTONIO TEX	DOUGLAS	A-26B	M
2	1004N507WB	120665	SAN ANTONIO,TEX	DOUGLAS	A-26	N
2	0062N100V	031564	BURLINGTON VT	LOCKHEED	18	N
2	1066N908LN	122866	RICHMOND VA	GRUMMAN	G-159	N
3	0775N1846	031368	PARKERSBURG, W VA	M. DESSAULT	FALCON	F
2	0026N168H	021865	WASHINGTON DC	NO AMERICAN	265A	N
2	0937N809F	110767	WASHINGTON, DC	SUDAVIATION	DA20	N
2	1087N92877	040566		ZN. AMERICAN	B-25	F
6	0007N1940S	041168	LORETO, BAJA, MEX	LOCKHEED	18	N
6	0062N74139	060768	TAMPICO, MEX	DOUGLAS	DC3A	M
6	0060N28343	081766	MERIDA MEX	DOUGLAS	DC-3	N
6	0126N1309V	091367	KINGSTON, JAMAICA	CURTISS-WRTC	-46F	N
6	0096N171Q	111264	FREEPORT BAHAMAS	LOCKHEED	L-18	F
6	0031N60G	121268	FREEPORT, BAHAMAS	LOCKHEED	18	N
2	0718N4726V	032864	NORTH PACIFIC OCND	DOUGLAS	DC-4	F

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

<u>FIRST TYPE OF ACCIDENT</u>	<u>FATAL</u>	<u>SERIOUS</u>	<u>MINOR</u>	<u>NONE</u>	RECORDS	ACCIDENTS	PERCENT
GROUND-WATER LOOP-SWERVE		1	6		7	7	10.45
DRAGGED WINGTIP, POD, OR FLOA			1		1	1	1.49
WHEELS-UP LANDING			4		4	4	5.97
WHEELS-DOWN LANDING IN WATER							
GEAR COLLAPSED			2		2	2	2.99
GEAR RETRACTED		1	7		8	8	11.94
HARD LANDING							
NOSE OVER/DOWN							
ROLL OVER							
OVERSHOOT		2	5		7	7	10.45
UNDERSHOOT			6		6	6	8.96
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT	1				1	1	1.49
ONE AIRBORNE							
BOTH ON GROUND							
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED							
UNCONTROLLED	2				2	2	2.99
<u>COLLIDED WITH</u>							
WIRES/POLES							
TREES							
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS							
ELECTRONIC TOWERS							
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD			1		1	1	1.49
ANIMALS			1		1	1	1.49
CROP							
FLAGMAN LOADER							
DITCHES	1		3		4	4	5.97
SNOWBANK			1		1	1	1.49
PARKED AIRCRAFT			2		2	2	2.99
AUTOMOBILE							

INJURY INDEX

FIRST TYPE OF ACCIDENT	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
DIRT BANK	1				1	1	1.49
OBJECT							
BIRD STRIKE			1		1	1	1.49
<u>STALL</u>							
SPIN							
SPIRAL	2				2	2	2.99
MUSH	1	1			2	2	2.99
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT	1	1	1		3	3	4.48
ON GROUND			1		1	1	1.49
<u>AIRFRAME FAILURE</u>							
IN FLIGHT			1		1	1	1.49
ON GROUND							
ENGINE TEARAWAY							
ENGINE FAILURE OR MALFUNCTION	2		3		5	5	7.46
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER							
TAIL ROTOR							
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P							
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE	1				1	1	1.49
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER			1		1	1	1.49
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER	1				1	1	1.49
MISCELLANEOUS/OTHER			1		1	1	1.49
UNDETERMINED							
RECORDS	12	2	6	47	67		
ACCIDENTS	12	2	6	47		67	
PERCENT	17.9	3.0	9.0	70.1			

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

AIRCRAFT DAMAGE

<u>FIRST TYPE OF ACCIDENT</u>	<u>AIRCRAFT DAMAGE</u>			RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR NONE			
GROUND-WATER LOOP-SWERVE	2	5		7	7	10.45
DRAGGED WINGTIP, POD, OR FLOA		1		1	1	1.49
WHEELS-UP LANDING		4		4	4	5.97
WHEELS-DOWN LANDING IN WATER						
GEAR COLLAPSED		2		2	2	2.99
GEAR RETRACTED		8		8	8	11.94
HARD LANDING						
NOSE OVER/DOWN						
ROLL OVER						
OVERSHOOT	2	5		7	7	10.45
UNDERSHOOT	1	5		6	6	8.96
<u>COLLISION BETWEEN AIRCRAFT</u>						
BOTH IN FLIGHT		1		1	1	1.49
ONE AIRBORNE						
BOTH ON GROUND						
<u>COLLISION WITH GROUND/WATER</u>						
CONTROLLED						
UNCONTROLLED	2			2	2	2.99
<u>COLLIDED WITH</u>						
WIRES/POLES						
TREES						
RESIDENCE/S						
BUILDING/S						
FENCE, FENCEPOSTS						
ELECTRONIC TOWERS						
RUNWAY OR APPROACH LIGHTS						
AIRPORT HAZARD		1		1	1	1.49
ANIMALS		1		1	1	1.49
CROP						
FLAGMAN LOADER						
DITCHES		4		4	4	5.97
SNOWBANK		1		1	1	1.49
PARKED AIRCRAFT		1	1	2	2	2.99
AUTOMOBILE						

AIRCRAFT DAMAGE

FIRST TYPE OF ACCIDENT	AIRCRAFT DAMAGE			RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR NONE			
<u>DIRT BANK</u>	1			1	1	1.49
OBJECT						
BIRD STRIKE	1			1	1	1.49
<u>STALL</u>						
SPIN						
SPIRAL	2			2	2	2.99
MUSH	1	1		2	2	2.99
<u>FIRE OR EXPLOSION</u>						
IN FLIGHT	2	1		3	3	4.48
ON GROUND	1			1	1	1.49
<u>AIRFRAME FAILURE</u>						
IN FLIGHT	1			1	1	1.49
ON GROUND						
ENGINE TEARAWAY						
ENGINE FAILURE OR MALFUNCTION	5			5	5	7.46
<u>PROPELLER/ROTOR FAILURE</u>						
PROPELLER						
TAIL ROTOR						
MAIN ROTOR						
PROPELLER/ROTOR ACCIDENT TO P						
JET INTAKE/EXHAUST ACCIDENT Y						
PROPELLER/JET/ROTOR BLAST						
TURBULENCE	1			1	1	1.49
HAIL DAMAGE TO AIRCRAFT						
LIGHTNING STRIKE						
EVASIVE MANEUVER	1			1	1	1.49
UNCONTROLLED ALTITUDE DEVIATI						
DITCHING						
MISSING AIRCRAFT, NOT RECOVER	1			1	1	1.49
MISCELLANEOUS/OTHER	1			1	1	1.49
UNDETERMINED						
RECORDS	20	46	1	67		
ACCIDENTS	20	46	1		67	
PERCENT	29.9	68.7	.0			1.5

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

FIRST OPERATIONAL PHASE	INJURY INDEX				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
<u>STATIC</u>							
STARTING ENGINE/S			1		1	1	1.49
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS							
PARKED-ENGINES NOT OPERATING							
OTHER							
<u>TAXI</u>							
TO TAKEOFF		1	1		2	2	2.99
FROM LANDING				4	4	4	5.97
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				1	1	1	1.49
INITIAL CLIMB	1	1		2	4	4	5.97
VERTICAL							
RUNNING							
ABORTED		1	1	1	3	3	4.48
ABORTED							
ABORTEO							
OTHER							
<u>INFLIGHT</u>							
CLIMB TO CRUISE							
NORMAL CRUISE	2		1	1	4	4	5.97
DESCENDING				1	1	1	1.49
HOLDING				1	1	1	1.49
HOVERING							
POWER-ON DESCENT							
AUTOROTATIVE DESCENT							

INJURY INDEX

<u>FIRST OPERATIONAL PHASE</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	2				2	2	2.99
EMERGENCY DESCENT							
LOW PASS							
OTHER			1		1	1	1.49
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING	1				1	1	1.49
FINAL APPROACH			3		3	3	4.48
INITIAL APPROACH							
FINAL APPROACH	2		1		3	3	4.48
LEVEL OFF/TOUCHDOWN			2	13	15	15	22.39
ROLL			1	16	17	17	25.37
ROLL-ON/RUN-ON							
POWER-ON LANDING							
POWER-OFF AUTORDTATIVE LANDIN							
GO-AROUND	2				2	2	2.99
MISSED APPROACH	1				1	1	1.49
OTHER							
UNKNOWN/NOT REPORTED	1				1	1	1.49
RECORDS	12	2	6	47	67		
ACCIDENTS	12	2	6	47		67	
PERCENT	17.9	3.0	9.0	70.1			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE

STATIC

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
STARTING ENGINE/S	1				1	1	1.49
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS							
PARKED-ENGINES NOT OPERATING							
OTHER							

TAXI

TO TAKEOFF	2				2	2	2.99
FROM LANDING	3	1			4	4	5.97
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	1				1	1	1.49
INITIAL CLIMB	2	2			4	4	5.97
VERTICAL							
RUNNING							
ABORTED	3				3	3	4.48
ABORTED							
ABORTED							
OTHER							

INFLIGHT

CLIMB TO CRUISE							
NORMAL CRUISE	4				4	4	5.97
DESCENDING	1				1	1	1.49
HOLDING	1				1	1	1.49
HOVERING							
POWER-ON DESCENT							
AUTOROTATIVE DESCENT							

AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE

DESTROYED
SUBSTANTIAL
MINOR
NONE

RECORDS ACCIDENTS PERCENT

FIRST OPERATIONAL PHASE	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT	2				2	2	2.99
EMERGENCY DESCENT							
LOW PASS							
OTHER	1				1	1	1.49
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING		1			1	1	1.49
FINAL APPROACH	1	2			3	3	4.48
INITIAL APPROACH							
FINAL APPROACH	2	1			3	3	4.48
LEVEL OFF/TOUCHDOWN	2	13			15	15	22.39
ROLL	2	15			17	17	25.37
ROLL-ON/RUN-ON							
POWER-ON LANDING							
POWER-OFF AUTOROTATIVE LANDING							
GO-AROUND	2				2	2	2.99
MISSED APPROACH	1				1	1	1.49
OTHER							
UNKNOWN/NOT REPORTED	1				1	1	1.49
RECORDS	20	46		1	67		
ACCIDENTS	20	46		1		67	
PERCENT	29.9	68.7	.0	1.5			

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
LARGE FIXED-WING AIRCRAFT
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 67 TOTAL ACCIDENTS
INVOLVES 12 FATAL ACCIDENTS

BROAD CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*	CAUSE	FACTOR	TOTAL*
PILOT	5	2	5	33	3	33	38	5	38
	41.67	16.67	41.67	60.00	5.45	60.00	56.72	7.46	56.72
PERSONNEL	1	1	2	10	1	11	11	1	12
	8.33	.00	8.33	18.18	1.82	20.00	16.42	1.49	17.91
AIRFRAME	.00	.00	.00	1	.00	1	1	.00	1
	.00	.00	.00	1.82	.00	1.82	1.49	.00	1.49
LANDING GEAR	.00	.00	.00	8	5	13	8	5	13
	.00	.00	.00	14.55	9.09	23.64	11.94	7.46	19.40
POWERPLANT	1	1	2	5	.00	5	6	.00	6
	8.33	.00	8.33	9.09	.00	9.09	8.96	.00	8.96
SYSTEMS	1	1	2	1	2	3	2	2	4
	8.33	.00	8.33	1.82	3.64	5.45	2.99	2.99	5.97
INSTRUMENTS/EQUIPMENT AND ACCESSORIES	.00	.00	.00	.00	.00	.00	.00	.00	.00
ROTORCRAFT	.00	.00	.00	.00	.00	.00	.00	.00	.00
AIRPORTS/AIRWAYS/FACILITIES	1	1	2	3	9	12	3	10	13
	.00	8.33	8.33	5.45	16.36	21.82	4.48	14.93	19.40
WEATHER	2	1	3	.00	8	8	2	9	11
	16.67	8.33	25.00	.00	14.55	14.55	2.99	13.43	16.42
TERRAIN	.00	.00	.00	.00	.00	.00	.00	.00	.00
MISCELLANEOUS	1	1	2	2	.00	2	3	.00	3
	8.33	.00	8.33	3.64	.00	3.64	4.48	.00	4.48
UNDETERMINED	3	.00	3	2	.00	2	5	.00	5
	25.00	.00	25.00	3.64	.00	3.64	7.46	.00	7.46

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
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INVOLVES 67 TOTAL ACCIDENTS
 INVOLVES 12 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
ATTEMPTED OPERATION W/KNOWN DEFICIENCIES IN EQUIPMENT									
DELAYED ACTION IN ABORTING TAKEOFF					1	1		1	1
DELAYED IN INITIATING GO-AROUND	1		1	1		1	1		1
INADVERTENTLY RETRACTED GEAR							1		1
FAILED TO SEE AND AVOID OTHER AIRCRAFT	1		1	2		2	2		2
FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS							1		1
FAILED TO OBTAIN/MAINTAIN FLYING SPEED	1		1	1		1	1		1
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT				1		1	2		2
FAILED TO FOLLOW APPROVED PROCEDURES, DIRECTIVES ETC	1		1	1		1	1		1
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS							1		1
IMPROPER OPERATION OF BRAKES AND/OR FLIGHT CONTROLS	2		2	2		2	4		4
IMPROPER OPERATION OF FLIGHT CONTROLS				1	1	2	1	1	2
IMPROPER IFR OPERATION				1		1	1		1
IMPROPER IN-FLIGHT DECISIONS OR PLANNING	1		1			1	1		1
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING							1		1
INADEQUATE SUPERVISION OF FLIGHT				5		5	5		5
LACK OF FAMILIARITY WITH AIRCRAFT				3		3	3		3
EXERCISED POOR JUDGMENT		1	1					1	1
OPERATED CARELESSLY				2		2	2		2
SELECTED UNSUITABLE TERRAIN				2		2	2		2
FAILED TO ASSURE THE GEAR WAS DOWN AND LOCKED				2		2	2		2
MISJUDGED DISTANCE AND SPEED				2		2	2		2
MISJUDGED DISTANCE				4		4	4		4
MISJUDGED DISTANCE AND ALTITUDE	1		1	1		1	2		2
FAILED TO MAINTAIN DIRECTIONAL CONTROL				2		2	2		2
SELECTED WRONG RUNWAY RELATIVE TO EXISTING WIND				1		1	1		1
FAILED TO INITIATE GO-AROUND		1	1		1	1		2	2
DIRECT ENTRIES	1		1	4		4	4		4
	1		1	1		1	2		2
SUBTOTAL	9	2	11	40	3	43	49	5	54
COPILOT									
IMPROPER OPERATION OF FLIGHT CONTROLS						1	1		1
IMPROPER LEVEL OFF				1		1	1		1
IMPROPER COMPENSATION FOR WIND CONDITIONS				1		1	1		1
SPONTANEOUS-IMPROPER ACTION				1		1	1		1
MISJUDGED DISTANCE AND ALTITUDE				2		2	2		2
SUBTOTAL				6		6	6		6
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
IMPROPERLY SERVICED AIRCRAFT(GROUND CREW)				1		1	1		1
INADEQUATE INSPECTION OF AIRCRAFT(MAINTENANCE PERSONNEL)				1		1	1		1
INADEQUATE MAINTENANCE AND INSPECTION				4	1	5	4	1	5
OPERATIONAL SUPERVISORY PERSONNEL									
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
IMPROPER/INADEQUATE SNOW REMOVAL				2		2	2		2
IMPROPER INSPECTION OF FACILITIES				1		1	1		1
AIRWAYS FACILITIES PERSONNEL									
FAILURE TO ISSUE NOTAM				1		1	1		1
PRODUCTION-DESIGN									
MISCELLANEOUS-PERSONNEL									
PILOT OF OTHER AIRCRAFT	1		1				1		1
GROUND SIGNALMAN				1		1	1		1

CAUSE/FACTOR TABLE

PERSONNEL (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	1		1	11	1	12	12	1	13
** AIRFRAME **									
WINGS									
FUSELAGE									
LANDING GEAR									
NORMAL RETRACTION/EXTENSION ASSEMBLY				1	2	3	1	2	3
EMERGENCY/EXTENSION ASSEMBLY				1		1	1		1
TAILWHEEL ASSEMBLIES					1	1	1	1	1
WHEELS, TIRES, AXLES				2		2	2		2
SKID ASSEMBLY					1	1		1	1
LANDING GEAR WARNING AND INDICATING COMPONENTS					1	1		1	1
GEAR LOCKING MECHANISM				2		2	2		2
SWITCHES, LEVERS, CRANKING MECHANISM, ETC				2		2	2		2
OTHER					1	1		1	1
DIRECT ENTRIES				2		2	2		2
FLIGHT CONTROL SURFACES									
RUDDER, SURFACES ATTACHMENTS				1		1	1		1
SUBTOTAL				11	6	17	11	6	17
** POWERPLANT **									
ENGINE STRUCTURE									
IGNITION SYSTEM									
FUEL SYSTEM									
LINES AND FITTINGS									
SELECTOR VALVES	1		1	2		2	2		2
LUBRICATING SYSTEM							1		1
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
EXHAUST SYSTEM									
MANIFOLDS				1		1	1		1
STACKS				1		1	1		1
ENGINE ACCESSORIES									
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
MISCELLANEOUS									
COMPRESSOR STALLS				1		1	1		1
REDUCTION GEAR ASSEMBLY									
COMPRESSOR ASSEMBLY									
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL	1		1	5		5	6		6
** SYSTEMS **									
ELECTRICAL SYSTEM									
HYDRAULIC SYSTEM									
RESERVOIR, LINES, FITTINGS				1	1	2	1	1	2

CAUSE/FACTOR TABLE

SYSTEMS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
OTHER									
FLIGHT CONTROL SYSTEMS					1	1		1	1
ANTI-ICING, DE-ICING SYSTEMS									
AIR CONDITION, HEATING AND PRESSURIZATION									
AUTO PILOT									
FIRE WARNING SYSTEM									
FIRE EXTINGUISHER SYSTEM									
OXYGEN SYSTEM									
OTHER SYSTEMS									
DIRECT ENTRIES	1		1				1		1
SUBTOTAL	1		1	1	2	3	2	2	4
** AIRPORTS/AIRWAYS/FACILITIES **									
AIRPORT FACILITIES									
AIRPORT CONDITIONS									
WET RUNWAY									
ICE/SLUSH ON RUNWAY				2	3	5	2	3	5
SNOW ON RUNWAY		1	1					1	1
SNOW WINDROWS					2	2		2	2
SOFT SHOULDERS (RUNWAY)				1		1	1		1
SNOW ON RAMP/TAXIWAY					1	1		1	1
OTHER					1	1		1	1
AIRWAYS FACILITIES				1	2	3	1	2	3
SUBTOTAL		1	1	4	9	13	4	10	14
** WEATHER **									
LOW CEILING									
RAIN	1		1		3	3	1	3	4
FOG					1	1		1	1
SNOW									
ICING CONDITIONS-INCLUDES SLEET, FREEZING RAIN, ETC					1	1	1	1	2
UNFAVORABLE WIND CONDITIONS	1	1	2		1	1	1	2	3
SUDDEN WINDSHIFT					3	3		3	3
THUNDERSTORM ACTIVITY					1	1		1	1
					2	2		2	2
SUBTOTAL	4	1	5		12	12	4	13	17
** MISCELLANEOUS **									
BIRD COLLISION									
VORTEX TURBULENCE				1		1	1		1
UNDETERMINED	1		1						1
DIRECT ENTRIES	3		3	2		2	5		5
				1		1	1		1
SUBTOTAL	4		4	4		4	8		8
GRAND TOTAL									
	20	4	24	82	33	115	102	37	139
** MISCELLANEOUS ACTS, CONDITIONS **									
ANTI-ICING/DEICING EQUIP-IMPROPER OPER. OF/FAILED TO USE	1		1				1		1
IMPROPER EMERGENCY PROCEDURES	1		1				1		1
GUST LOCKS ENGAGED					1	1	1	1	2
INSTRUMENTS-MISREAD OR FAILED TO READ					1	1	1	1	1
FATIGUE FRACTURE					1	1	1	1	1
FAILURE OF TWO OR MORE ENGINES	1	1	2				1	1	2
SEPARATION IN FLIGHT				1		1	1		1
FIRE IN CABIN/ COCKPIT/ BAGGAGE COMPARTMENT					1	1	1	1	1
FIRE IN ENGINE		1	1	1		1	1	1	2
CORRODED/CORROSION				1		1	1		1
CONGESTED TRAFFIC-PATTERN					2	2		2	2
ICE-ENGINE	1		1				1		1
AIRFRAME ICE	1		1	1		1	2		2
AIRCRAFT CAME TO REST IN WATER		1	1		2	2		3	3
MISSING				1	1	2	1	1	2
HYDROPLANING ON WET RUNWAY				3	1	4	3	1	4

CAUSE/FACTOR TABLE

MISCELLANEOUS ACTS, CONDITIONS (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
OVERLOAD FAILURE					8	8		8	8
MATERIAL FAILURE		1	1	3	1	4	3	2	5
FUEL STARVATION	1		1				1		1
IMPROPER CLEARANCE-TOLERANCE				1		1	1		1
LEAK/LEAKAGE				2		2	2		2
RUNWAY CLOSED					2	2		2	2
DOWNWIND		1	1		1	1		2	2
LOOSE, PART/FITTING				1		1	1		1
BURNED				1		1	1		1
DETERIORATED					2	2		2	2
VIBRATION, EXCESSIVE					1	1		1	1

DIRECT ENTRY CAUSES

LDG GR-MALFUCT OF ANTI-RETRACT SYS-REASON UNDETERM
 PILOT-ENTERED AREA OF KNOWN ICING CONDITIONS.
 PILOT-FAILUR TO SEE ENG.FIRE LITE DELAYD EMGCY ACT
 SYSTEMS-EXCESSIVE NOSE DOWN ELE TRIM-CAUSE UNK.
 LDG GR-NOSE GR STRUT DID NOT EXTND REASON UNDETRMD
 MISC-DEER CROSSED RUNWAY WHEN PILOT LANDED.

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

INJURIES, ACCIDENTS
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 LARGE FIXED-WING AIRCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

	INJURIES				TOTAL
	FATAL	SERIOUS	MINOR	NONE	
PILOT	10	2	3	52	67
COPILOT	7	2	1	46	56
DUAL STUDENT					
CHECK PILOT				1	1
FLIGHT ENGINEER	1				1
NAVIGATOR					
CABIN ATTENDANT			1	3	4
EXTRA CREW		3	14	216	251
PASSENGERS	18	3	14	216	251
TOTAL	36	7	19	318	380
* OTHER AIRCRAFT	2				2
OTHER GROUND	1		2		3
GRAND TOTAL	39	7	21	318	385

INVOLVES 67 TOTAL ACCIDENTS
 INVOLVES 12 FATAL ACCIDENTS

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

SECTION IV

ROTORCRAFT

ACCIDENTS

AIRCRAFT ACCIDENT LISTING
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

IN STATE AND DATE SEQUENCE

2	0851N8495E	121567NANCHORAGE, ALAS	BELL	47G-2A	N
2	0602N73909	041266 GRAND CANYON ARIZ	BELL	47G-3B	F
2	0224N9347F	051065 GRAND CANYON ARIZ	HUGHES	269B	N
2	0585N7320B	070166 GRAND CANYON ARIZ	BELL	47G3B	M
2	1075N7320B	121266 GRAND CANYON ARIZ	BELL	47G-3B	C
3	4878N1321X	121668 GRAND CANYON, ARIZ	BELL	47G3B1	N
2	0066N9301F	010567 BLOOMINGTON, CALIF	HUGHES	269B	C
2	0989N73909	020564N LITTLE NWAY CALIF	BELL	47G3B1	F
3	0500N7822S	032068NCASTAIC, CALIF	BELL	47G3B1	M
2	0201N5161B	042065 CHINO CALIF	BELL	47G2	N
3	4391N696MR	111268 LONG BEACH, CALIF	BELL	206A	N
2	0633N13301	082967 WNDSDR LOCKS, CONN	SIKORSKY	S-51	N
3	1003N9463F	042368 JOLIET, ILL	HUGHES	269B	N
2	0229N6747D	032764 LEEVILLE LA	BELL	47G2A	C
2	0154N8583F	042467NMORGAN CITY LA	BELL	47J-2A	N
2	0245N751A	061267 LAPLACE, LA	SIKORSKY	S-55	M
2	054CN4957S	061267 LAPLACE, LA	SIKORSKY	HRS-1	N
2	0954N324Y	091966NMORGAN CITY LA	SIKORSKY	S-62A	C
2	0957N3092G	092266N LEEVILLE LA	BELL	47J-2A	N
2	0958N6736D	092366N LEEVILLE LA	BELL	47J	N
2	0855N3092G	111565 EMPIRE LA	BELL	47-J2A	N
2	0990N73229	120764N VENICE LA	BELL	47J2	F
3	0849N9487F	032868 ST PAUL, MINN	HUGHES	269B	N
2	0166N3071G	042865 TULLY NY	BELL	47G4	N
2	0953N8799F	091666 LINCOLN RI	HUGHES	269A	F
3	3015N1313X	083068 PORTLAND, TEX	BELL	47G-4A	N

AIRCRAFT ACCIDENT LISTING
KIND OF FLYING
CORPORATE/EXECUTIVE
ROTORCRAFT
U. S. GENERAL AVIATION
1964 - 1968

IN STATE AND DATE SEQUENCE

2	0924N8518F	100866 CLE ELUM WASH	BELL	47G3B1	N
6	0038N5151B	061766NL.CANO COSTA RICABELL		47J	N
6	0084N8547F	082366 RAHGIRD IRAN	BELL	47G-3B	F
6	0036N9451F	060966 CAIRO U.A.R	HUGHES	300	N
6	0064N74817	062867 PT.ANTONO,JAMAICASIKORSKY		S-52-3	N

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTOCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

FIRST TYPE OF ACCIDENT

FATAL
 SERIOUS
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

GROUND-WATER LOOP-SWERVE					
DRAGGED WINGTIP, POD, OR FLOA					
WHEELS-UP LANDING					
WHEELS-DOWN LANDING IN WATER					
GEAR COLLAPSED					
GEAR RETRACTED					
HARD LANDING		5		5	16.13
NOSE OVER/DOWN					
ROLL OVER		1		1	3.23
OVERSHOOT					
UNDERSHOOT		1		1	3.23
<u>COLLISION BETWEEN AIRCRAFT</u>					
BOTH IN FLIGHT					
ONE AIRBORNE					
BOTH ON GROUND					
<u>COLLISION WITH GROUND/WATER</u>					
CONTROLLED		1		1	3.23
UNCONTROLLED	1			1	3.23
<u>COLLIDED WITH</u>					
WIRES/POLES	2	1		3	9.48
TREES					
RESIDENCE/S					
BUILDING/S					
FENCE, FENCEPOSTS		2		2	6.45
ELECTRONIC TOWERS					
RUNWAY OR APPROACH LIGHTS					
AIRPORT HAZARD					
ANIMALS					
CROP					
FLAGMAN LOADER					
DITCHES					
SNOWBANK					
PARKED AIRCRAFT					
AUTOMOBILE					

PRECEDING PAGE BLANK

INJURY INDEX

<u>FIRST TYPE OF ACCIDENT</u>	<u>INJURY INDEX</u>				RECORDS	ACCIDENTS	PERCENT
	FATAL	SERIOUS	MINOR	NONE			
DIRT BANK			1		1	1	3.23
OBJECT		1			1	1	3.23
BIRD STRIKE							
<u>STALL</u>							
SPIN							
SPIRAL							
MUSH		1			1	1	3.23
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT							
ON GROUND							
<u>AIRFRAME FAILURE</u>							
IN FLIGHT							
ON GROUND							
ENGINE TEARAWAY							
ENGINE FAILURE OR MALFUNCTION	2	1	4		7	7	22.90
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER							
TAIL ROTOR		3	3		6	6	19.35
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P							
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE							
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEDUS/OTHER			1		1	1	3.23
UNDETERMINED							
RECORDS	5	4	3	19	31		
ACCIDENTS	5	4	3	19		31	
PERCENT	16.1	12.9	9.7	61.3			

ANALYTIC TABLE

FIRST TYPE ACCIDENT VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

AIRCRAFT DAMAGE

FIRST TYPE OF ACCIDENT

DESTROYED
 SUBSTANTIAL
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

FIRST TYPE OF ACCIDENT	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
GROUND-WATER LOOP-SWERVE							
DRAGGED WINGTIP, POD, OR FLOA							
WHEELS-UP LANDING							
WHEELS-DOWN LANDING IN WATER							
GEAR COLLAPSED							
GEAR RETRACTED							
HARD LANDING		5			5	5	16.13
NOSE OVER/DOWN							
ROLL OVER	1				1	1	3.23
OVERSHOOT							
UNDERSHOOT		1			1	1	3.23
<u>COLLISION BETWEEN AIRCRAFT</u>							
BOTH IN FLIGHT							
ONE AIRBORNE							
BOTH ON GROUND							
<u>COLLISION WITH GROUND/WATER</u>							
CONTROLLED	1				1	1	3.23
UNCONTROLLED	1				1	1	3.23
<u>COLLIDED WITH</u>							
WIRES/POLES		3			3	3	9.68
TREES							
RESIDENCE/S							
BUILDING/S							
FENCE, FENCEPOSTS		2			2	2	6.45
ELECTRONIC TOWERS							
RUNWAY OR APPROACH LIGHTS							
AIRPORT HAZARD							
ANIMALS							
CROP							
FLAGMAN LOADER							
DITCHES							
SNOWBANK							
PARKED AIRCRAFT							
AUTOMOBILE							

AIRCRAFT DAMAGE

<u>FIRST TYPE OF ACCIDENT</u>	<u>AIRCRAFT DAMAGE</u>				RECORDS	ACCIDENTS	PERCENT
	DESTROYED	SUBSTANTIAL	MINOR	NONE			
DIRT BANK		1			1	1	3.23
OBJECT	1				1	1	3.23
BIRD STRIKE							
<u>STALL</u>							
SPIN							
SPIRAL							
MUSH	1				1	1	3.23
<u>FIRE OR EXPLOSION</u>							
IN FLIGHT							
ON GROUND							
<u>AIRFRAME FAILURE</u>							
IN FLIGHT							
ON GROUND							
ENGINE TEARAWAY							
ENGINE FAILURE OR MALFUNCTION	3	4			7	7	22.98
<u>PROPELLER/ROTOR FAILURE</u>							
PROPELLER							
TAIL ROTOR	3	3			6	6	19.35
MAIN ROTOR							
PROPELLER/ROTOR ACCIDENT TO P							
JET INTAKE/EXHAUST ACCIDENT T							
PROPELLER/JET/ROTOR BLAST							
TURBULENCE							
HAIL DAMAGE TO AIRCRAFT							
LIGHTNING STRIKE							
EVASIVE MANEUVER							
UNCONTROLLED ALTITUDE DEVIATI							
DITCHING							
MISSING AIRCRAFT, NOT RECOVER							
MISCELLANEOUS/OTHER		1			1	1	3.23
UNDETERMINED							
RECORDS	11	20			31		
ACCIDENTS	11	20				31	
PERCENT	35.5	64.5	.0	.0			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS INJURY INDEX
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

INJURY INDEX

FIRST OPERATIONAL PHASE

FATAL
 SERIOUS
 MINOR
 NONE

RECORDS ACCIDENTS PERCENT

STATIC

STARTING ENGINE/S

IDLING ENGINE/S

ENGINE RUNUP

IDLING ROTORS

PARKED-ENGINES NOT OPERATING

OTHER

TAXI

TO TAKEOFF

FROM LANDING

OTHER

GROUND TAXI TO TAKEOFF

GROUND TAXI FROM LANDING

GROUND TAXI, OTHER

AERIAL TAXI TO TAKEOFF

AERIAL TAXI TO/FROM LANDING

AERIAL TAXI, OTHER

TAKEOFF

RUN

INITIAL CLIMB

VERTICAL

RUNNING

ABORTED

ABORTED

ABORTED

OTHER

INFLIGHT

CLIMB TO CRUISE

NORMAL CRUISE

DESCENDING

HOLDING

HOVERING

POWER-ON DESCENT

AUTODROTATIVE DESCENT

INJURY INDEX

FIRST OPERATIONAL PHASE

FATAL
SERIOUS
MINOR
NONE

RECORDS ACCIDENTS PERCENT

FIRST OPERATIONAL PHASE	FATAL	SERIOUS	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT							
EMERGENCY DESCENT							
LOW PASS		1	1		2	2	6.45
OTHER	1				1	1	3.23
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING							
FINAL APPROACH	1		2		3	3	9.68
INITIAL APPROACH							
FINAL APPROACH							
LEVEL OFF/TOUCHDOWN		1			1	1	3.23
ROLL							
ROLL-ON/RUN-ON							
POWER-ON LANDING		1	5		6	6	19.35
POWER-OFF AUTOROTATIVE LANDING							
GO-AROUND							
MISSED APPROACH							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	5	4	3	19	31		
ACCIDENTS	5	4	3	19		31	
PERCENT	16.1	12.9	9.7	61.3			

ANALYTIC TABLE

FIRST PHASE OF OPERATION VS AIRCRAFT DAMAGE
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE

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

ABORTED

ABORTED

ABORTED

OTHER

INFLIGHT

CLIMB TO CRUISE

NORMAL CRUISE

DESCENDING

HOLDING

HOVERING

POWER-ON DESCENT

AUTOROTATIVE DESCENT

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
STARTING ENGINE/S							
IDLING ENGINE/S							
ENGINE RUNUP							
IDLING ROTORS	1				1	1	3.23
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	3	4			7	7	22.50
VERTICAL	1	2			3	3	9.68
RUNNING							
ABORTED							
ABORTED							
ABORTED							
OTHER							
<u>INFLIGHT</u>							
CLIMB TO CRUISE		1			1	1	3.23
NORMAL CRUISE	2	1			3	3	9.68
DESCENDING							
HOLDING							
HOVERING	1				1	1	3.23
POWER-ON DESCENT	2				2	2	6.45
AUTOROTATIVE DESCENT							

AIRCRAFT DAMAGE

FIRST OPERATIONAL PHASE

DESTROYED
SUBSTANTIAL
MINOR
NONE

RECORDS ACCIDENTS PERCENT

	DESTROYED	SUBSTANTIAL	MINOR	NONE	RECORDS	ACCIDENTS	PERCENT
ACROBATICS							
BUZZING							
UNCONTROLLED DESCENT							
EMERGENCY DESCENT							
LOW PASS			2		2	2	6.45
OTHER	1				1	1	3.23
EN ROUTE TO TREAT CROP							
EN ROUTE TO RELOADING AREA							
SURVEY FIELD/AREA							
STARTING SWATH RUN							
SWATH RUN							
FLAREOUT FOR SWATH RUN							
PULLUP FROM SWATH RUN							
PROCEDURE TURNAROUND							
CLEANUP SWATH							
MANEUVER TO AVOID OBSTRUCTION							
RETURN TO STRIP							
<u>LANDING</u>							
TRAFFIC PATTERN-CIRCLING							
FINAL APPROACH			3		3	3	9.68
INITIAL APPROACH							
FINAL APPROACH							
LEVEL OFF/TOUCHDOWN			1		1	1	3.23
ROLL							
ROLL-ON/RUN-ON							
POWER-ON LANDING			6		6	6	19.35
POWER-OFF AUTOROTATIVE LANDIN							
GO-AROUND							
MISSED APPROACH							
OTHER							
UNKNOWN/NOT REPORTED							
RECORDS	11	20			31		
ACCIDENTS	11	20				31	
PERCENT	35.5	64.5	.0	.0			

CAUSE/FACTOR TABLE

KIND OF FLYING
CORPORATE/EXECUTIVE
ROTORCRAFT
U. S. GENERAL AVIATION
1964 - 1968

INVOLVES 31 TOTAL ACCIDENTS
INVOLVES 5 FATAL ACCIDENTS

DETAILED CAUSE/FACTOR	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
** PILOT **									
PILOT IN COMMAND									
BECAME LOST/DISORIENTED									
DIVERTED ATTENTION FROM OPERATION OF AIRCRAFT				1		1	1		1
FAILED TO SEE AND AVOID OBJECTS OR OBSTRUCTIONS					1	1	1	1	2
MISJUDGED, SPEED, ALTITUDE OR CLEARANCE				2		2	2		2
FAILED TO MAINTAIN ADEQUATE ROTOR RPM				1		1	1		1
FAILED TO USE OR INCORRECTLY USED MISC EQUIPMENT	1		1	3		3	4		4
IMPROPER OPERATION OF POWERPLANT + POWERPLANT CONTROLS				1		1	1		1
IMPROPER OPERATION OF FLIGHT CONTROLS				3	1	4	3	1	4
INADEQUATE PREFLIGHT PREPARATION AND/OR PLANNING				6	1	7	6	1	7
EXERCISED POOR JUDGMENT	1		1	2		2	3		3
SELECTED UNSUITABLE TERRAIN				1		1	1		1
SPONTANEOUS-IMPROPER ACTION	1		1	1		1	1		1
MISJUDGED SPEED AND ALTITUDE							1		1
MISJUDGED CLEARANCE				1		1	1		1
				1		1	1		1
SUBTOTAL	3		3	23	3	26	26	3	29
** PERSONNEL **									
FLIGHT INSTRUCTOR									
MAINTENANCE, SERVICING, INSPECTION									
INADEQUATE MAINTENANCE AND INSPECTION	1		1						
OPERATIONAL SUPERVISORY PERSONNEL							1		1
WEATHER PERSONNEL									
TRAFFIC CONTROL PERSONNEL									
AIRPORT SUPERVISORY PERSONNEL									
AIRWAYS FACILITIES PERSONNEL									
PRODUCTION-DESIGN									
MISCELLANEOUS-PERSONNEL									
THIRD PILOT									
FLIGHT ENGINEER									
DISPATCHING									
SUBTOTAL	1		1				1		1
** POWERPLANT **									
ENGINE STRUCTURE									
IGNITION SYSTEM									
FUEL SYSTEM									
LUBRICATING SYSTEM									
COOLING SYSTEM									
PROPELLER AND ACCESSORIES									
EXHAUST SYSTEM									
ENGINE ACCESSORIES									
ENGINE CONTROLS-COCKPIT									
POWERPLANT-INSTRUMENTS									
MISCELLANEOUS									
POWERPLANT FAILURE FOR UNDETERMINED REASONS				3		3	3		3
REDUCTION GEAR ASSEMBLY									
COMPRESSOR ASSEMBLY									
COMBUSTION ASSEMBLY									
TURBINE ASSEMBLY									
ACCESSORY DRIVE ASSEMBLY									
LUBRICATING SYSTEM									
FUEL SYSTEM									
SAFETY SYSTEM									
IGNITION SYSTEM									
TORQUEMETER									
AIR BLEED									

CAUSE/FACTOR TABLE

POWERPLANT (CONTINUED)

	FATAL ACCIDENTS			NONFATAL ACCIDENTS			ALL ACCIDENTS		
	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL	CAUSE	FACTOR	TOTAL
EXHAUST SYSTEM									
THRUST REVERSER									
PROPELLER SYSTEM									
CONSTANT SPEED DRIVE									
POWER LEVER									
PROPELLER LEVER									
REVERSE THRUST LEVER									
ENGINE INDICATING EQUIPMENT									
ENGINE INSTALLATION									
SUBTOTAL				3		3	3		3
** ROTORCRAFT **									
ROTOR ASSEMBLIES									
TAIL ROTOR BLADES	1		1				1		1
TRANSMISSION ROTOR DRIVE SYSTEM									
TAIL ROTOR DRIVE SHAFT ASSEMBLY				1		1	1		1
TAIL ROTOR GEAR BOX	1		1				1		1
CLUTCH ASSEMBLY				1		1	1		1
FLIGHT CONTROL SYSTEMS									
MISCELLANEOUS UNITS AND ASSEMBLIES									
TAIL BOOMS/PYLONS/CONES				1		1	1		1
DIRECT ENTRIES				1		1	1		1
SUBTOTAL	2		2	4		4	6		6
** WEATHER **									
FOG					1	1		1	1
UNFAVORABLE WIND CONDITIONS				2	2	4	2	2	4
DOWNDRAFTS, UPDRAFTS					1	1		1	1
HIGH DENSITY ALTITUDE				1	1	2	1	1	2
SUBTOTAL				3	5	8	3	5	8
** TERRAIN **									
WET, SOFT GROUND					1	1		1	1
SNOW-COVERED					1	1		1	1
GLASSY WATER				1		1	1		1
HIGH OBSTRUCTIONS				1		1	1		1
OTHER					1	1		1	1
SUBTOTAL				2	3	5	2	3	5
** MISCELLANEOUS **									
UNDETERMINED									
DIRECT ENTRIES	1		1	1		1	1		1
SUBTOTAL	1		1	1		1	2		2
GRAND TOTAL	7		7	36	11	47	43	11	54
** MISCELLANEOUS ACTS, CONDITIONS **									
INATTENTIVE TO FUEL SUPPLY				1		1	1		1
MISCALCULATED FUEL CONSUMPTION				1		1	1		1
JETTISONED LOAD					1	1		1	1
FATIGUE FRACTURE	1		1	2		2	3		3
SEPARATION IN FLIGHT		2	2					2	2
WHITEOUT				1		1	1		1
SUNGLARE				1		1	1		1
SIMULATED CONDITIONS	1		1				1		1
AIRCRAFT CAME TO REST IN WATER		1	1		4	4		5	5
MATERIAL FAILURE	1		1				1		1
IMPROPERLY INSTALLED	1		1				1		1
JAMMED	1		1				1		1

CAUSE/FACTOR TABLE

DIRECT ENTRY CAUSES (CONTINUED)

DIRECT ENTRY CAUSES

MISC-TAIL ROTOR STRUCK BY UNSECURD OBJECT IN FLIGHT
ROTORCFT-INTERMEDIATE DRIVE SHAFT RIVETS SHEARED.

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

INJURIES, ACCIDENTS
 KIND OF FLYING
 CORPORATE/EXECUTIVE
 ROTORCRAFT
 U. S. GENERAL AVIATION
 1964 - 1968

	INJURIES					TOTAL
	FATAL	SERIOUS	MINOR	NONE	UNKNOWN	
PILOT	4	4	4	19		31
COPILOT						
DUAL STUDENT						
CHECK PILOT						
FLIGHT ENGINEER						
NAVIGATOR						
CABIN ATTENDANT						
EXTRA CREW						
PASSENGERS	3	7	7	30	1	47
TOTAL	7	11	11	50		79
OTHER AIRCRAFT						
OTHER GROUND						
GRAND TOTAL	7	11	11	50		79

INVOLVES 31 TOTAL ACCIDENTS
 INVOLVES 5 FATAL ACCIDENTS