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1998

ACCIDENT/INCIDENT REPORTING (ADREP) ANNUAL STATISTICS — 1997

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TABLE OF CONTENTS

	Page
Introduction	(iii)
Part I. General information regarding the ADREP data	1
Part II. Accident types	3
Part III. Information for the year 1996	9
Part IV. Trend information and preliminary data for the year 1998	46
Part V. List of accidents involving passenger fatalities in scheduled and non-scheduled operations in 1997	49

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INTRODUCTION

GENERAL

1. The information in this publication is based on accident and incident reports provided to ICAO by Contracting States in accordance with the reporting requirements in Chapter 6 of Annex 13, *Aircraft Accident and Incident Investigation*.
2. This edition of the ICAO Accident/Incident Reporting (ADREP) annual statistics contains detailed information for the year 1997, preliminary data for the year 1998, and ten year trends from 1989 to 1998. ADREP data reports are sent to ICAO upon completion of an accident or incident investigation, and therefore data can be published only with some delay.

PURPOSE

3. The purpose of ADREP statistics is to provide data that may be useful for general safety studies and accident prevention programmes. For more specific needs, States are invited to make full use of ADREP information by making specific ADREP requests to facilitate safety studies, accident prevention programmes and accident investigations.

LIMITATIONS

4. The reader should be aware of the following:
 - a) the *Accident/Incident Reporting Manual (ADREP Manual)* (Doc 9156) contains lists of codes to be used by States in the preparation of ADREP reports. Due to the sensitive subject matter, it is possible for the compiler to show unintentional bias in the choice of codes used to describe the occurrence and, in particular, those organizations or persons involved;
 - b) some occurrences are reported to ICAO through electronic means. Most of this data is converted to ICAO's format before it is entered into the ADREP database. Since some of the data reported is not compatible with the ADREP coding system, precision is not attainable in all cases; and
 - c) coding of accidents and incidents have been redefined over time, in particular those pertaining to incidents. Older data has not been recoded to reflect the new coding and format.

LAYOUT

5. This circular contains five parts:

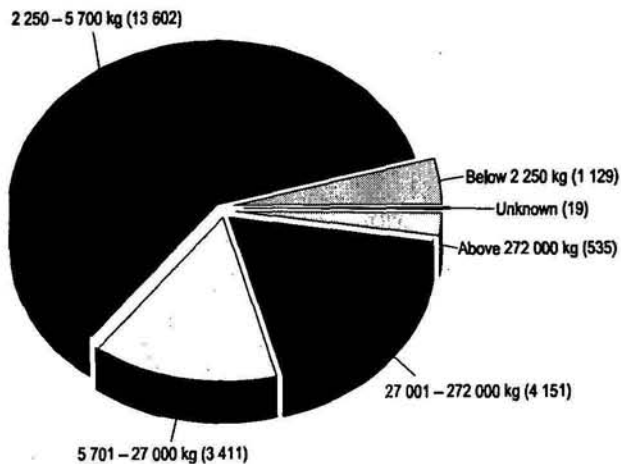
- Part I provides general information regarding the scope of the information contained in the ADREP system.
 - Part II presents information on accident types which have been the focus of accident prevention programmes in the last 10 years.
 - Part III contains detailed information for the year 1996.
 - Part IV provides general accident trend information including preliminary data for 1998.
 - Part V provides a list of accidents involving passenger fatalities in scheduled and non-scheduled operations in 1997.
-

Part I

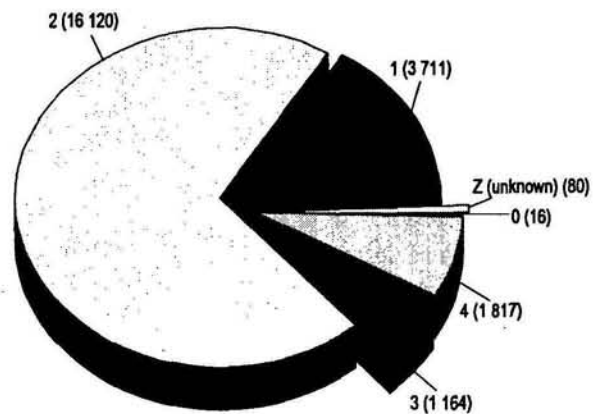
GENERAL INFORMATION REGARDING THE ADREP DATA

1. As of 31 May 1998, the ICAO ADREP system contained data from some 22 908 reports: 3 592 preliminary reports, 16 330 data reports, and unofficial data on 2 686 occurrences, which were within the reporting requirements of Annex 13, Chapter 6. Of a total of 22 908 reports, 84.5% were accident reports and 15.5% were incident reports.
2. General aviation accounted for 53.2% of the reports, and airline operations for 46.8%. In terms of the types of aircraft, 93% were for fixed-wing aircraft, and 7% for helicopters.
3. The percentages of reports in relation to the mass category of the aircraft involved and their number of engines are shown below:

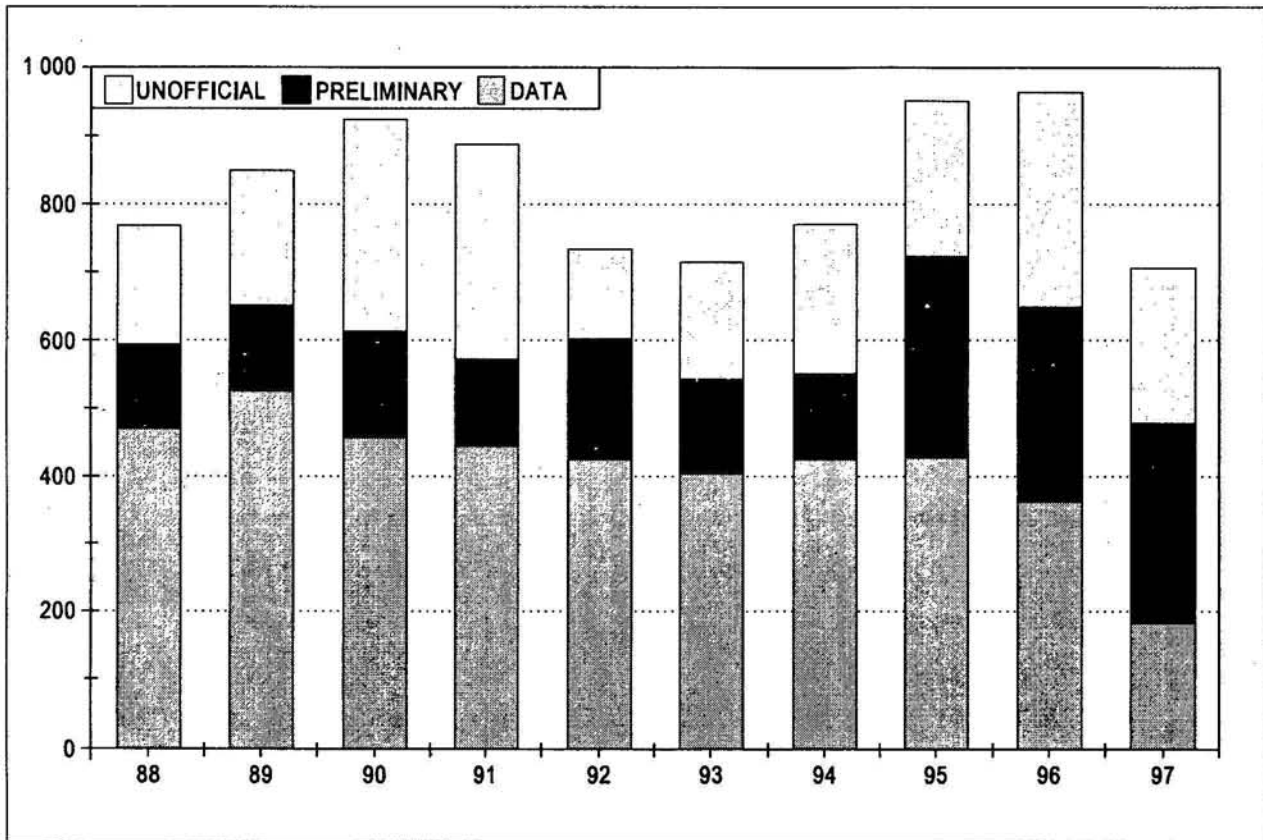
Mass category



Number of engines



4. The information in Part II presents data from the last 10 years based on 8 416 reports and Part III, for the year 1996 is based on 685 reports. The table below shows the distribution of these reports into accident/incident data reports, preliminary reports and unofficial reports, for the last 10 years.



Note.— The reporting to ICAO of an accident is usually done twice, first with a short report called a "Preliminary Report" and, when the investigation is completed, with a complete report called an "Accident Data Report". A Preliminary Report is not required for incidents (only for accidents) nor is it required if the Accident Data Report can be submitted within 30 days of the date of the accident.

Part II

ACCIDENT TYPES

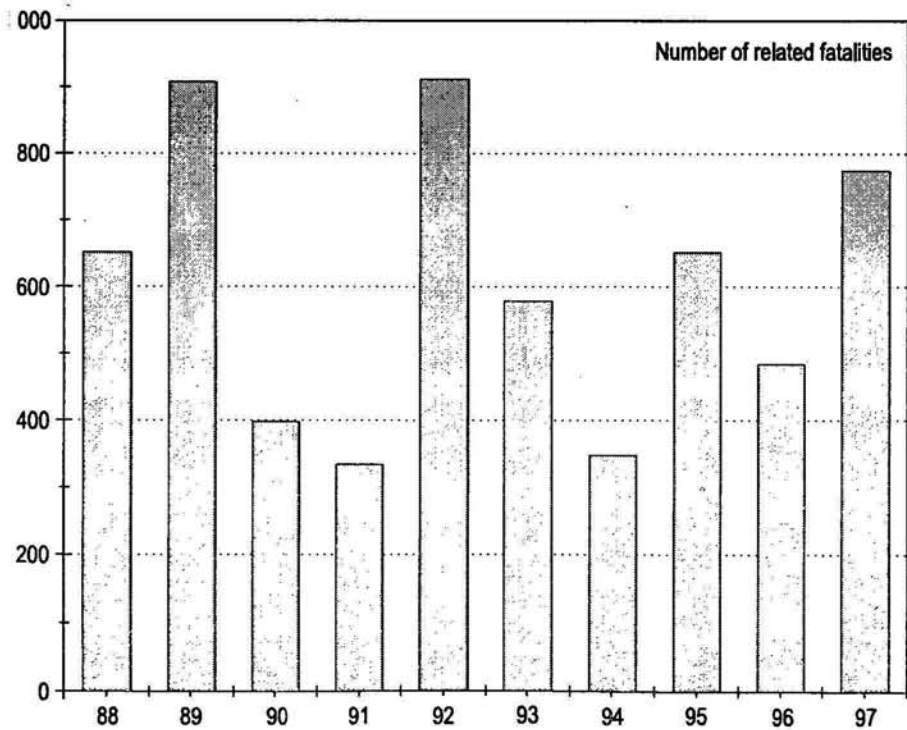
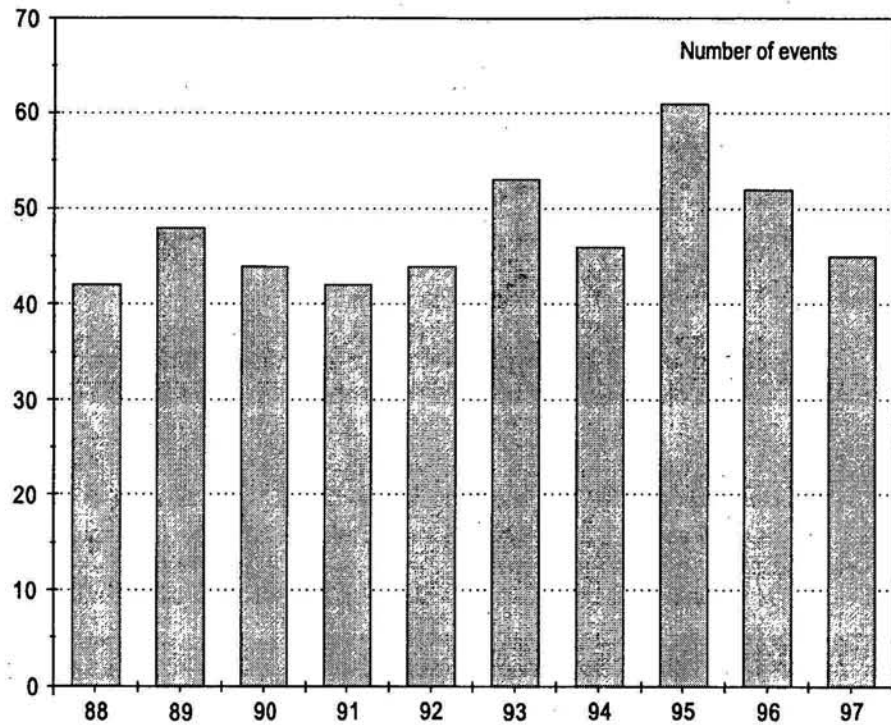
The following tables present accident types in airline operations, which have been of special interest and subject to specific accident prevention programmes in the last 10 years. It should be noted that a given accident may fall into more than one of the following accident types.

Note on the statistical tables.— The tables were developed with data from the ADREP reporting system. In the ADREP report, each accident/incident may be described by up to five events. For each event type, there is a corresponding phase of operation and up to ten descriptive factors consisting of one subject and up to three modifiers as well as up to three related explanatory factors consisting of one organization/person, a subject and a modifier.

Controlled Flight into Terrain (CFIT)

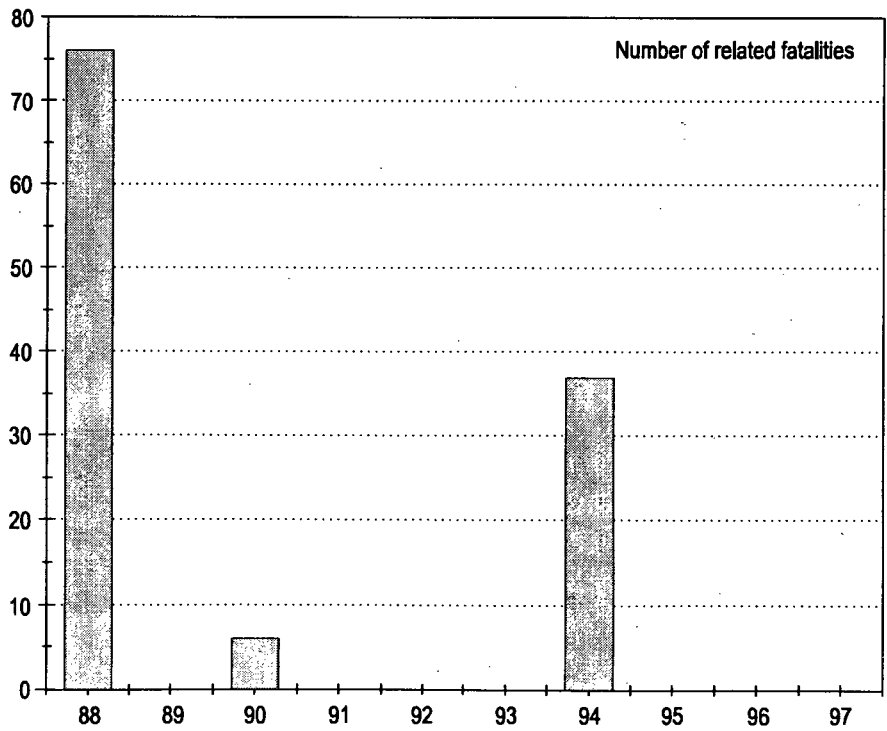
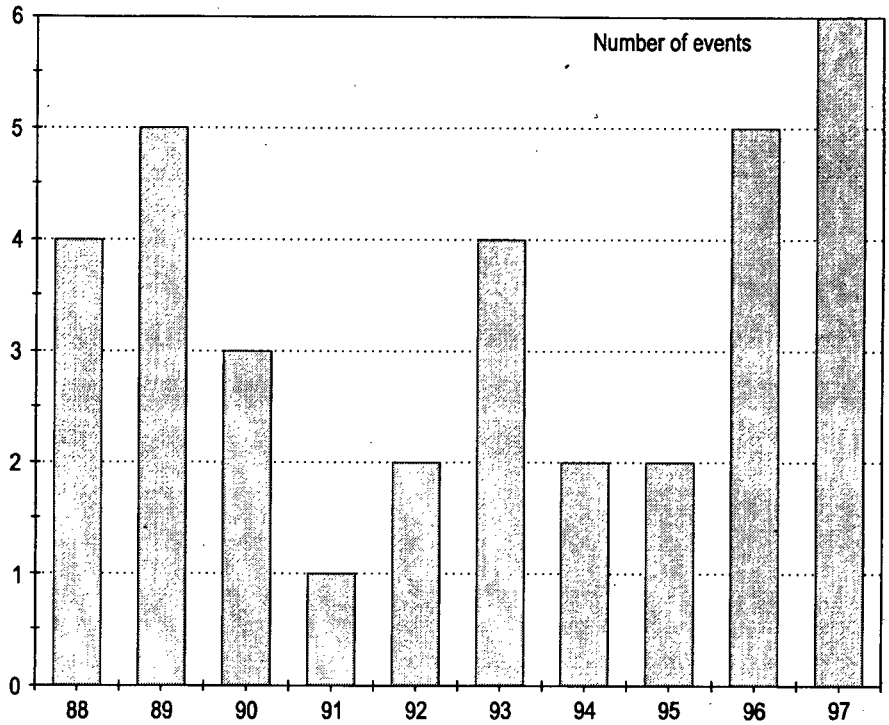
CFIT is defined as an accident in which aircraft, under the control of the crew, is flown into terrain (or water) with no prior awareness on the part of the crew of the impending accident. The prevention of these types of accidents has recently been the subject of an industry task force.

The tables present information on accidents which were classified as "CFIT" accidents.



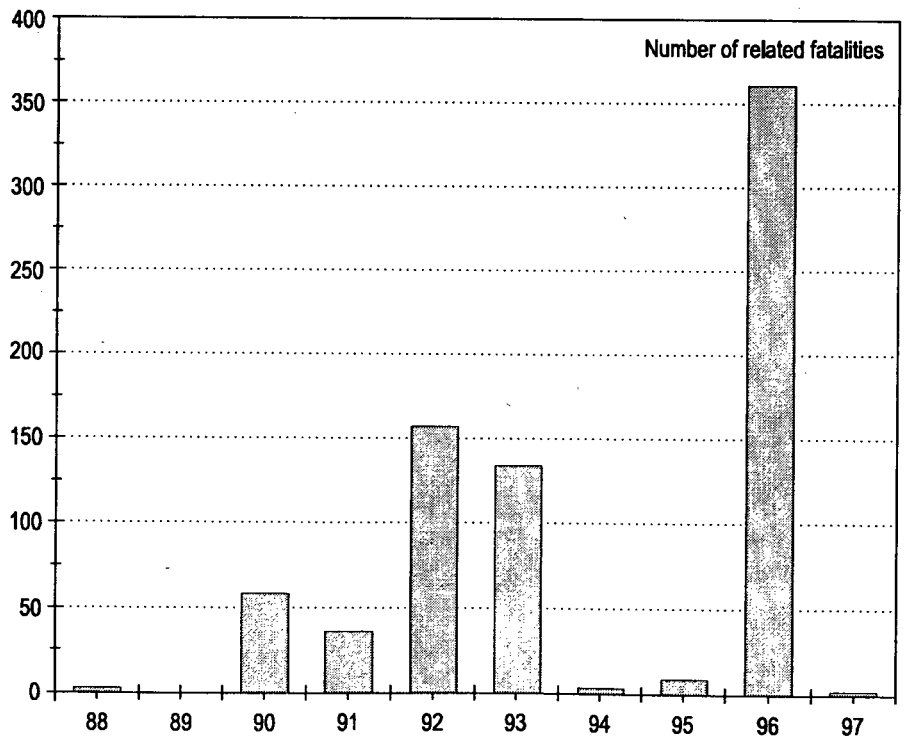
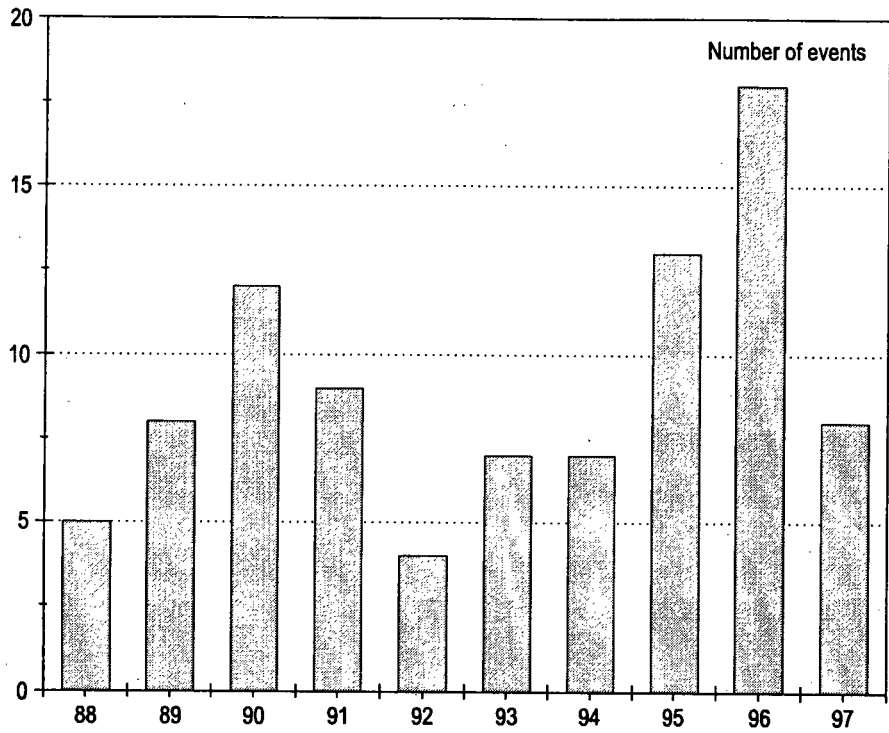
Windshear

The tables present information on occurrences where windshear was quoted as a type of event or where a factor "windshear" was entered in the report.



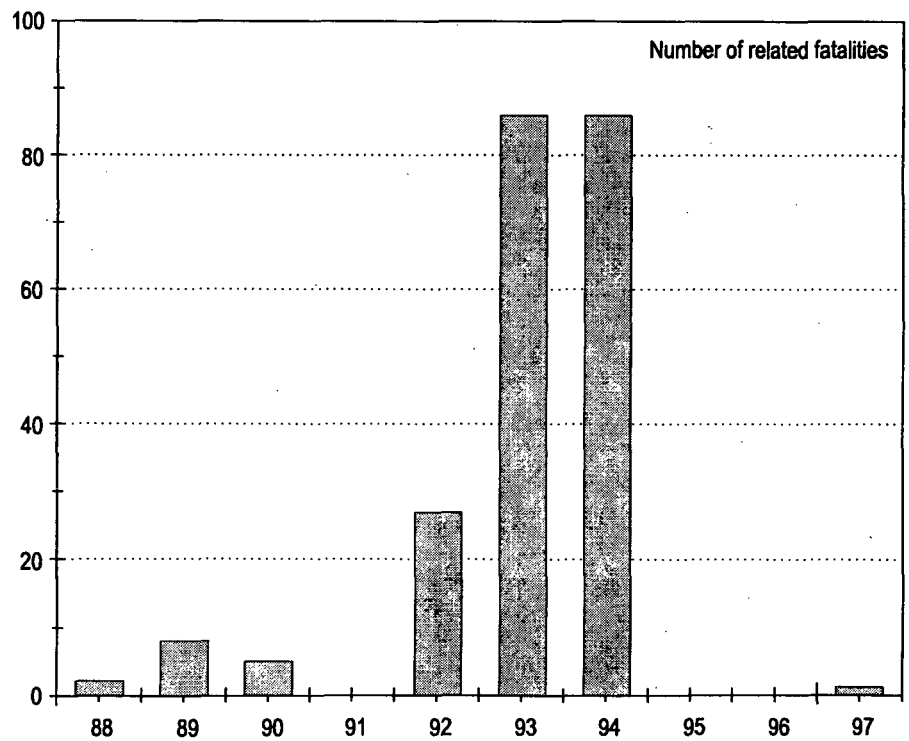
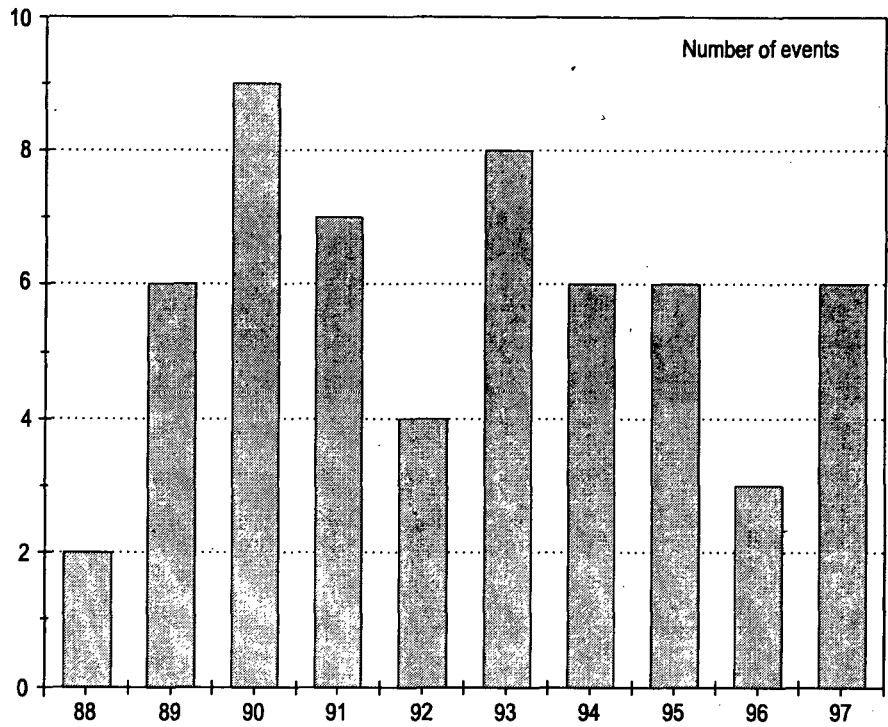
Aircraft collisions

The tables present information on collisions between two aircraft (collisions between an aircraft and other objects are not included).



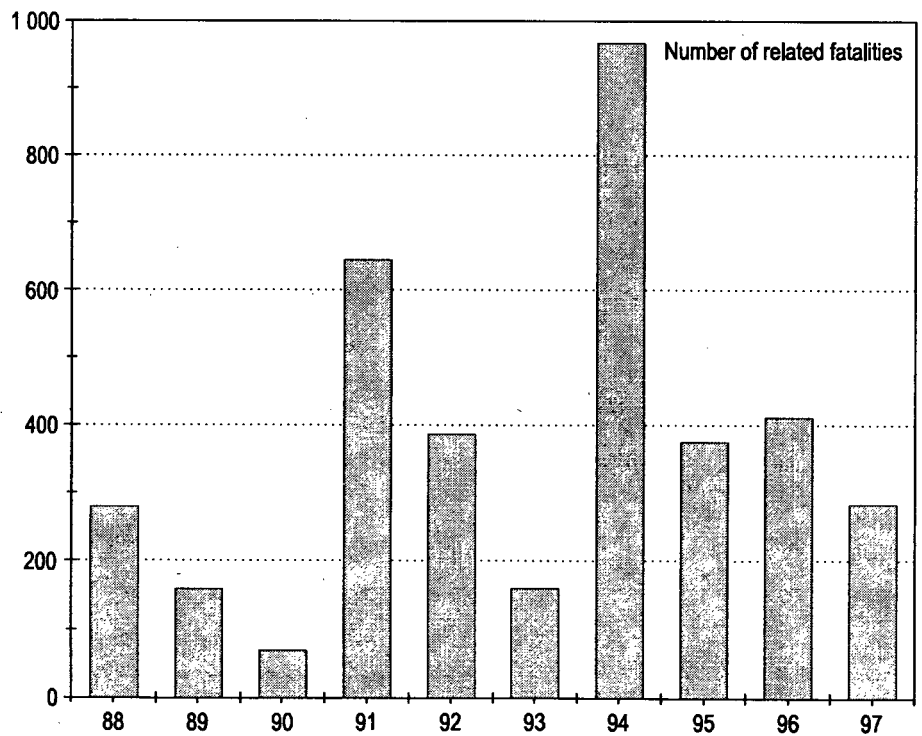
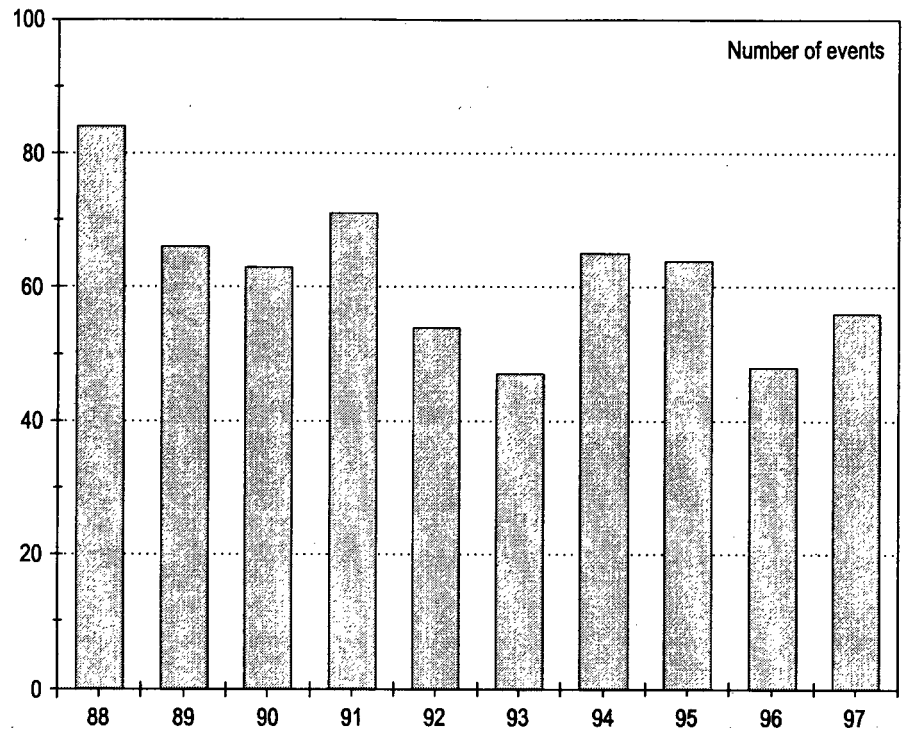
Icing

The tables present information on occurrences in which either an event "aircraft encountered icing" was coded, or "icing" was coded as a factor.



Loss of control

The tables present information on accidents in which at least one event was coded as "loss of control".



Part III

INFORMATION FOR THE YEAR 1996

Note.— Tables III-1 and III-2 provide data for 1997. The charts that follow provide data up to 1996 only.

Table III-1. Accidents and incidents by type of operation and aircraft mass

1997

Type of operation and aircraft mass	Number of reports			Number of occurrences			Number of fatalities				Number of aircraft destroyed
	PR	DR	Unofficial	Fatal	Non-fatal	Total	Crew	Pax	Other	Total	
I. Accidents to aeroplanes											
Scheduled airline operations											
Aeroplanes: over 27 000 kg	16	16	27	14	45	59	68	752	1	821	17
Aeroplanes: 2 250 to 27 000 kg	18	6	24	19	29	48	33	168	1	202	25
Non-scheduled airline operations											
Aeroplanes: over 27 000 kg	6	2	6	4	10	14	15	110	0	125	5
Aeroplanes: 2 250 to 27 000 kg	34	19	19	19	53	72	32	128	0	160	23
Other airline operations											
Aeroplanes: over 27 000 kg	0	0	3	1	2	3	2	0	0	2	2
Aeroplanes: 2 250 to 27 000 kg	3	3	9	9	6	15	20	5	0	25	12
General aviation											
Aeroplanes: over 5 700 kg	3	7	11	8	13	21	38	33	63	134	11
Aeroplanes: 2 250 to 5 700 kg	30	67	24	27	94	121	34	24	0	58	43
II. Accidents to helicopters											
Airline operations	2	1	4	6	1	7	6	42	0	48	4
General aviation	15	10	10	21	14	35	20	49	0	69	22
III. Incidents											
Aeroplanes											
Airline operations	133	37	70	0	240	240	0	0	0	0	0
General aviation	12	1	9	0	22	22	0	0	0	0	0
Helicopters											
Airline operations	3	1	0	0	4	4	0	0	0	0	0
General aviation	9	2	1	0	12	12	0	0	0	0	0

Table III-2. Accidents and incidents by type of operation and type of powerplant

1997

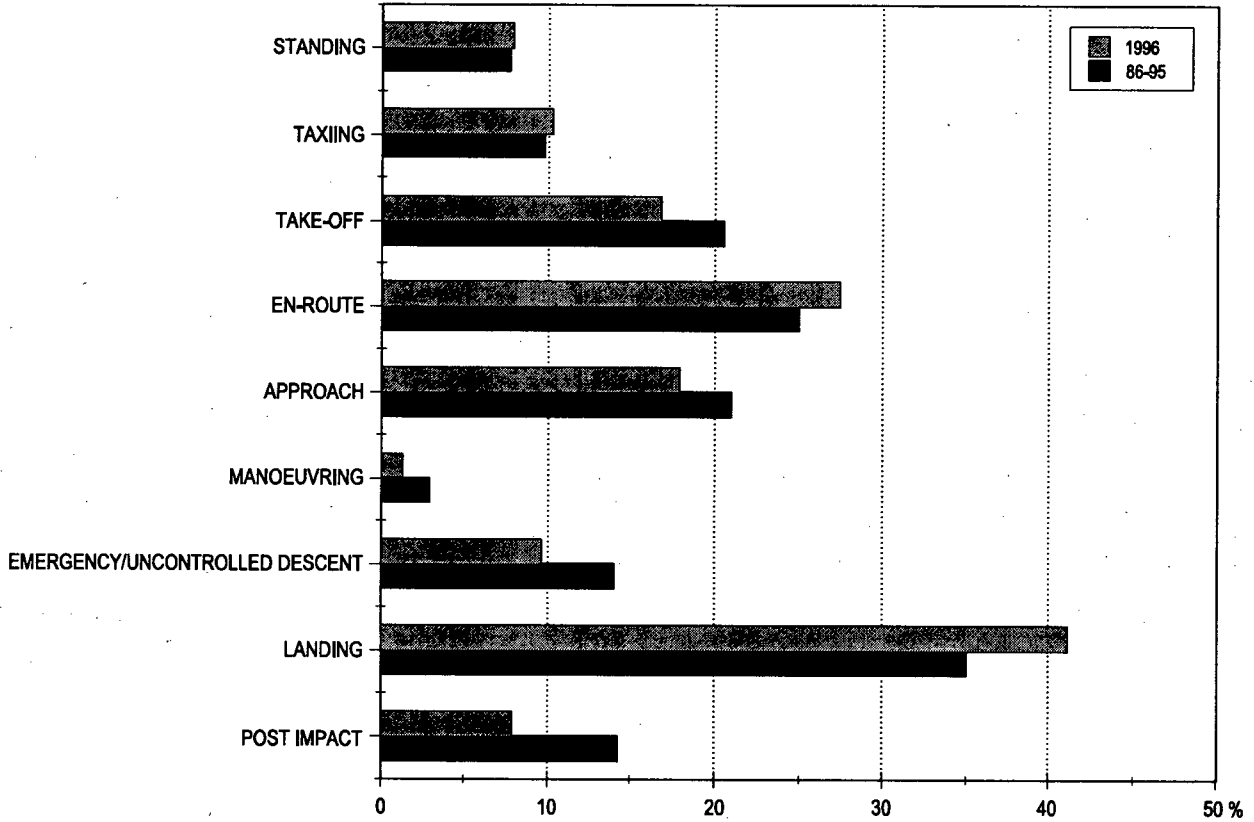
Type of operation and type of powerplant	Number of reports			Number of occurrences			Number of fatalities				Number of aircraft destroyed
	PR	DR	Unofficial	Fatal	Non- fatal	Total	Crew	Pax	Other	Total	
I. Fixed wing aircraft											
Scheduled airline operations											
Turbofan/turbojet	90	40	65	15	180	195	69	753	1	823	19
Turboprop	44	14	33	14	77	91	29	142	1	172	19
Piston	1	0	4	4	1	5	3	25	0	28	4
Non-scheduled airline operations											
Turbofan/turbojet	17	5	11	5	28	33	15	79	0	94	5
Turboprop	21	6	18	12	33	45	26	149	0	175	16
Piston	34	14	6	6	48	54	6	10	0	16	7
Other airline operations											
Turbofan/turbojet	0	1	9	3	7	10	10	1	0	11	5
Turboprop	1	1	5	3	4	7	7	1	0	8	5
Piston	2	2	3	4	3	7	5	3	0	8	4
General aviation											
Turbofan/turbojet	8	6	15	6	23	29	24	16	63	103	9
Turboprop	14	23	12	12	37	49	27	23	0	50	16
Piston	23	46	17	17	69	86	21	18	0	39	29
II. Helicopters											
Airline operations											
Turbohaft	5	2	4	6	5	11	6	42	0	48	4
General aviation											
Turbohaft	19	11	11	20	21	41	19	48	0	67	19
Piston	5	1	0	1	5	6	1	1	0	2	3

FIXED WING AIRCRAFT

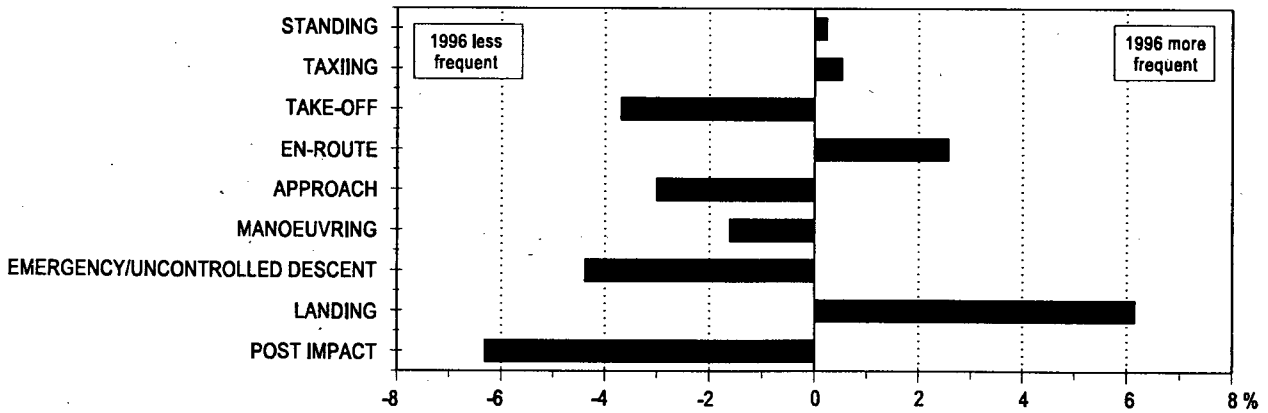
Airline Operations

Accidents

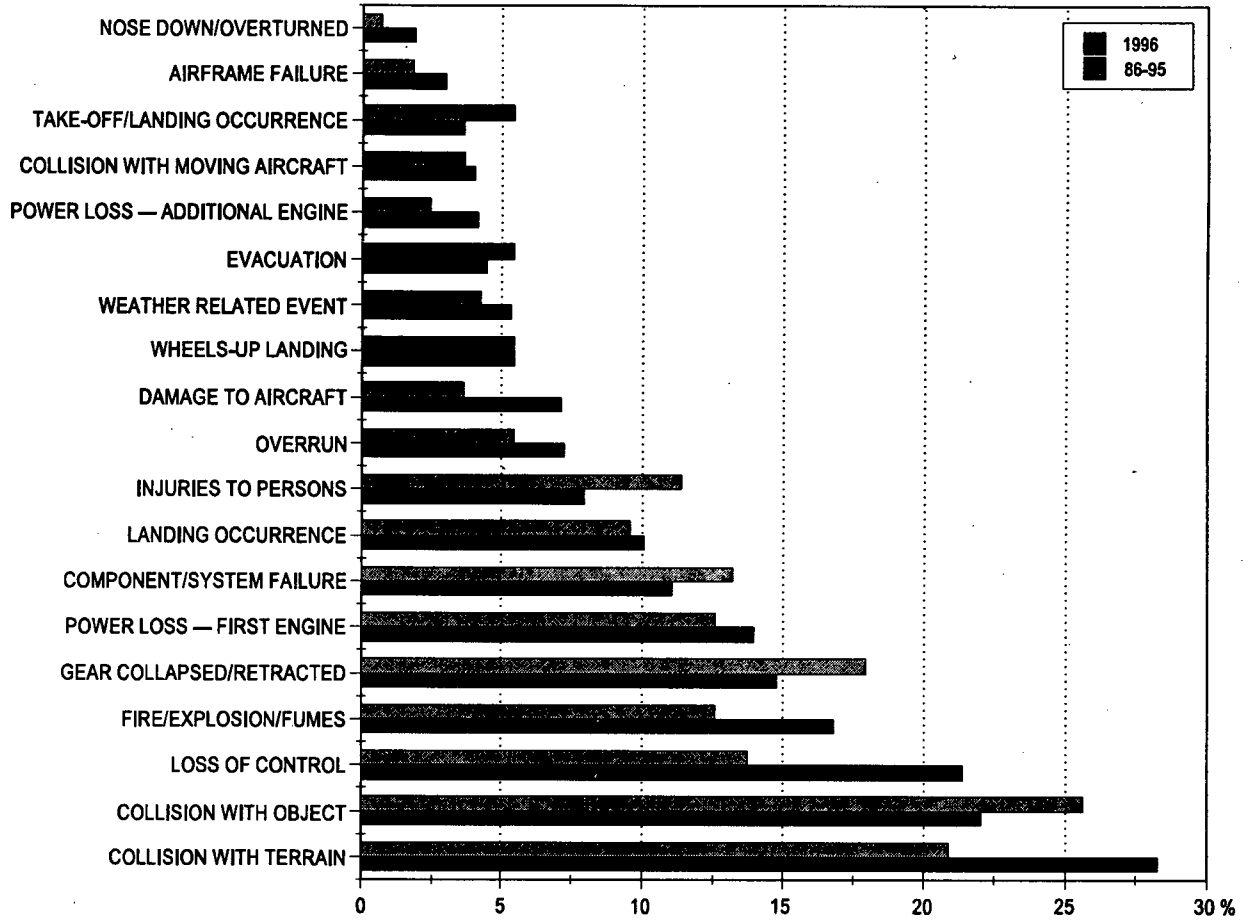
Phase of operation



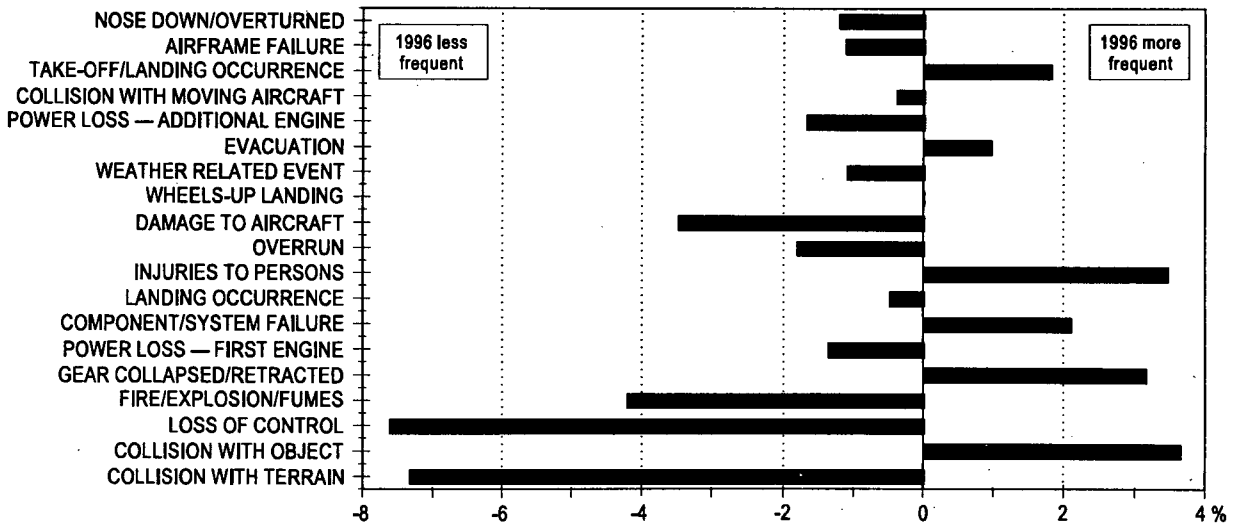
Comparison of 1986 — 1995 with 1996



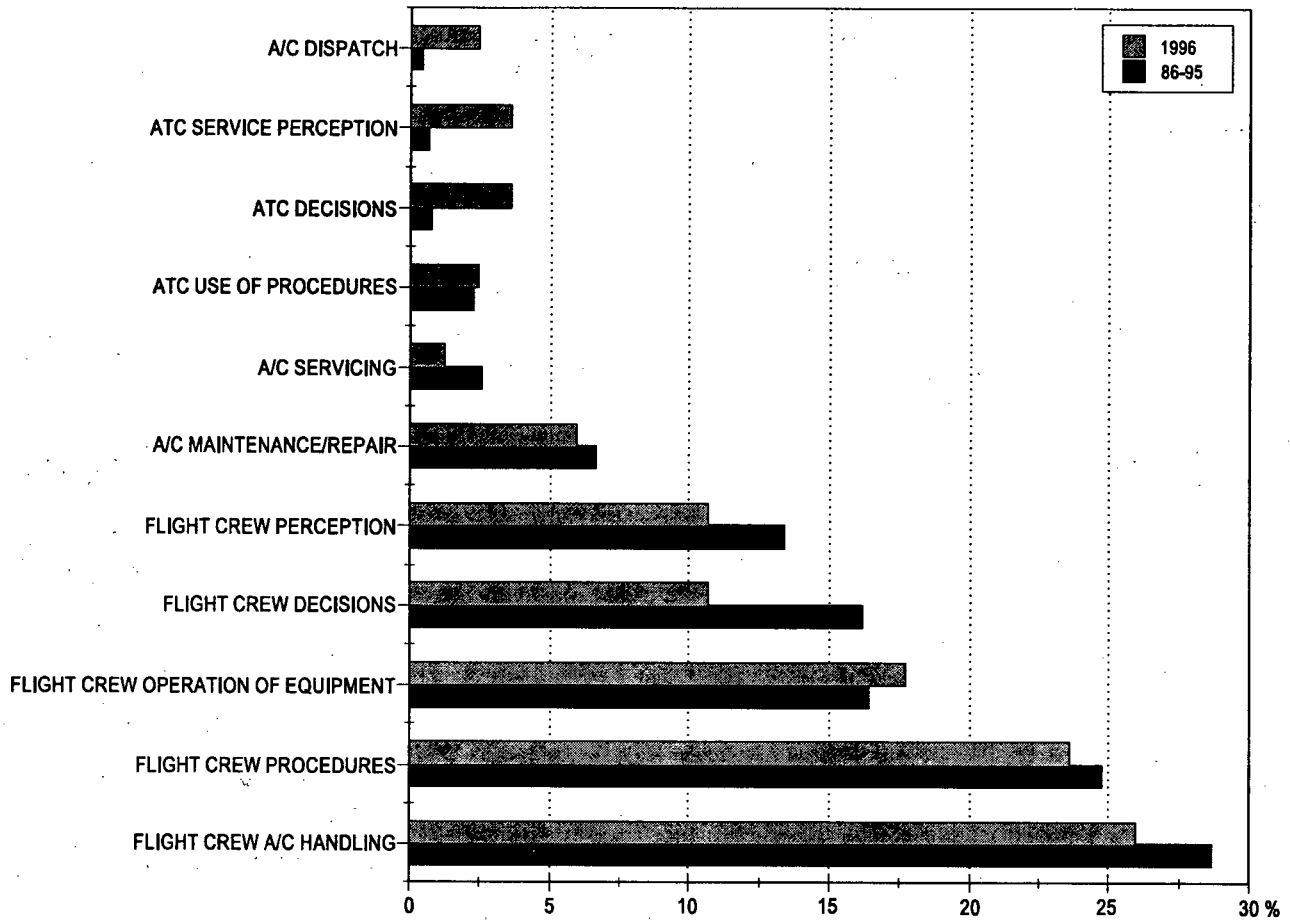
Type of event



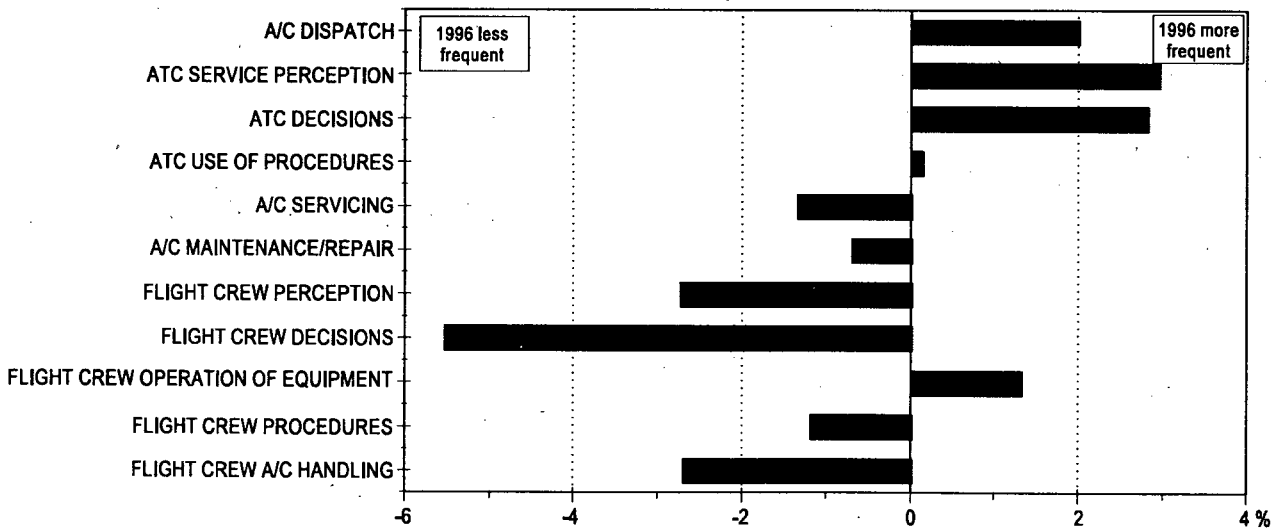
Comparison of 1986 — 1995 with 1996



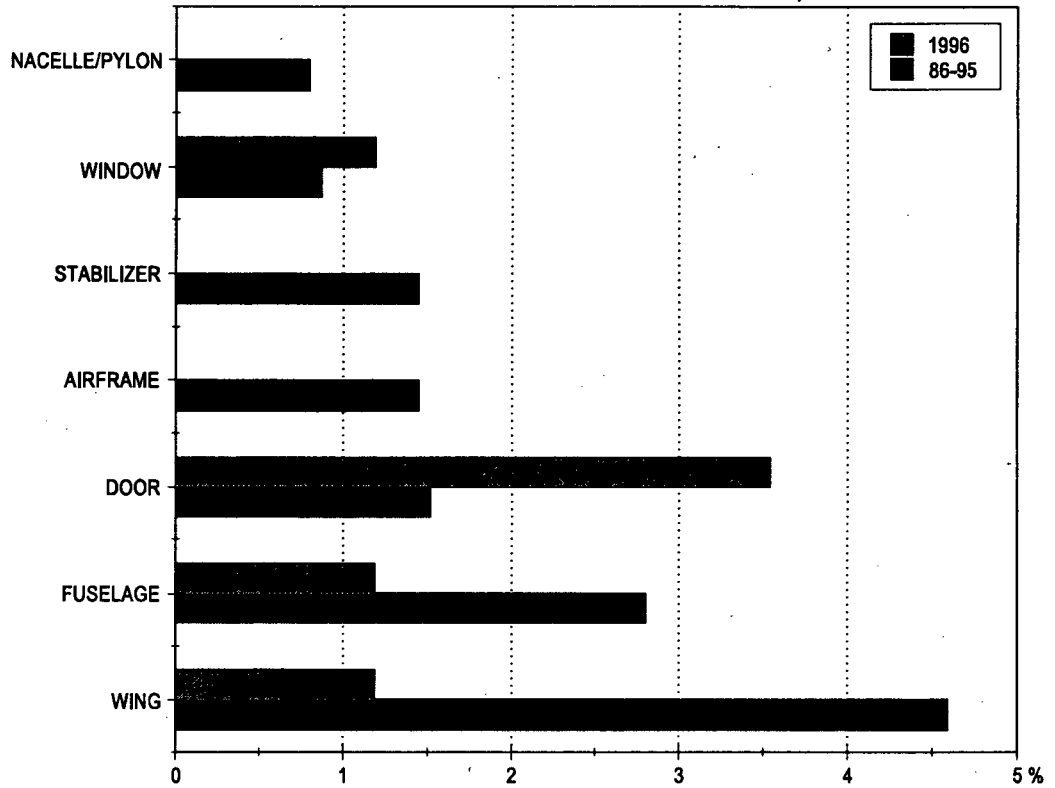
Personnel factors



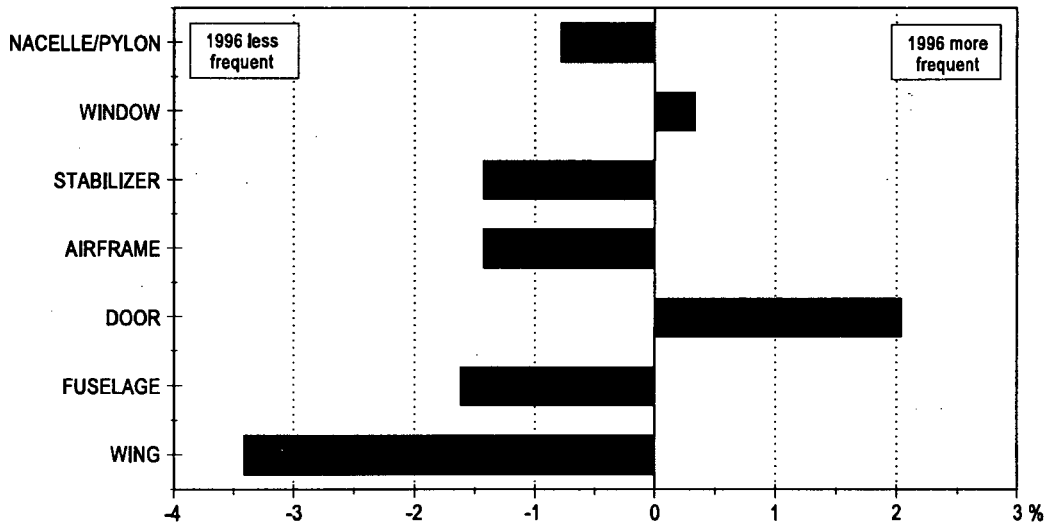
Comparison of 1986 — 1995 with 1996



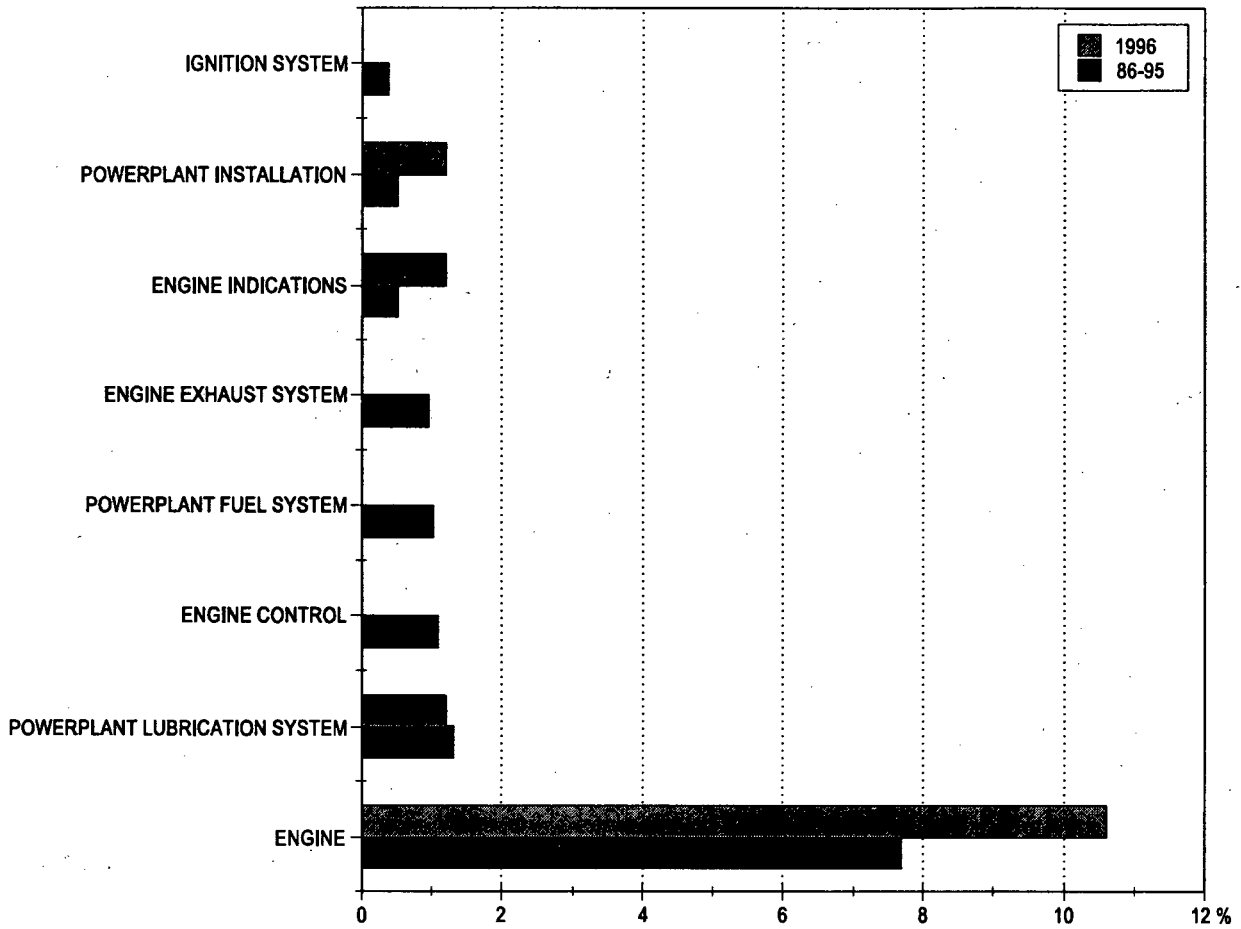
Airframe factors



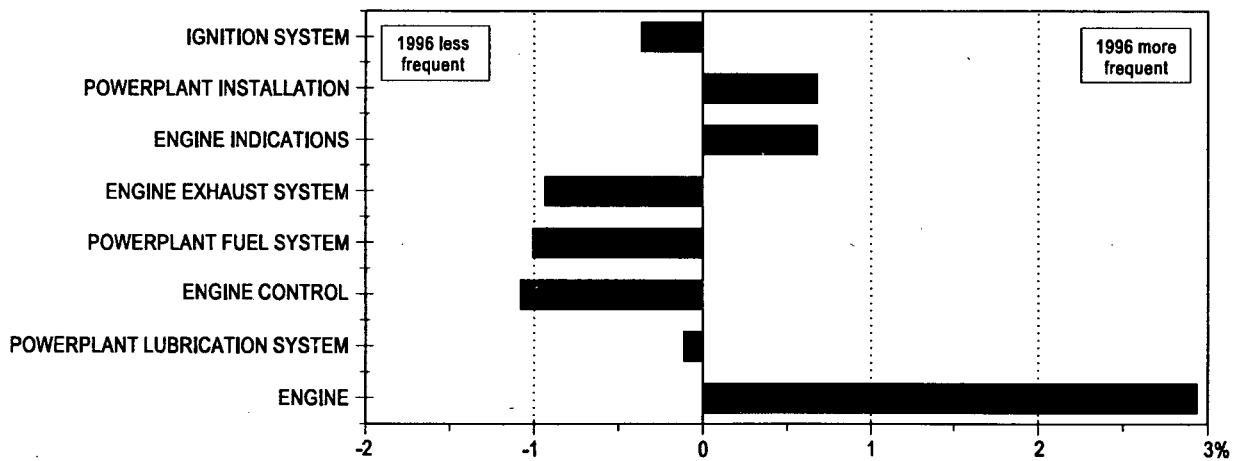
Comparison of 1986 — 1995 with 1996



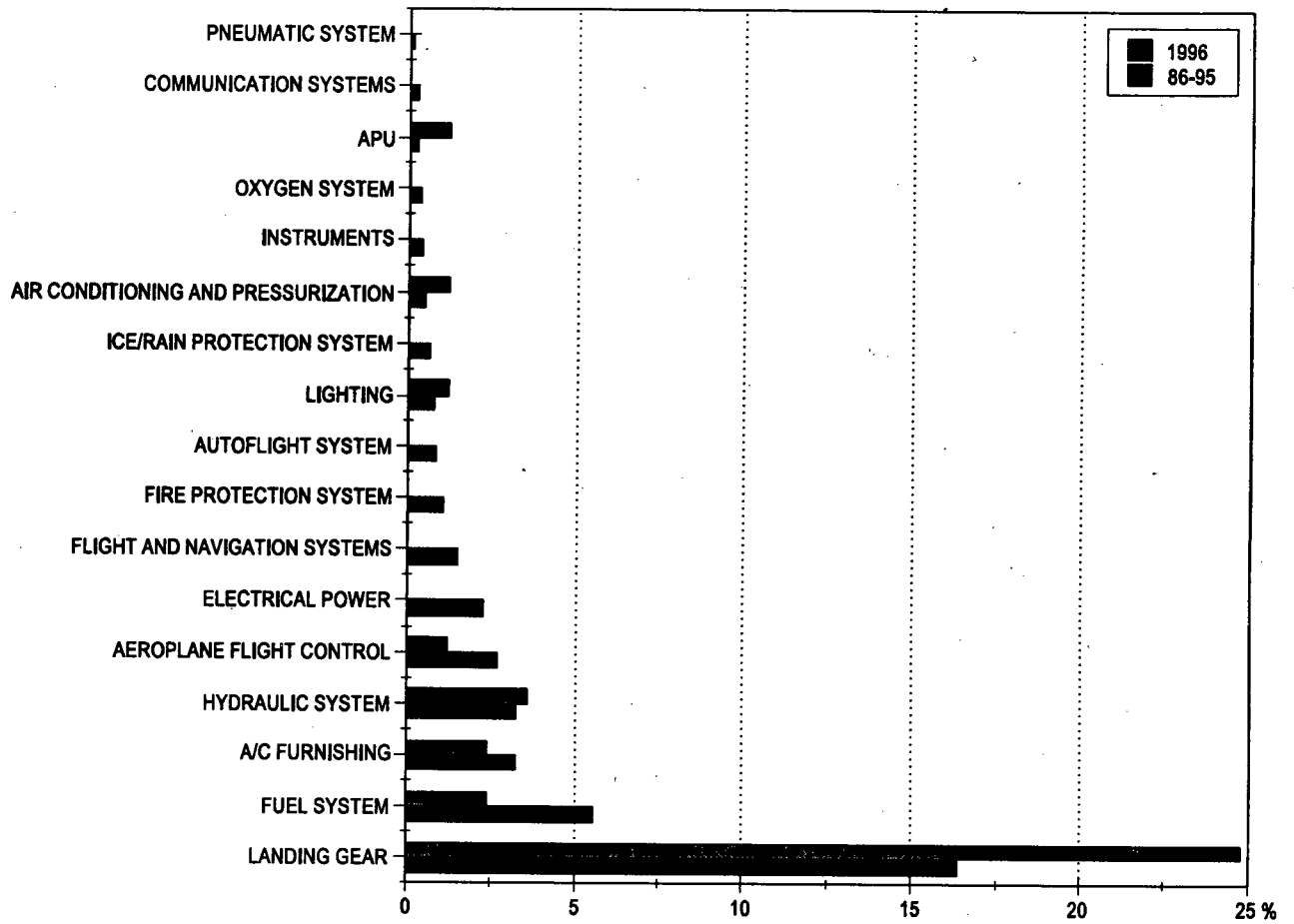
Powerplant factors



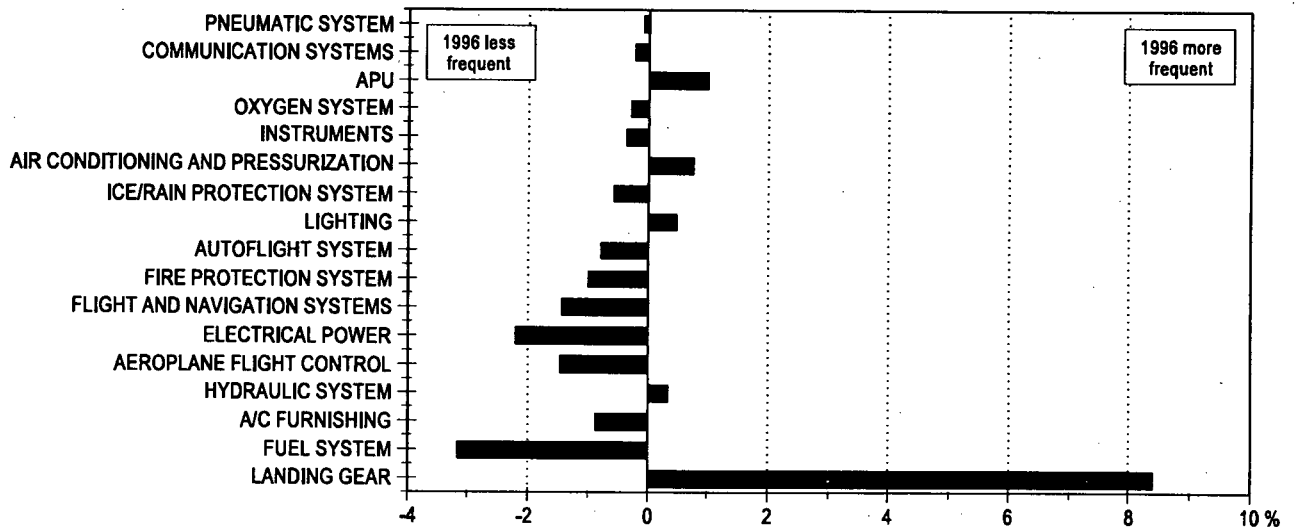
Comparison of 1986 — 1995 with 1996



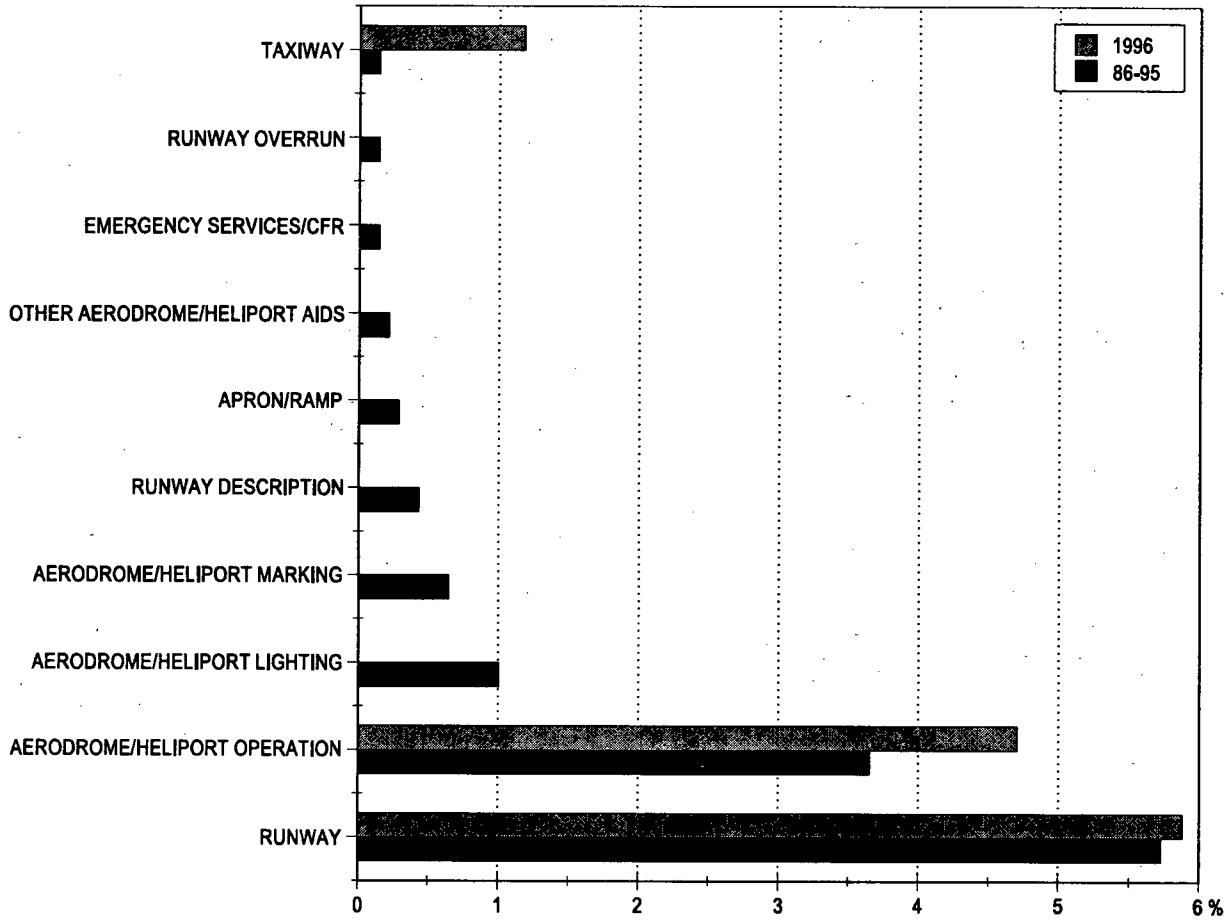
System factors



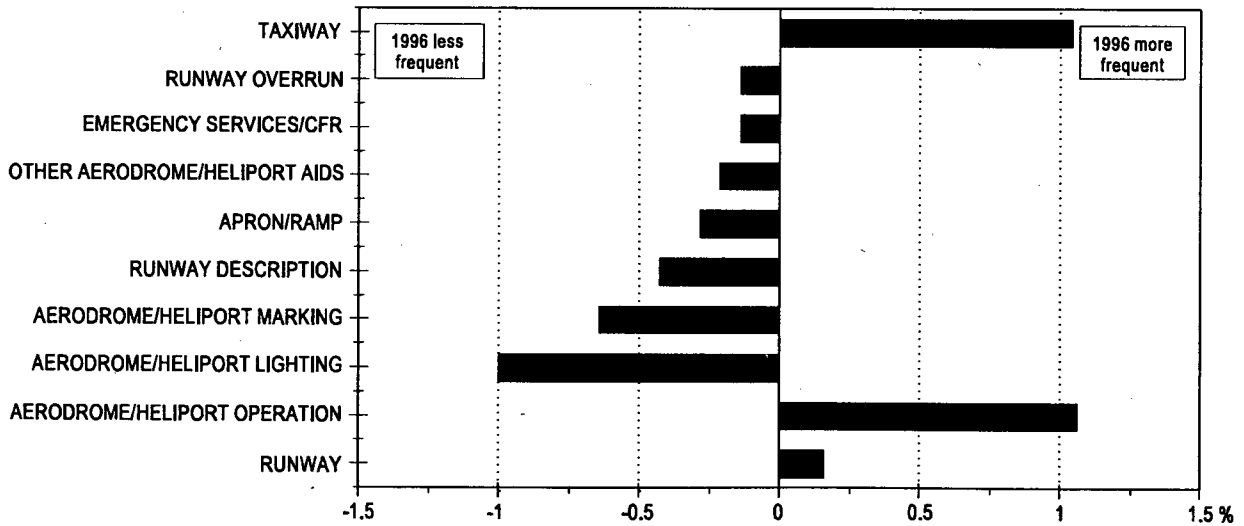
Comparison of 1986 — 1995 with 1996



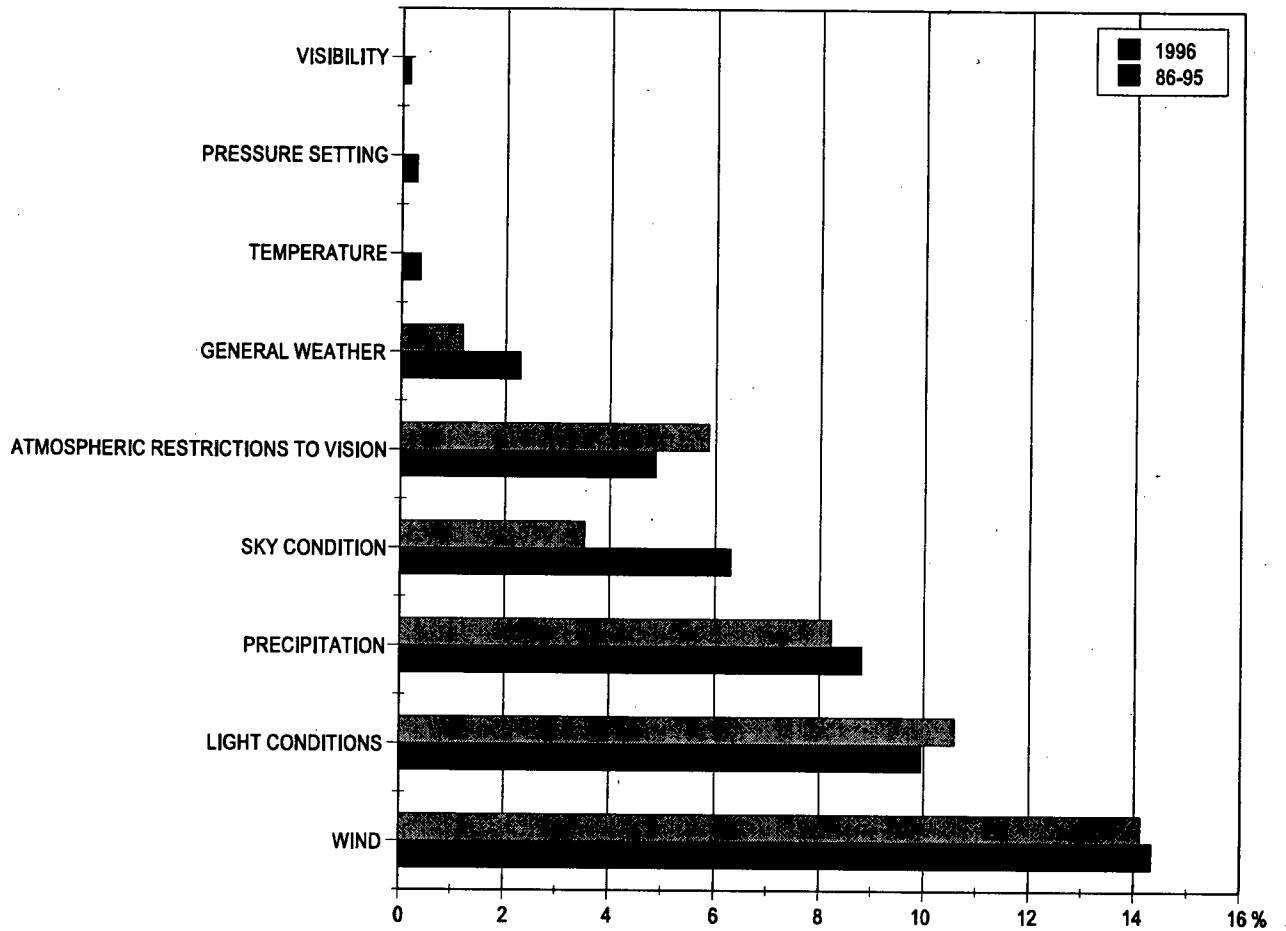
Aerodrome factors



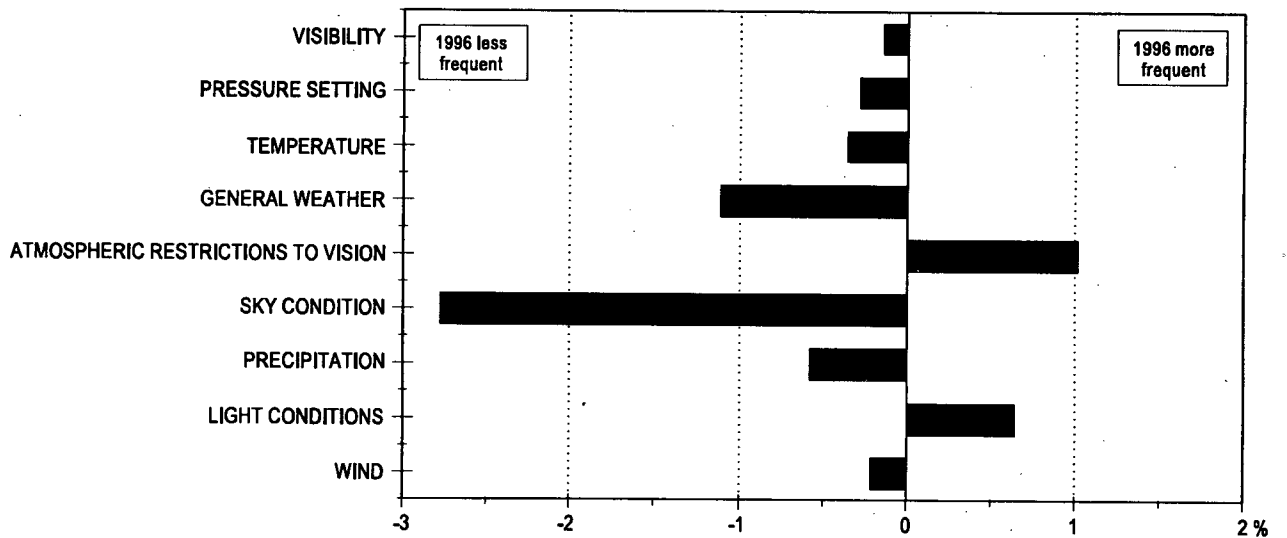
Comparison of 1986 — 1995 with 1996



Weather factors



Comparison of 1986 — 1995 with 1996

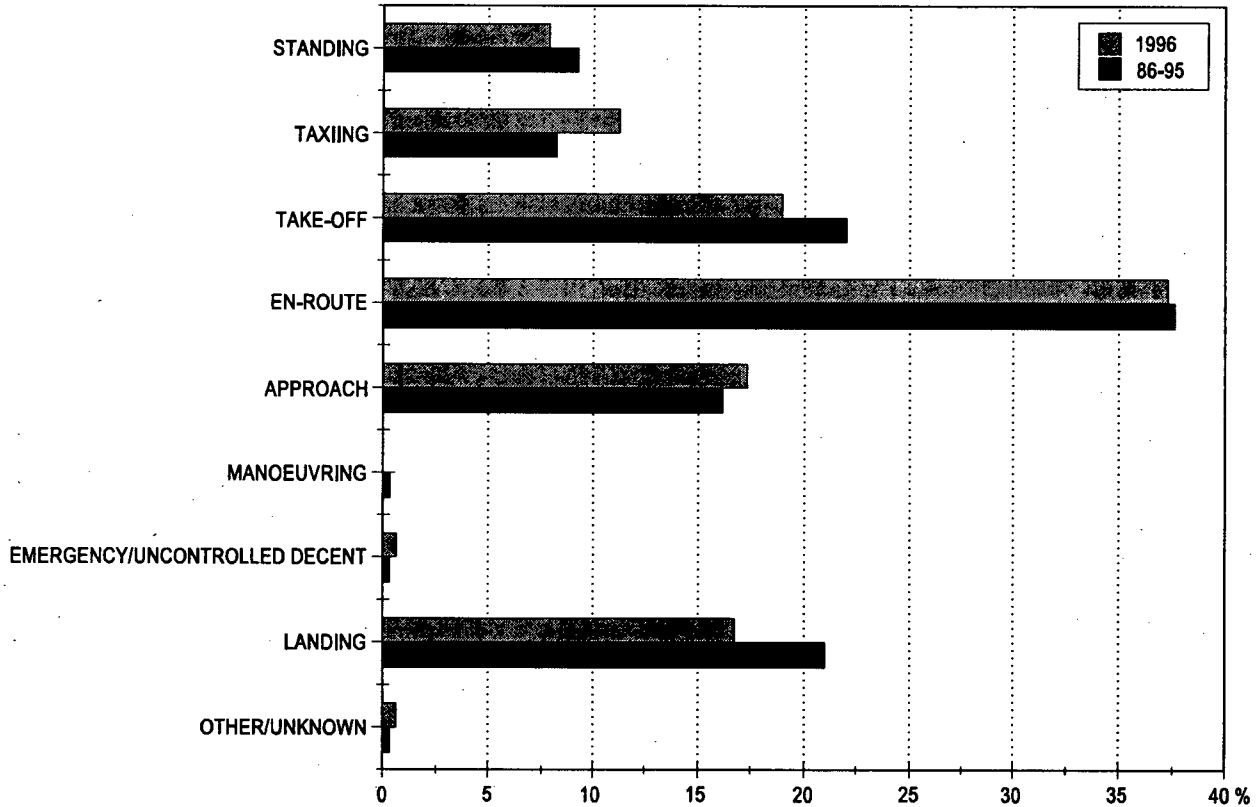


FIXED WING AIRCRAFT

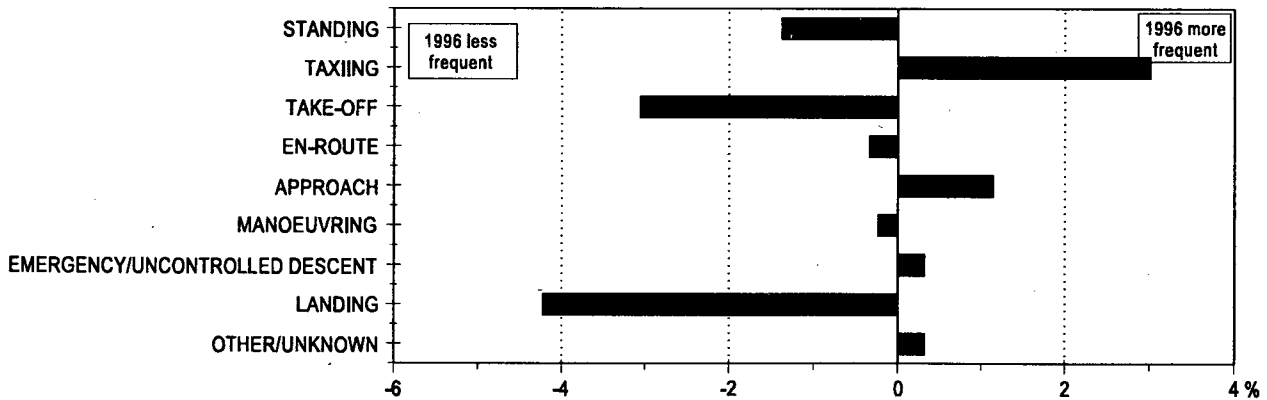
Airline operations

Incidents

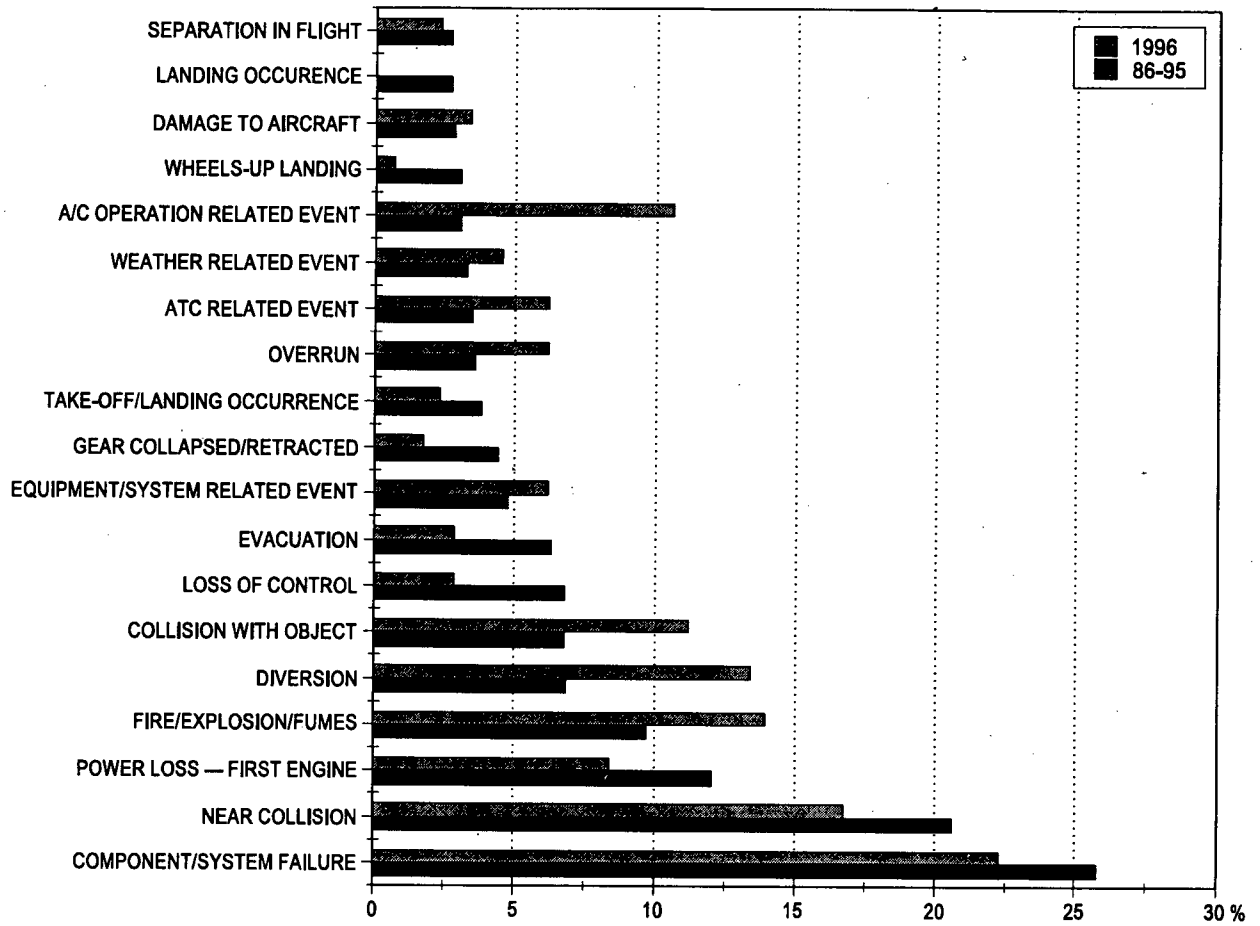
Phase of operation



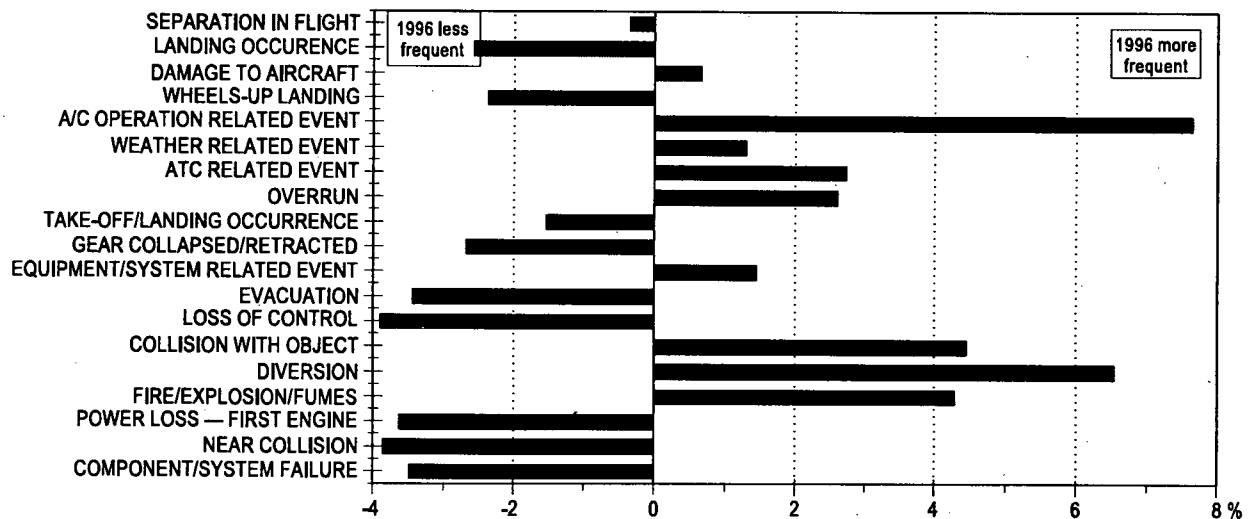
Comparison of 1986 — 1995 with 1996



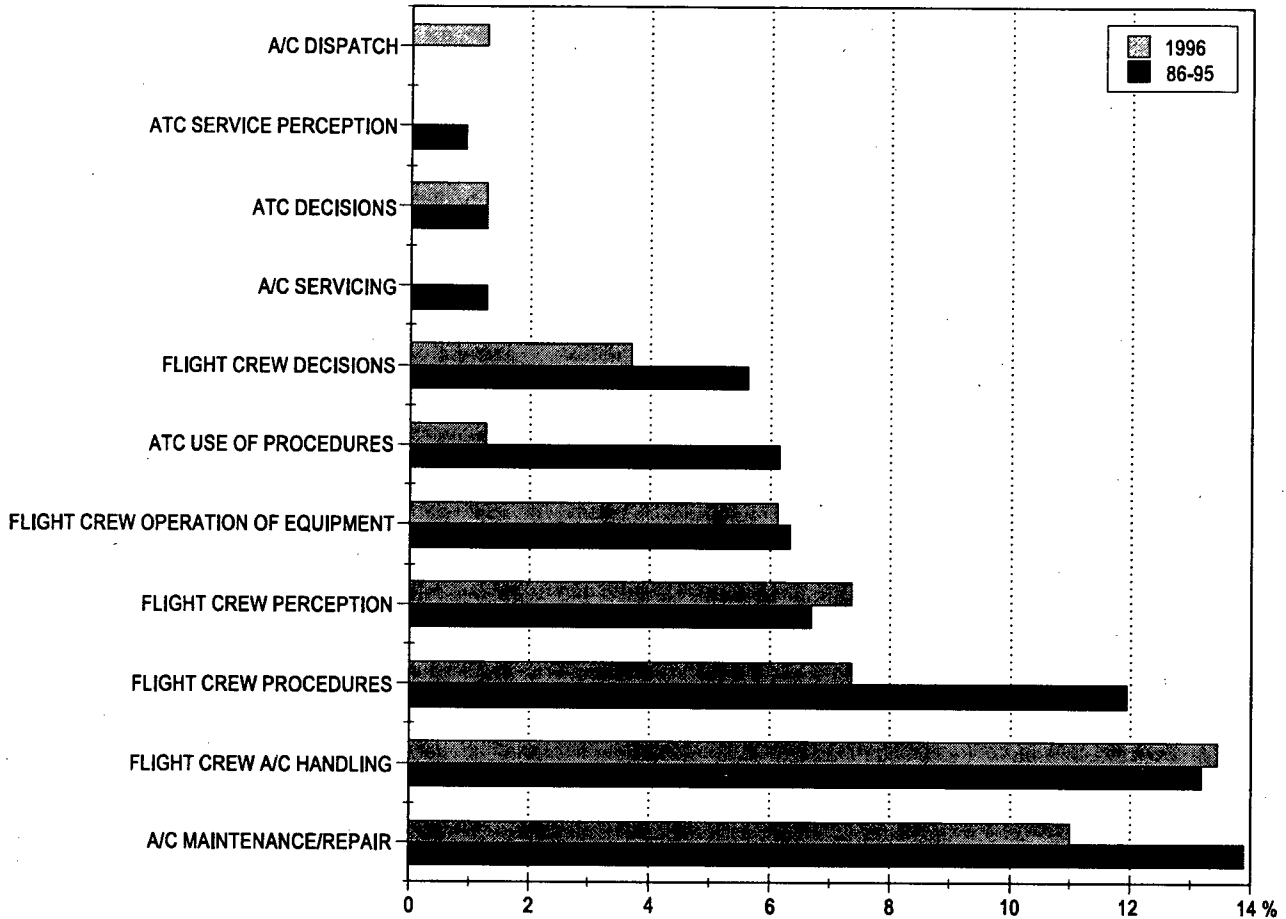
Type of event



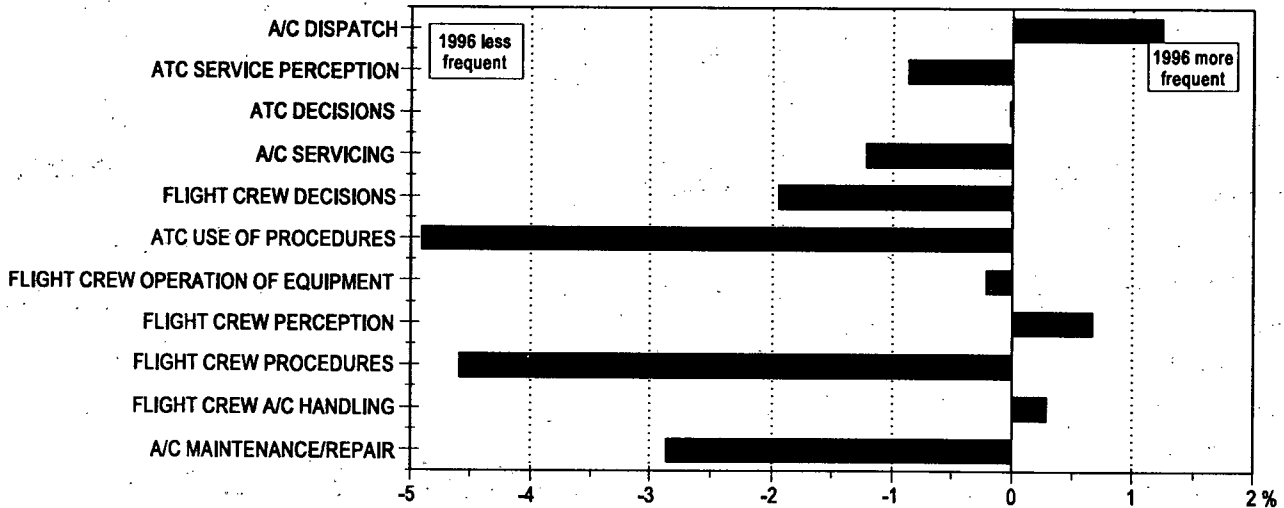
Comparison of 1986 — 1995 with 1996



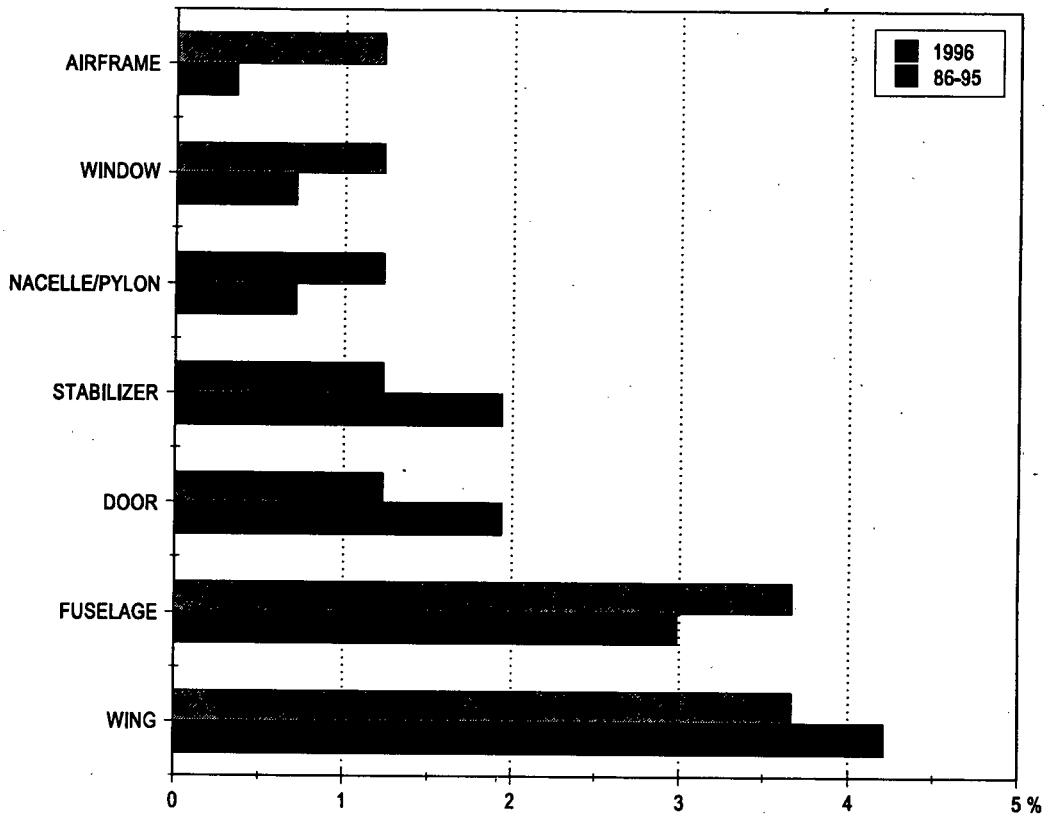
Personnel factors



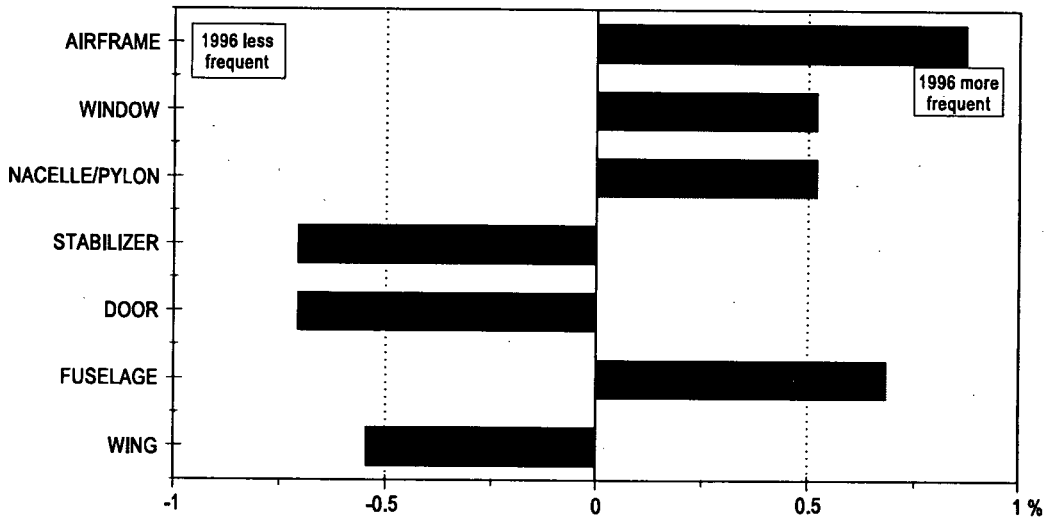
Comparison of 1986 — 1995 with 1996



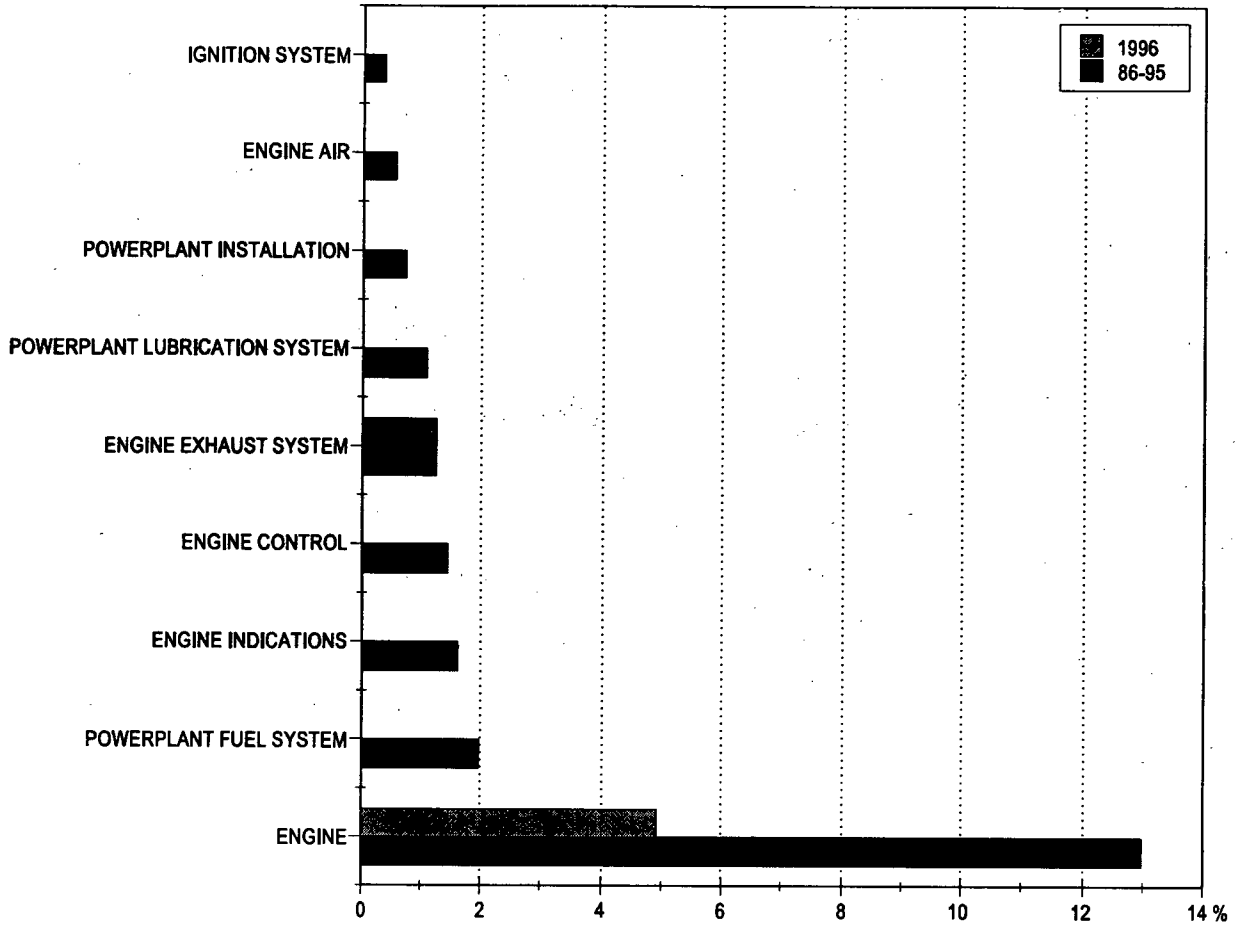
Airframe factors



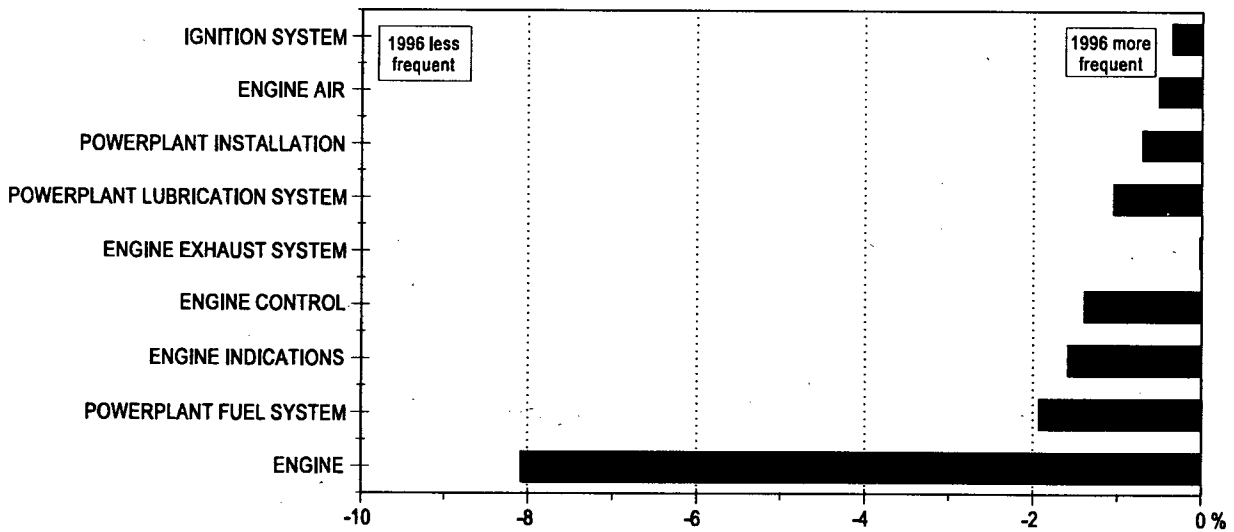
Comparison of 1986 — 1995 with 1996



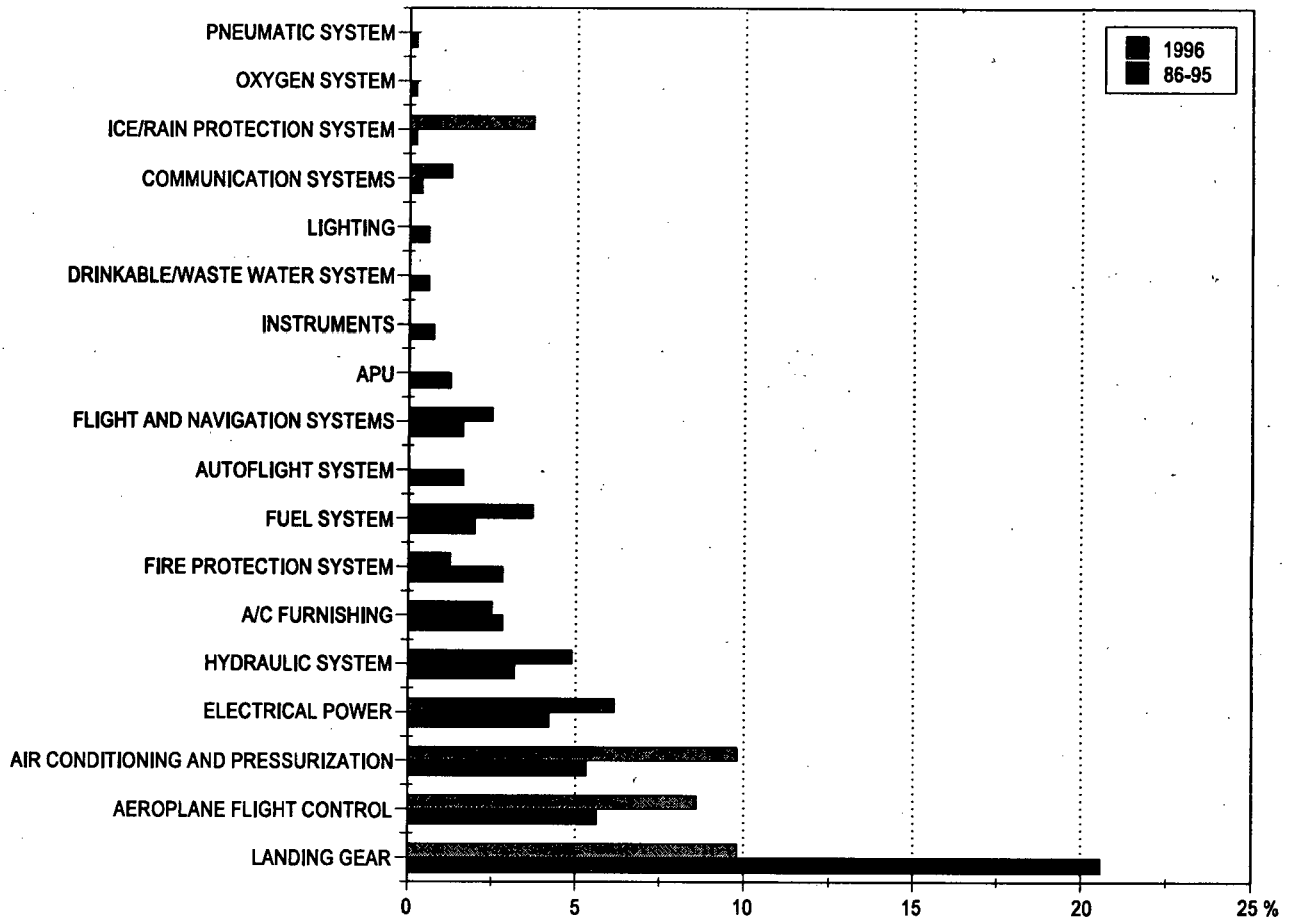
Powerplant factors



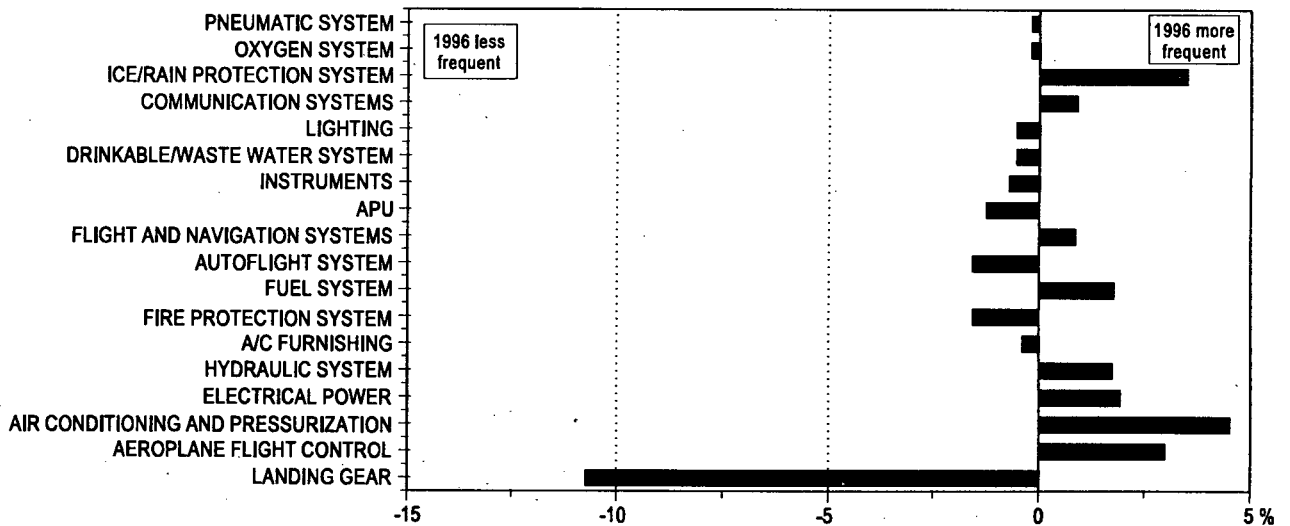
Comparison of 1986 — 1995 with 1996



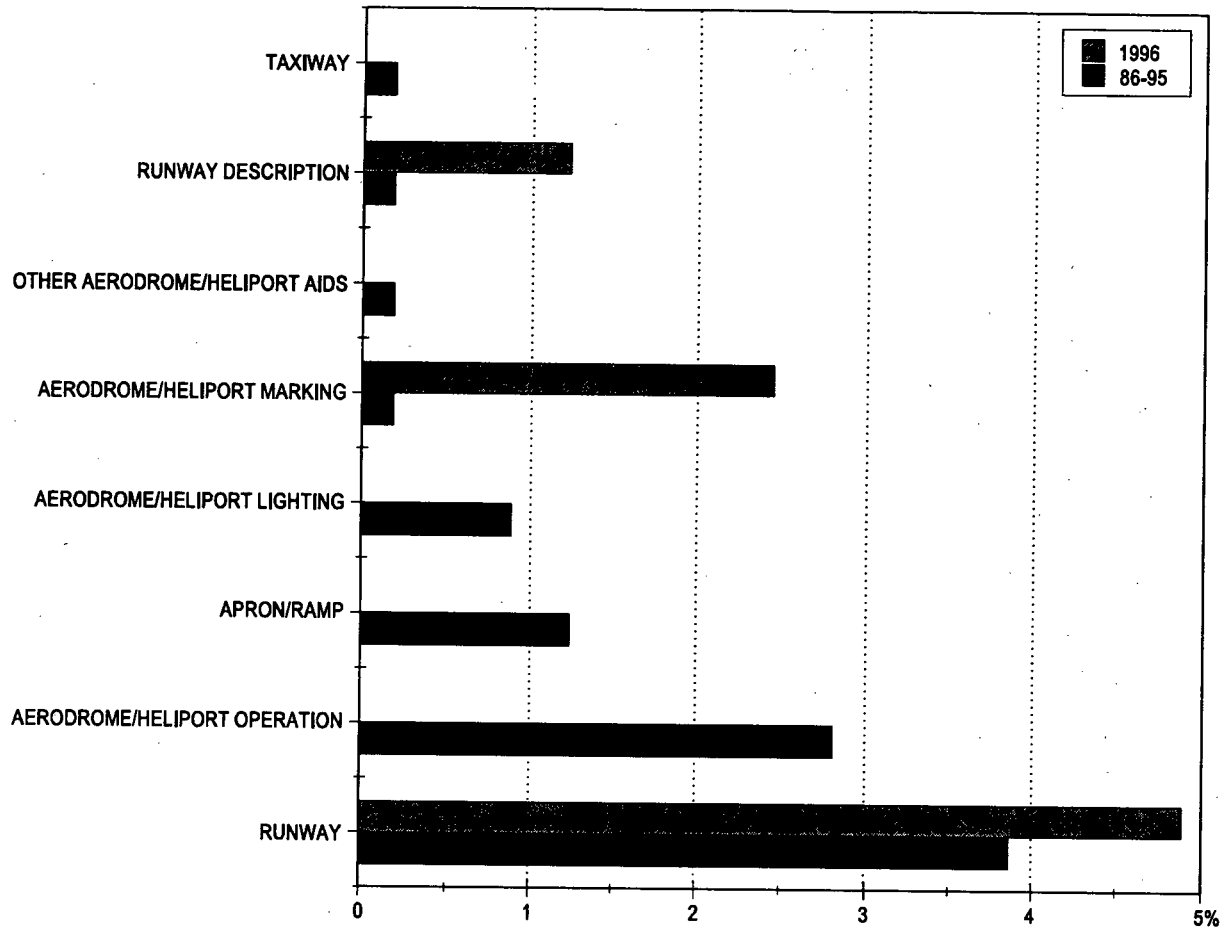
System factors



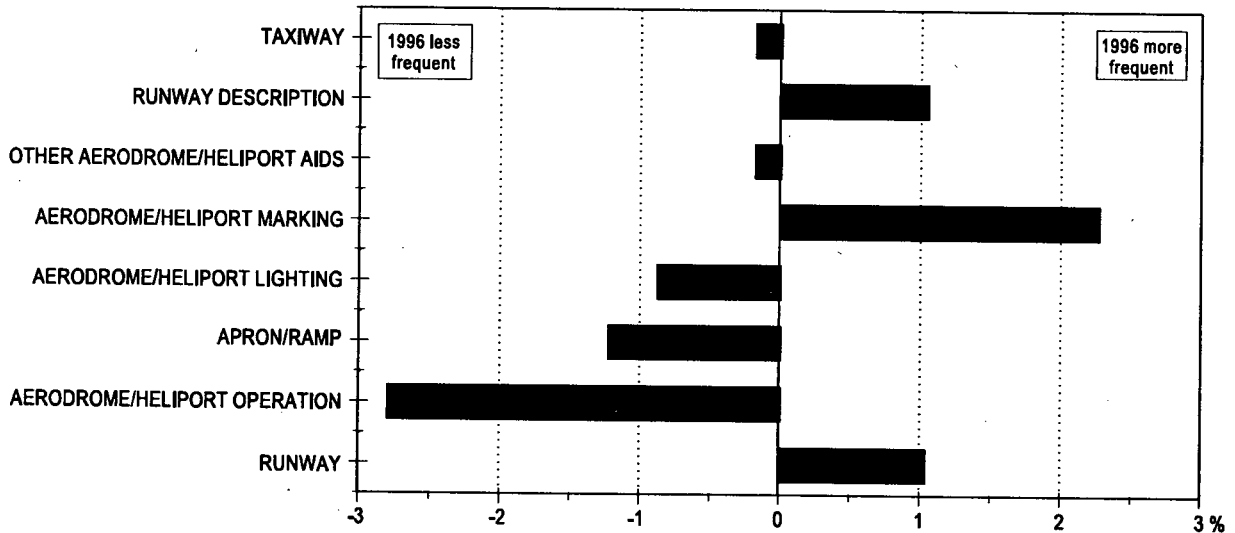
Comparison of 1986 — 1995 with 1996



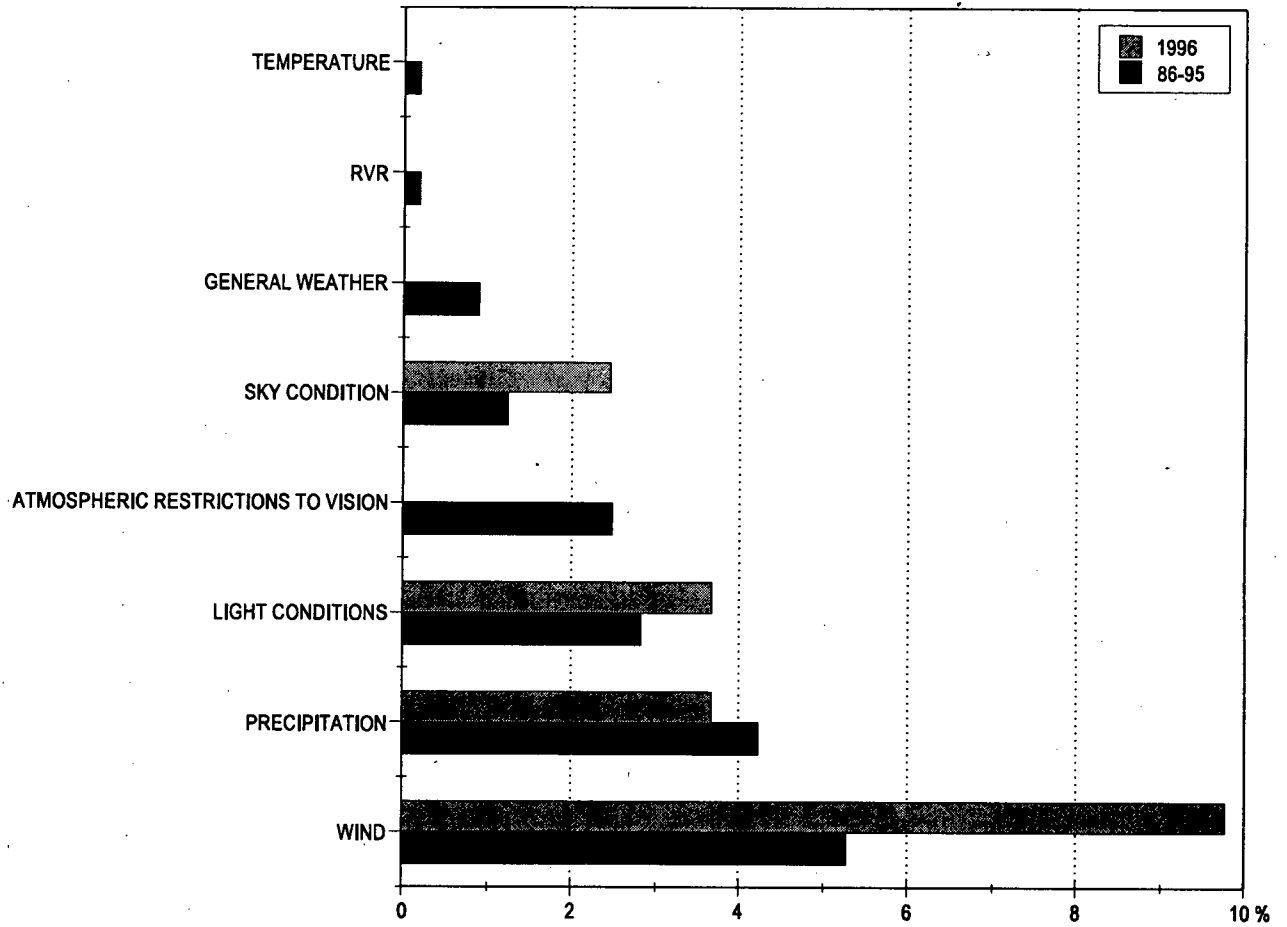
Aerodrome factors



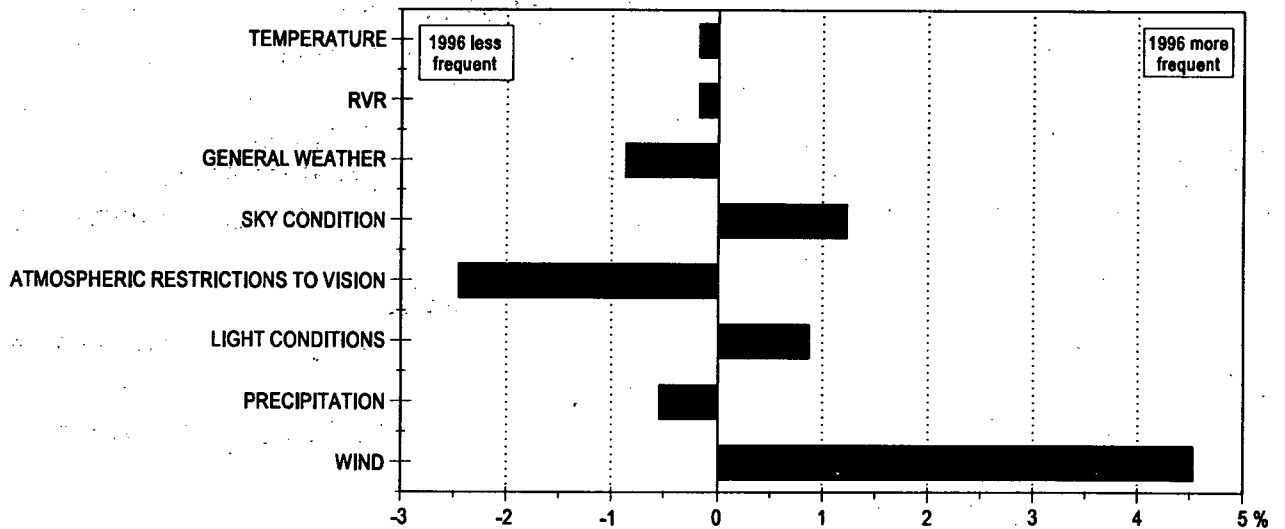
Comparison of 1986 — 1995 with 1996



Weather factors



Comparison of 1986 — 1995 with 1996

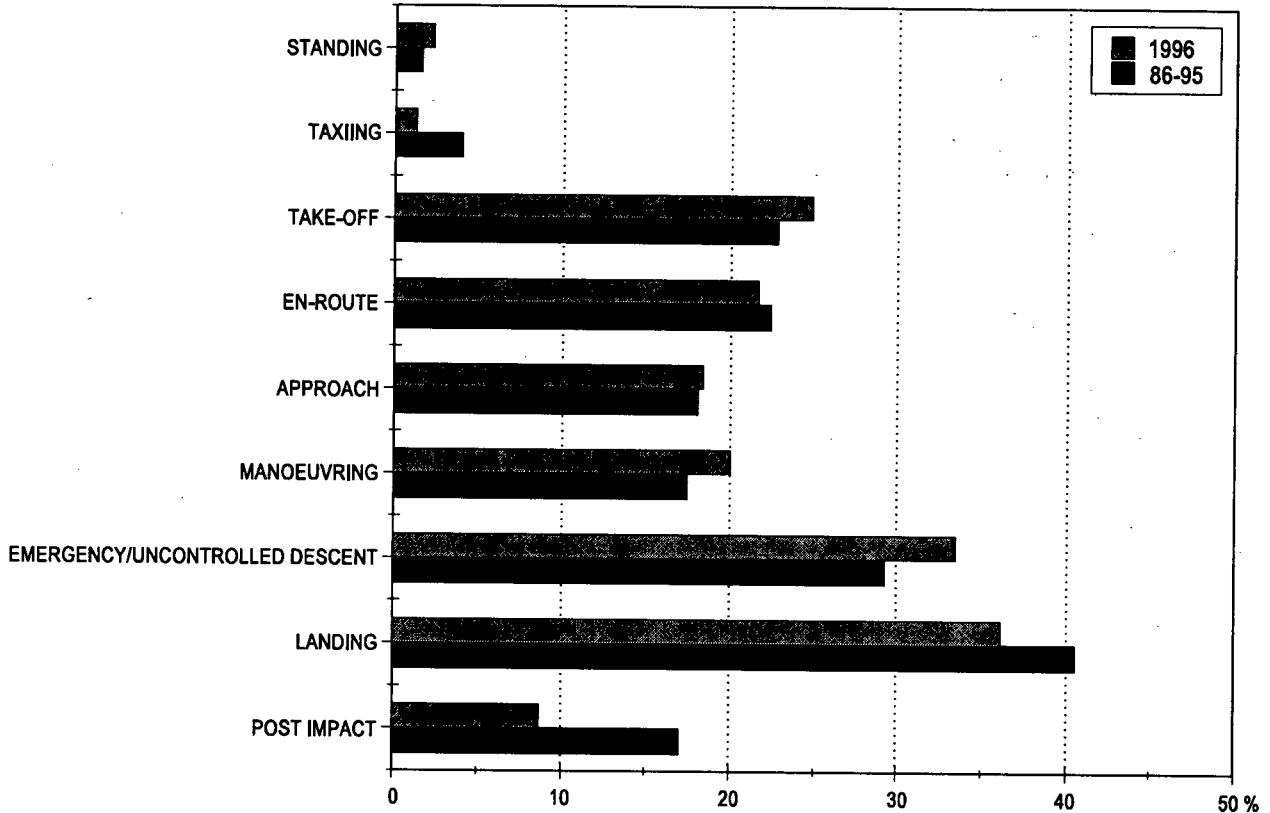


FIXED WING AIRCRAFT

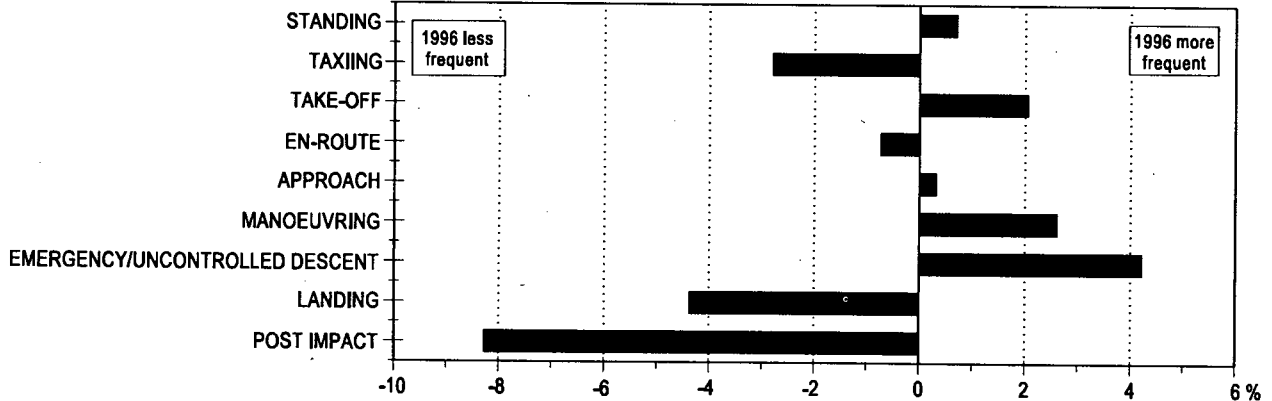
General Aviation

Accidents

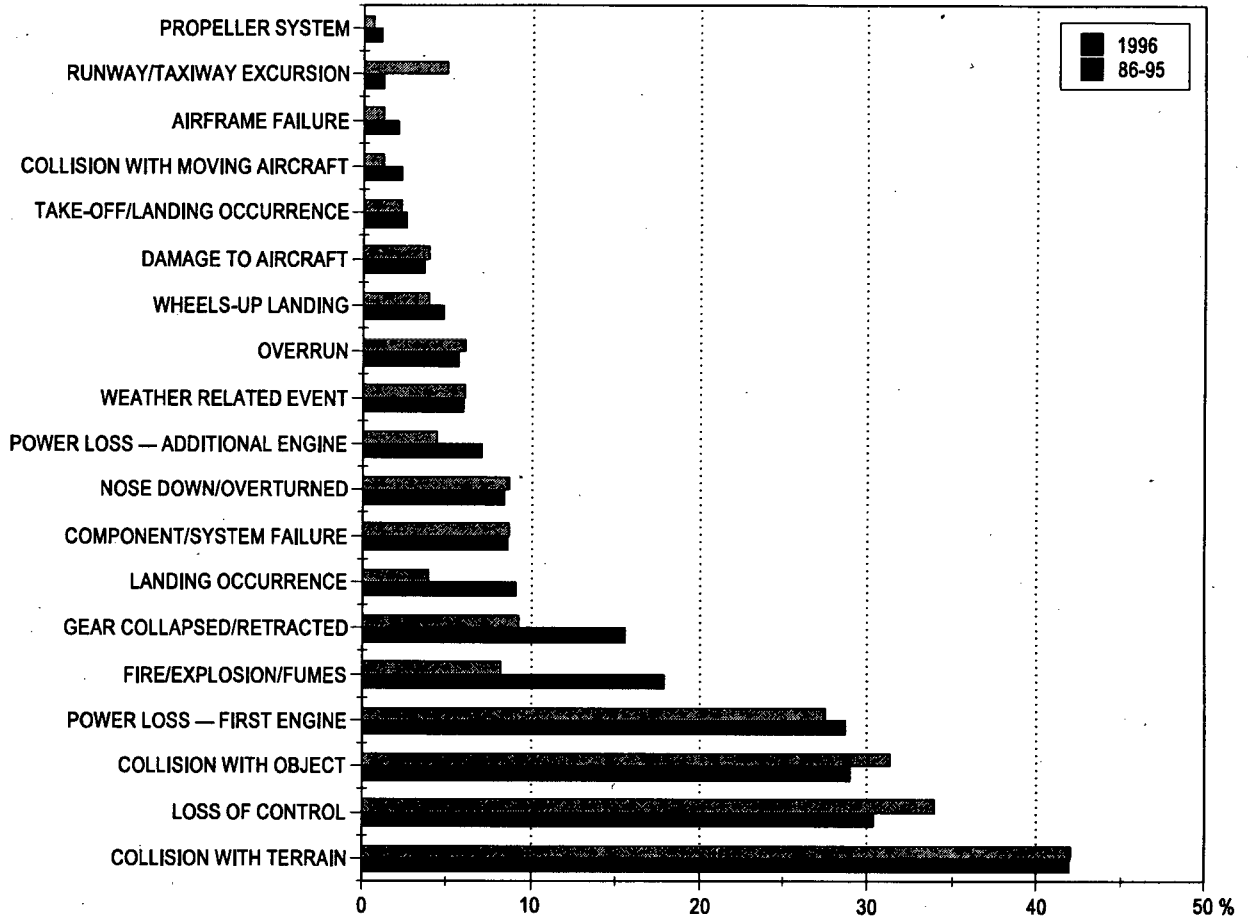
Phase of operation



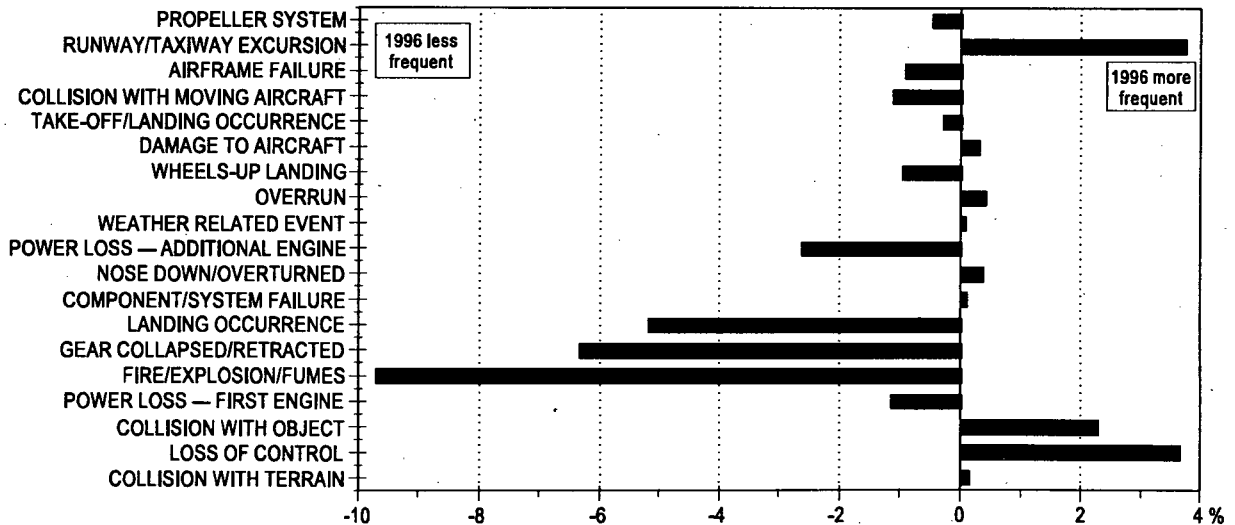
Comparison of 1986 — 1995 with 1996



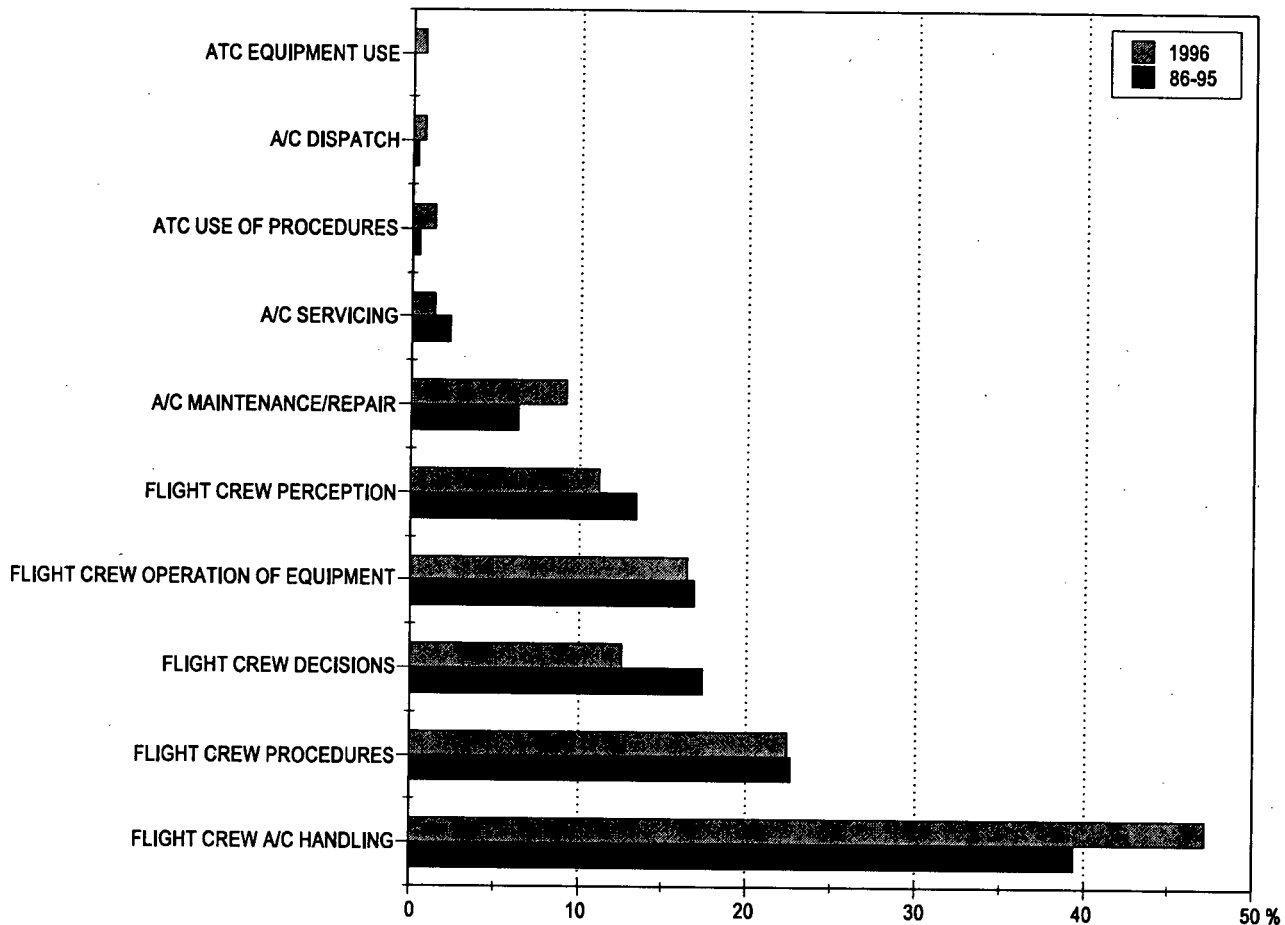
Type of event



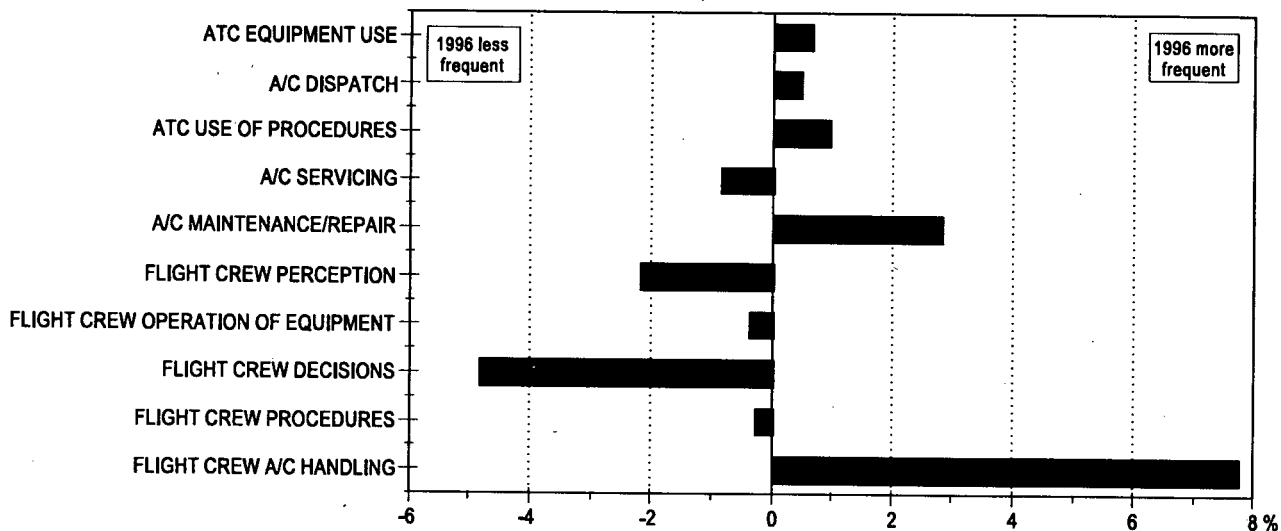
Comparison of 1986 — 1995 with 1996



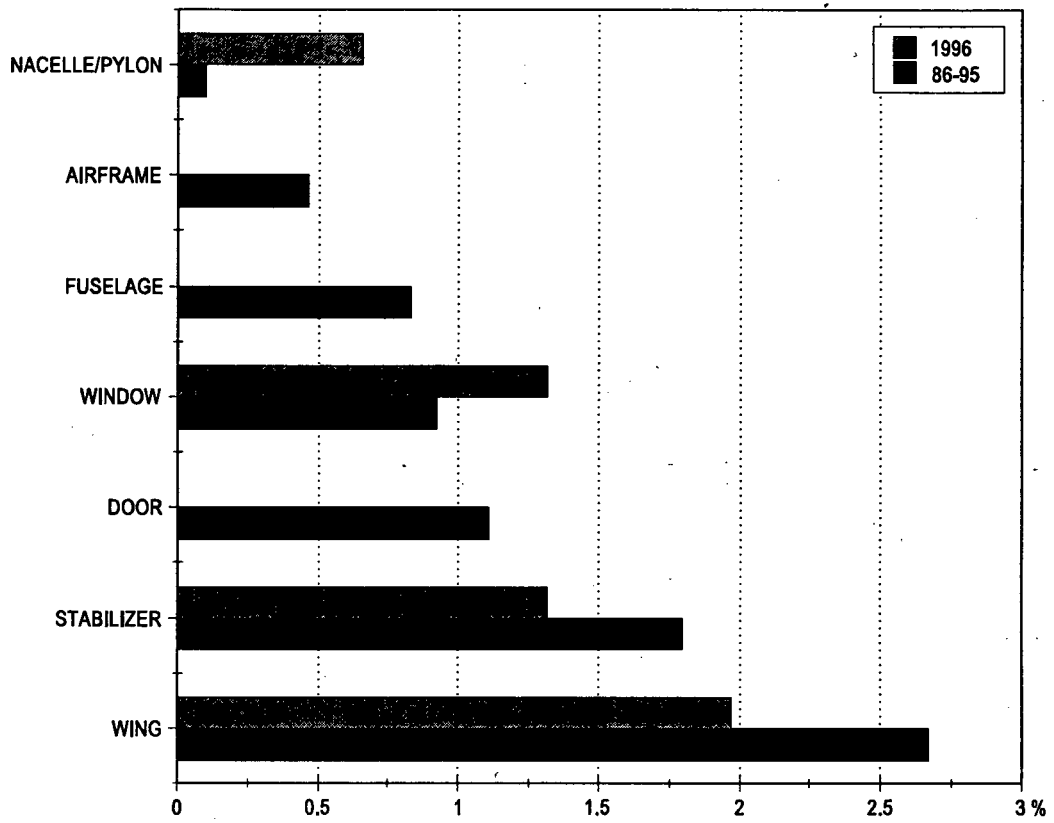
Personnel factors



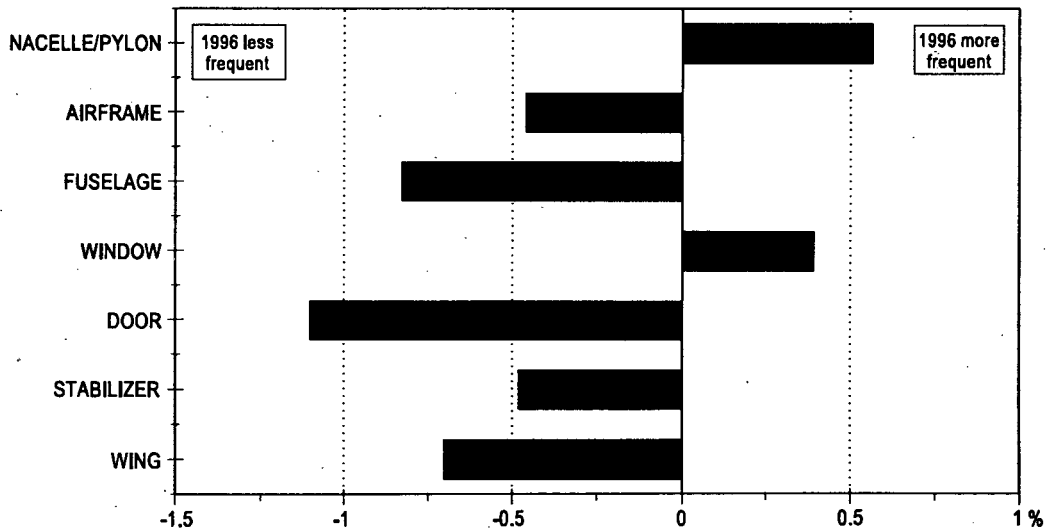
Comparison of 1986 — 1995 with 1996



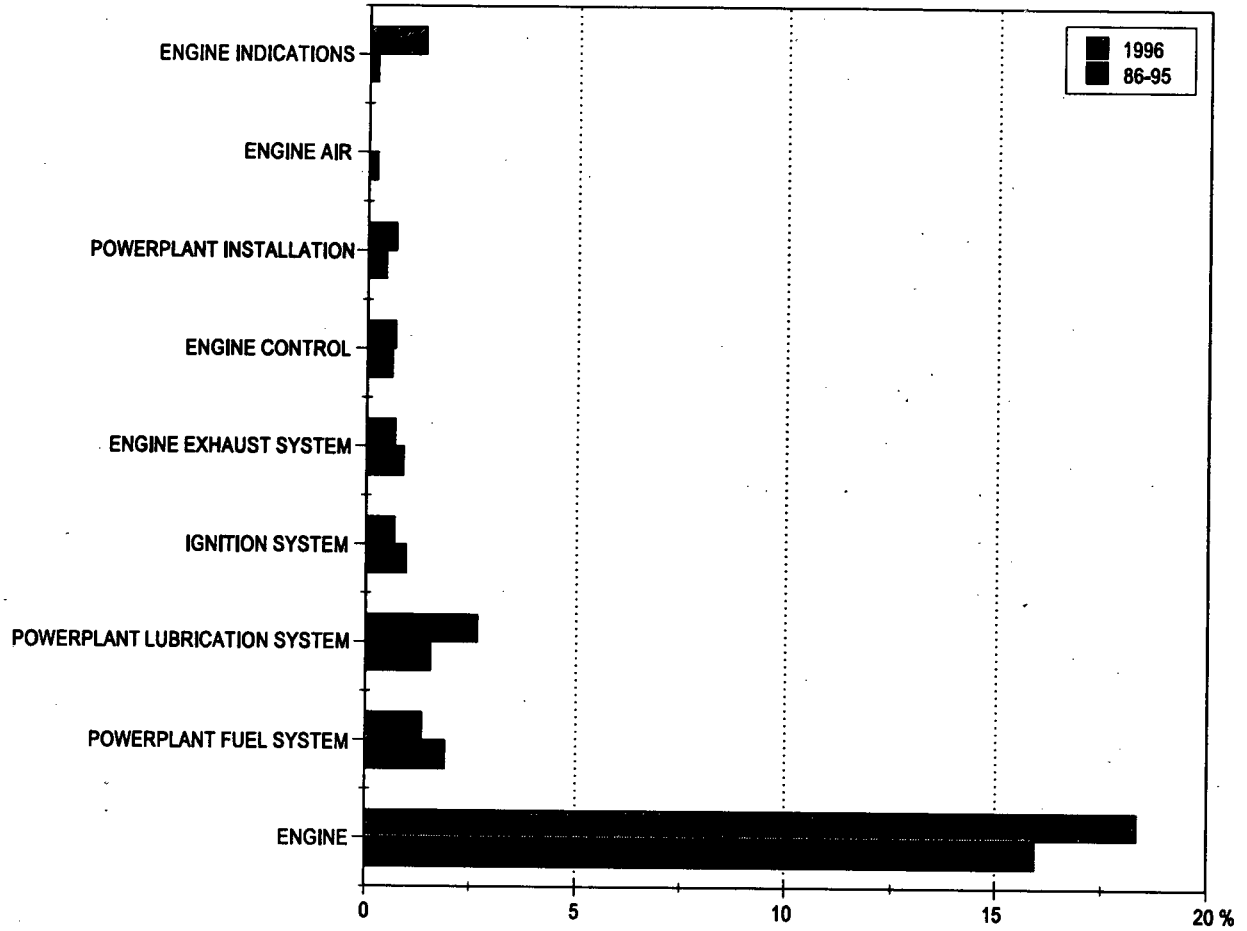
Airframe factors



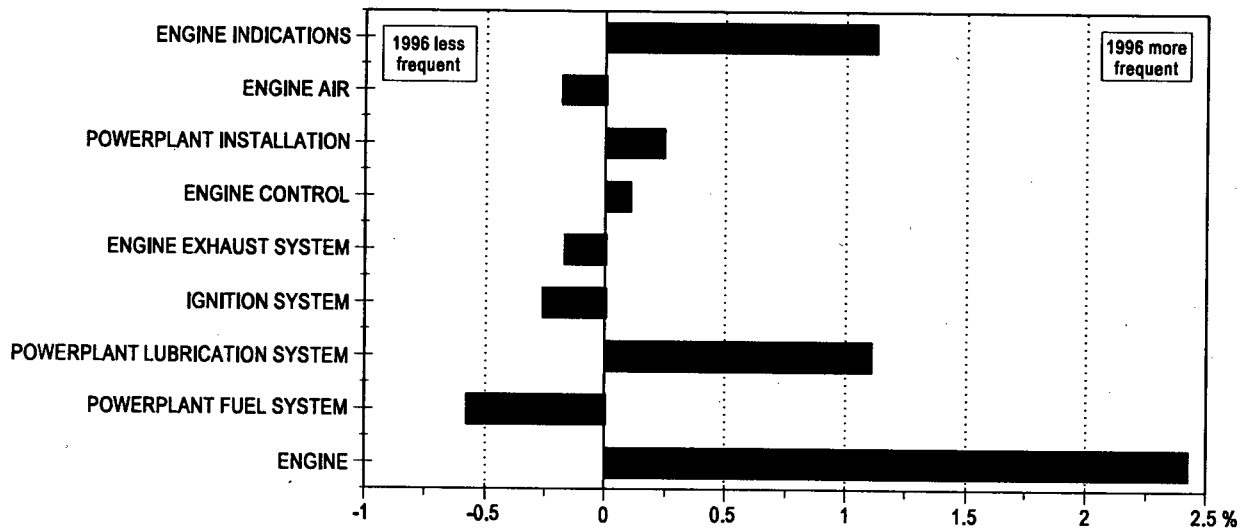
Comparison of 1986 — 1995 with 1996



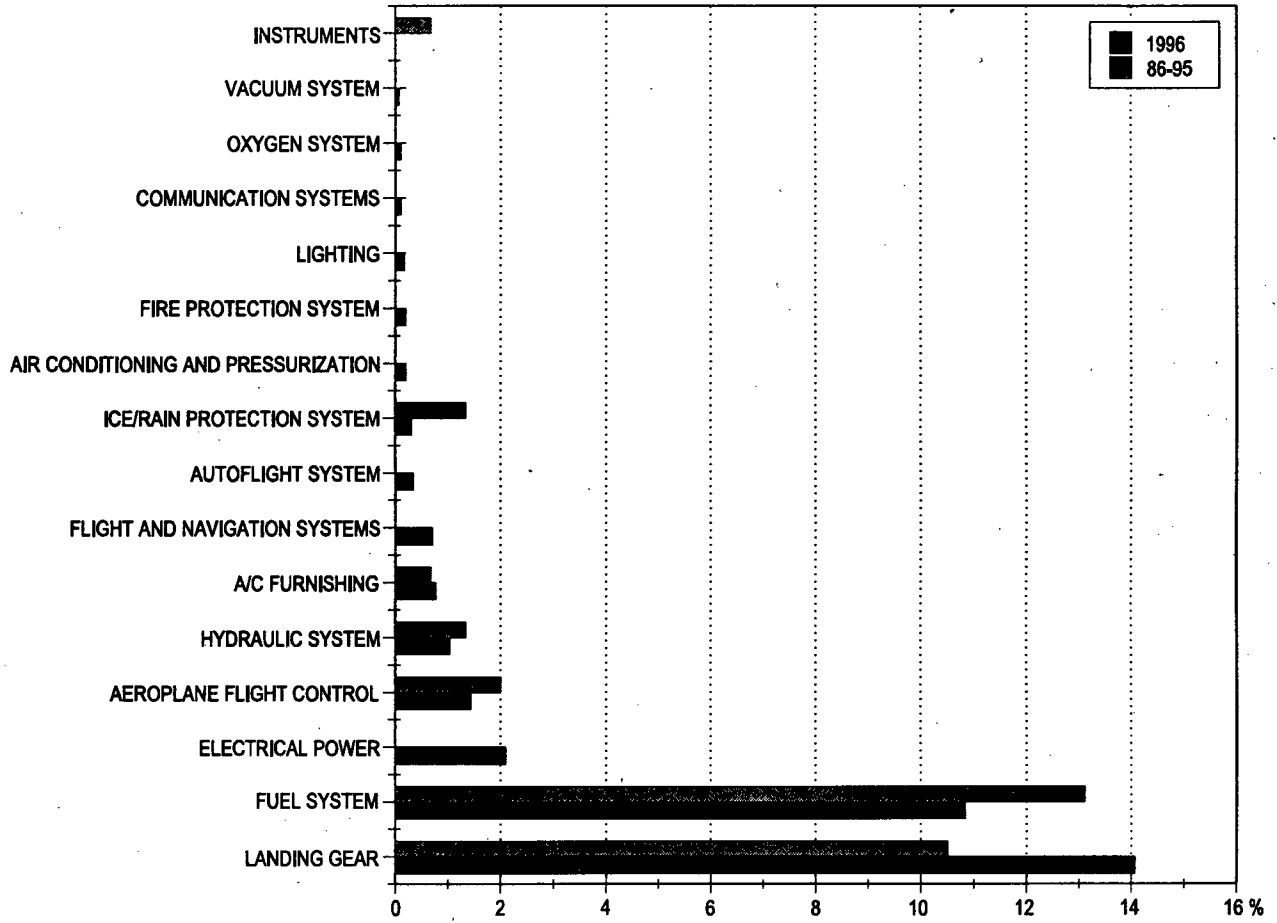
Powerplant factors



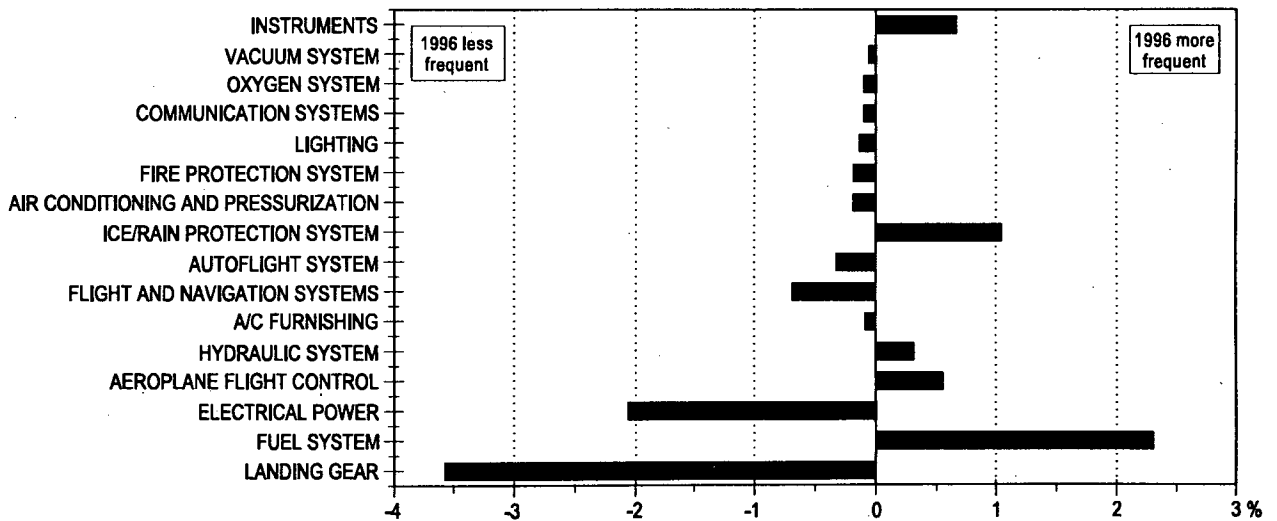
Comparison of 1986 — 1995 with 1996



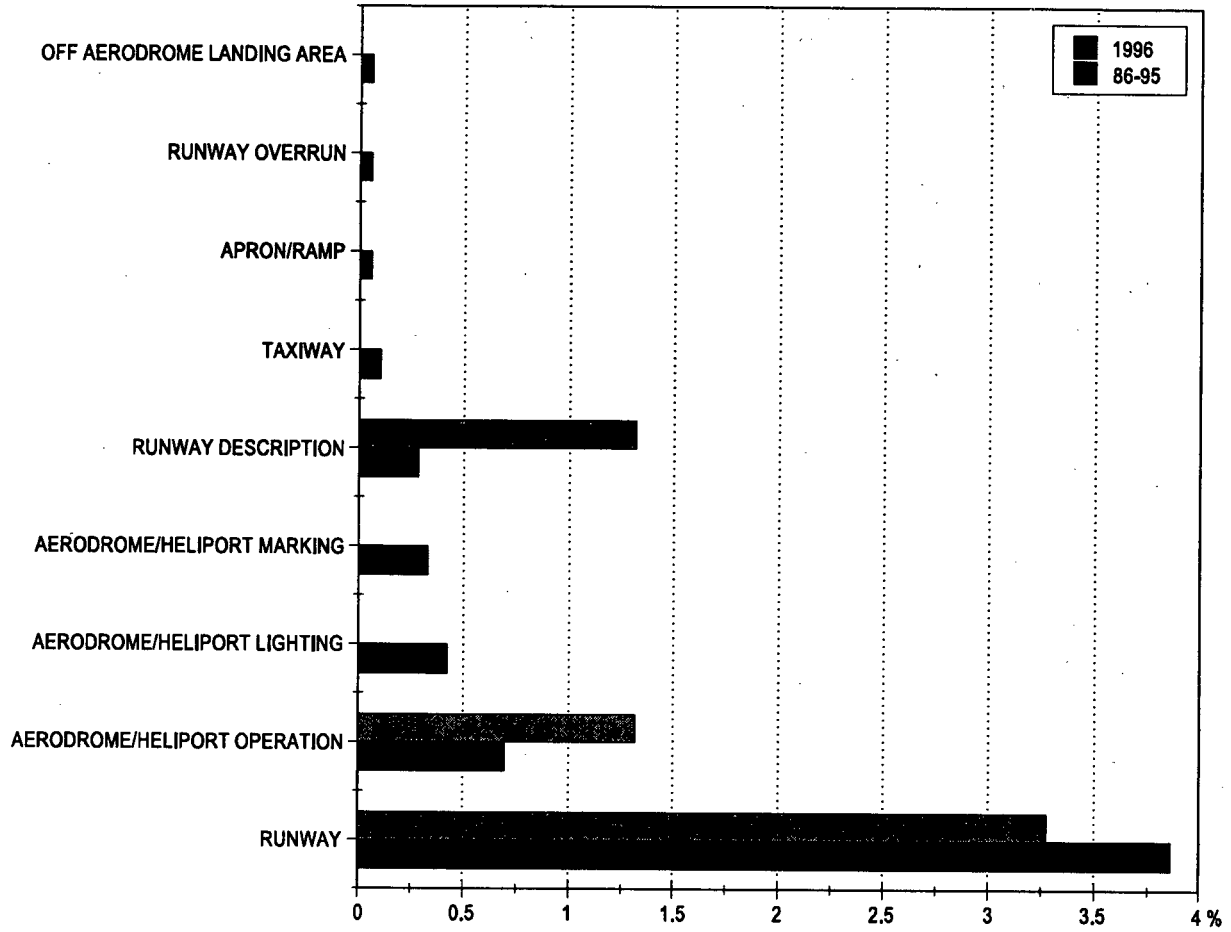
System factors



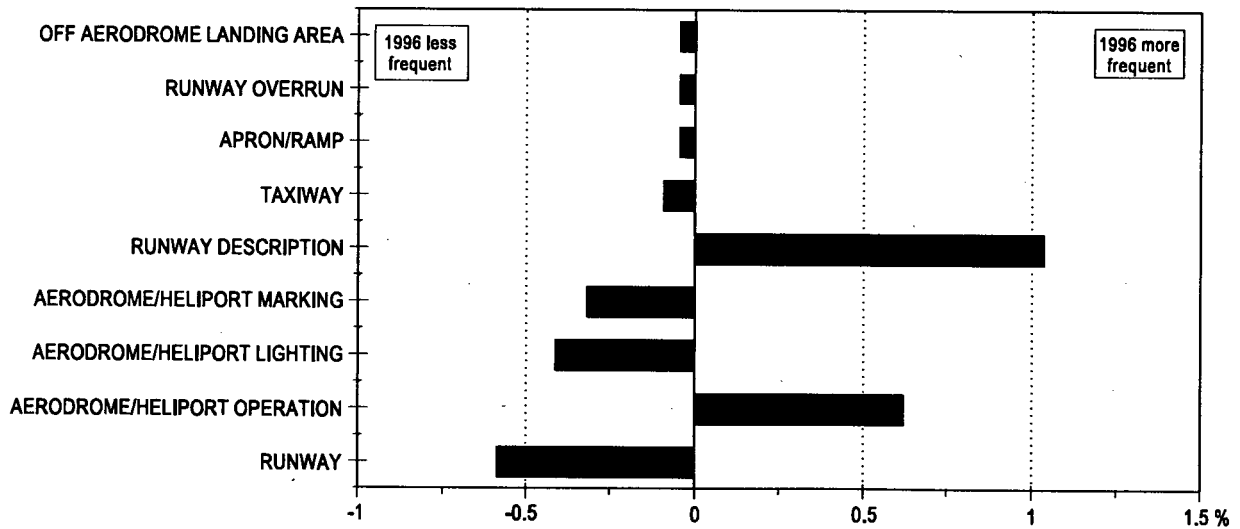
Comparison of 1986 — 1995 with 1996



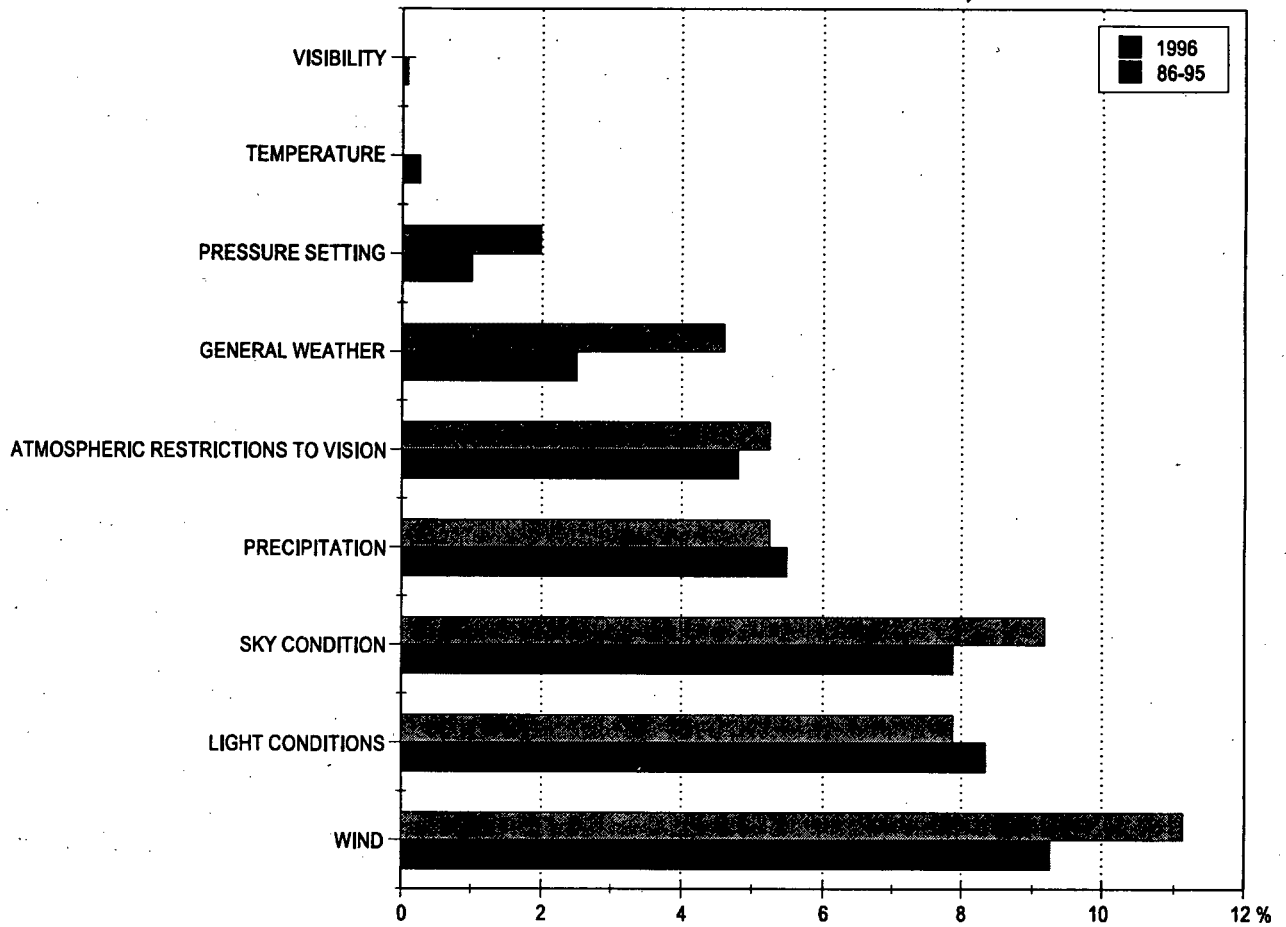
Aerodrome factors



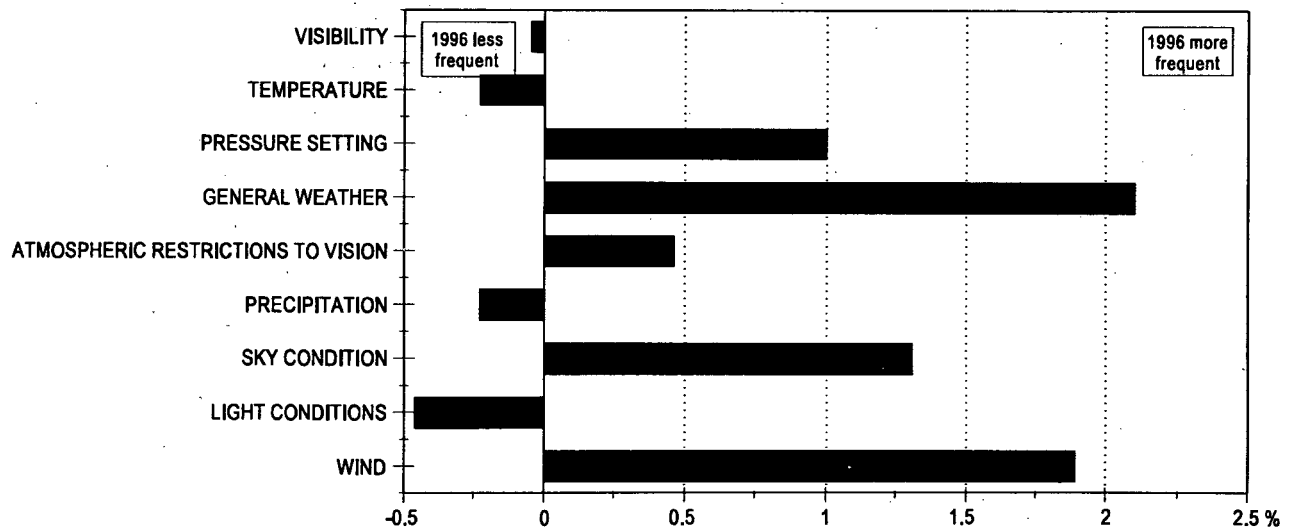
Comparison of 1986 — 1995 with 1996



Weather factors



Comparison of 1986 — 1995 with 1996

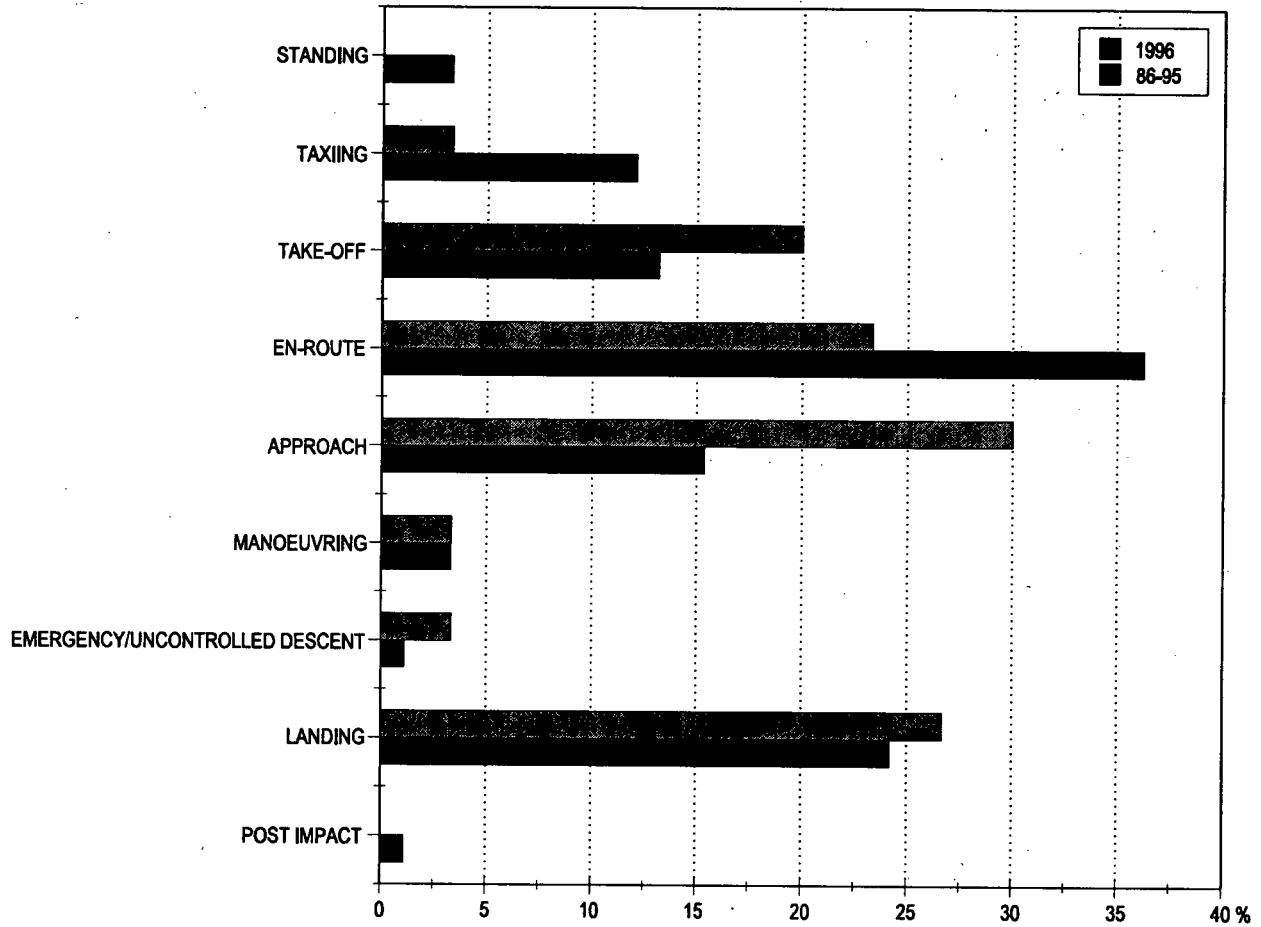


FIXED WING AIRCRAFT

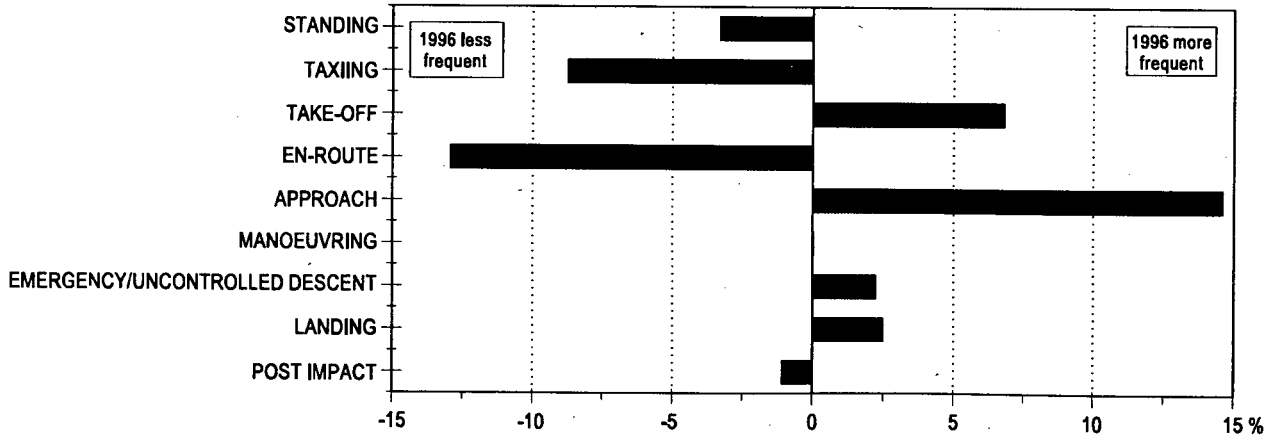
General Aviation

Incidents

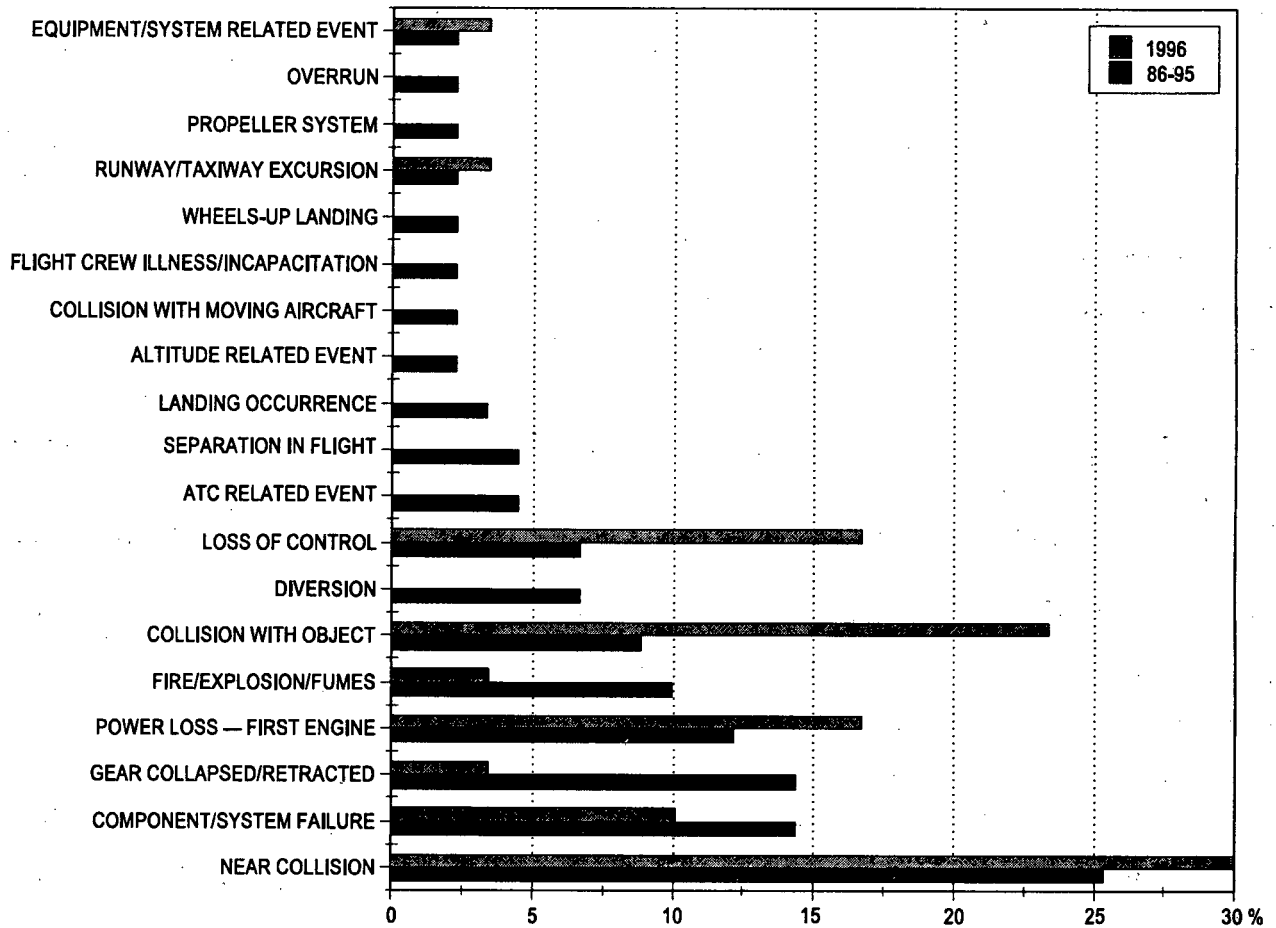
Phase of operation



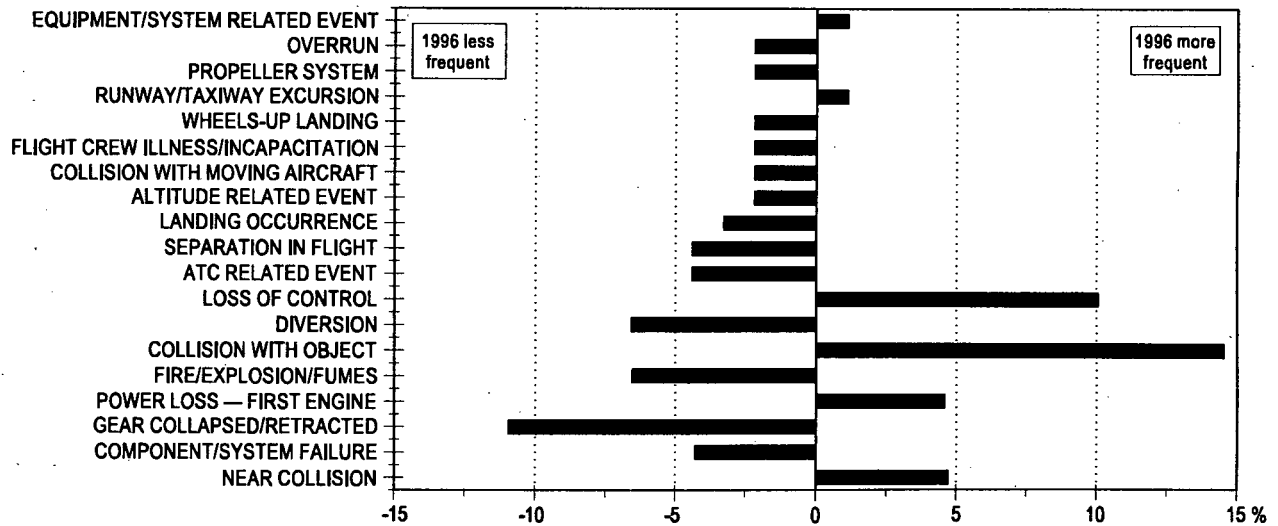
Comparison of 1986 — 1995 with 1996



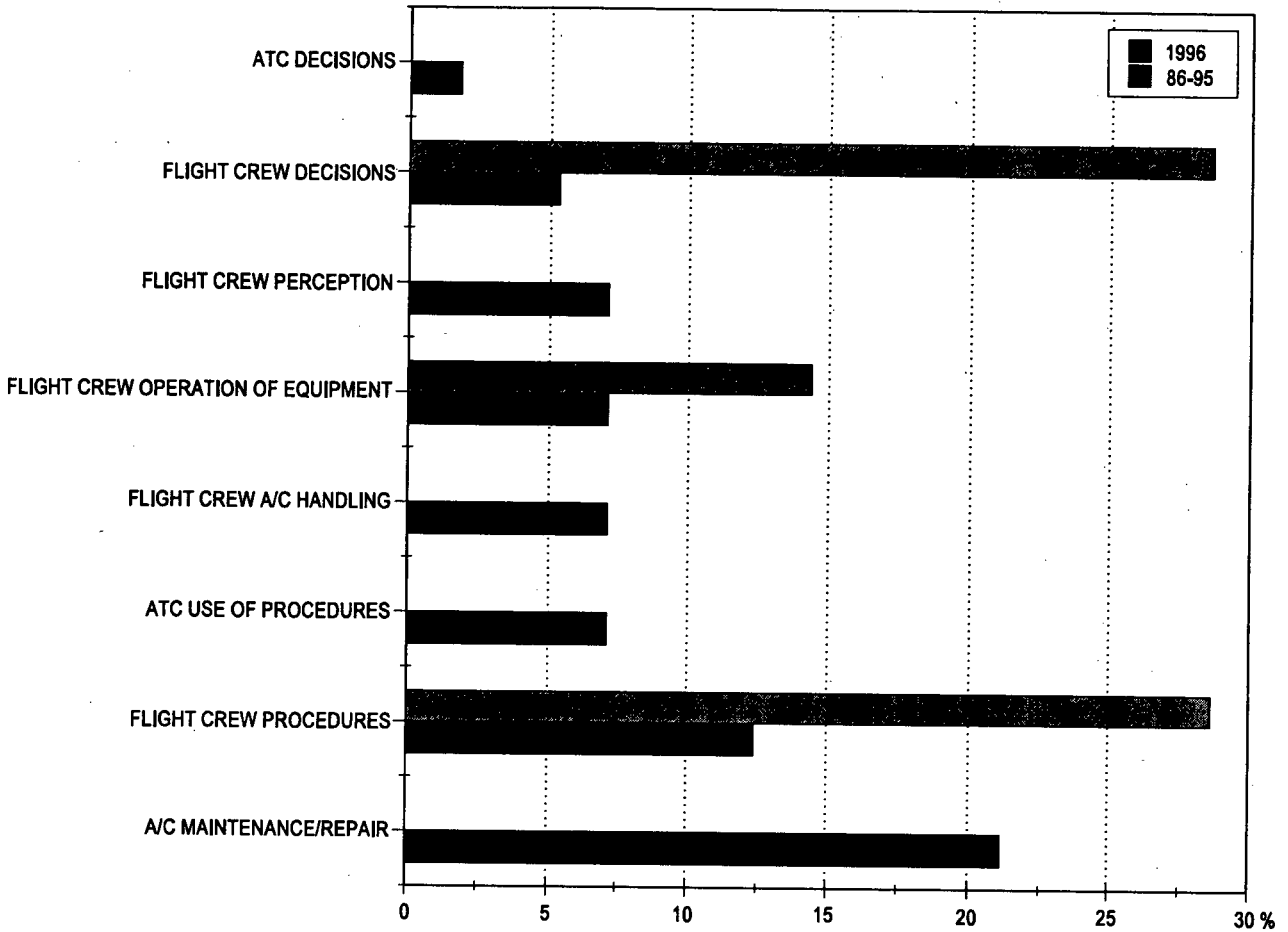
Type of event



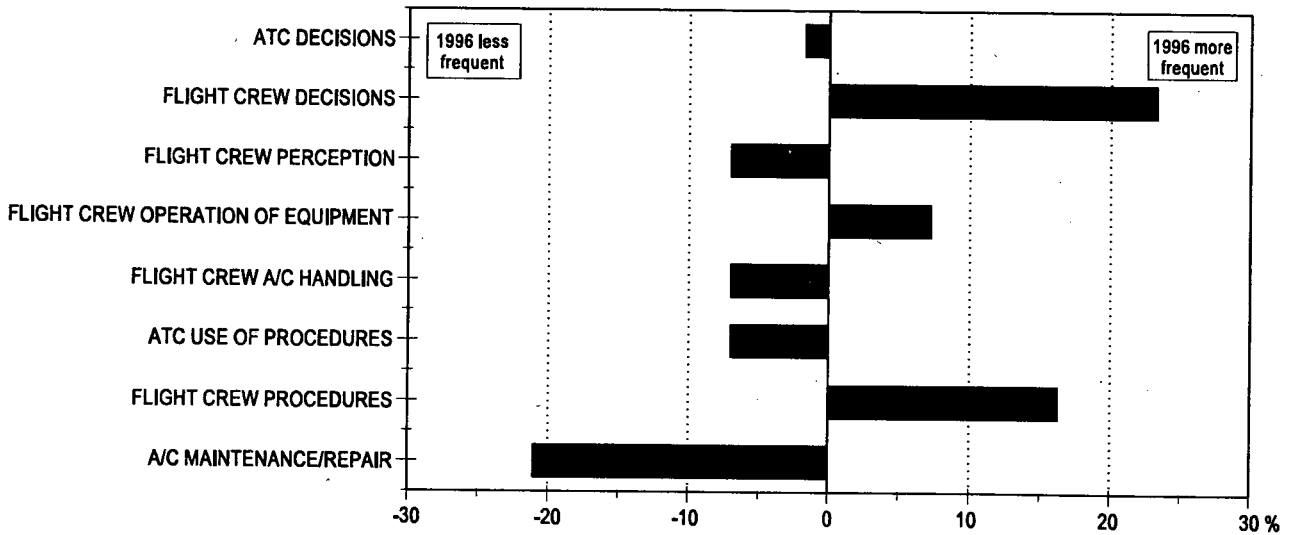
Comparison of 1986 — 1995 with 1996



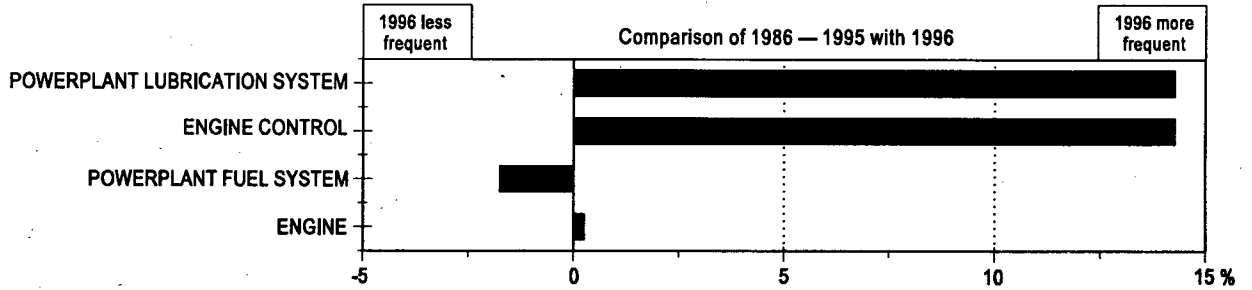
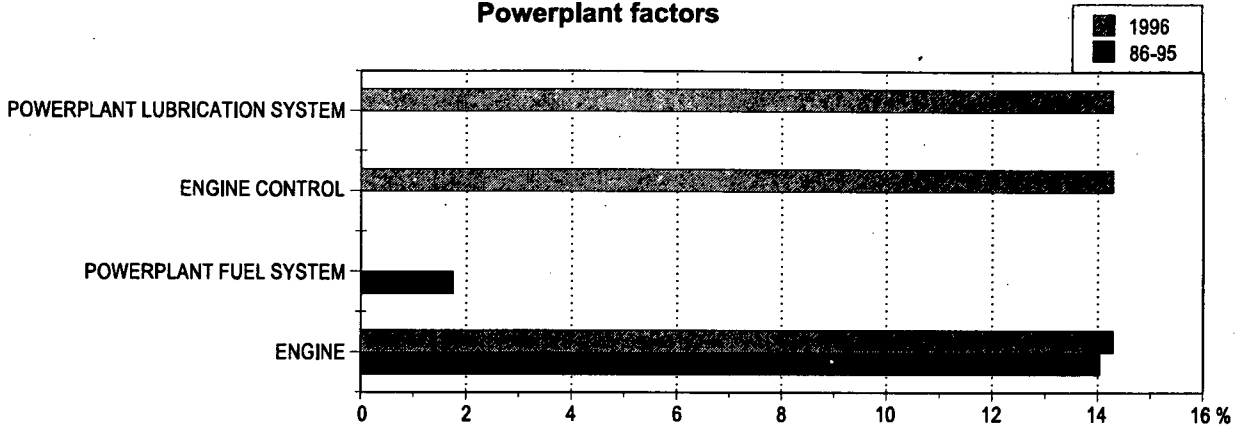
Personnel factors



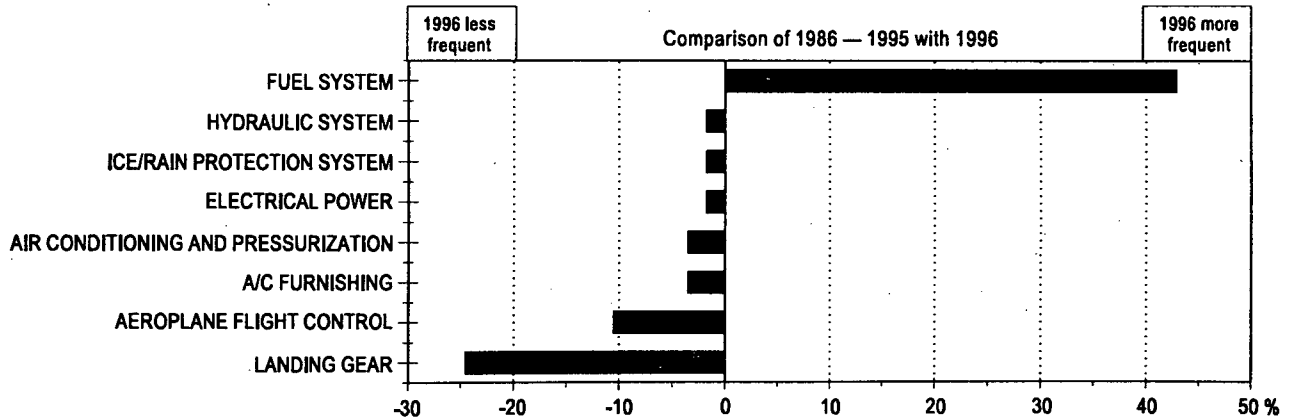
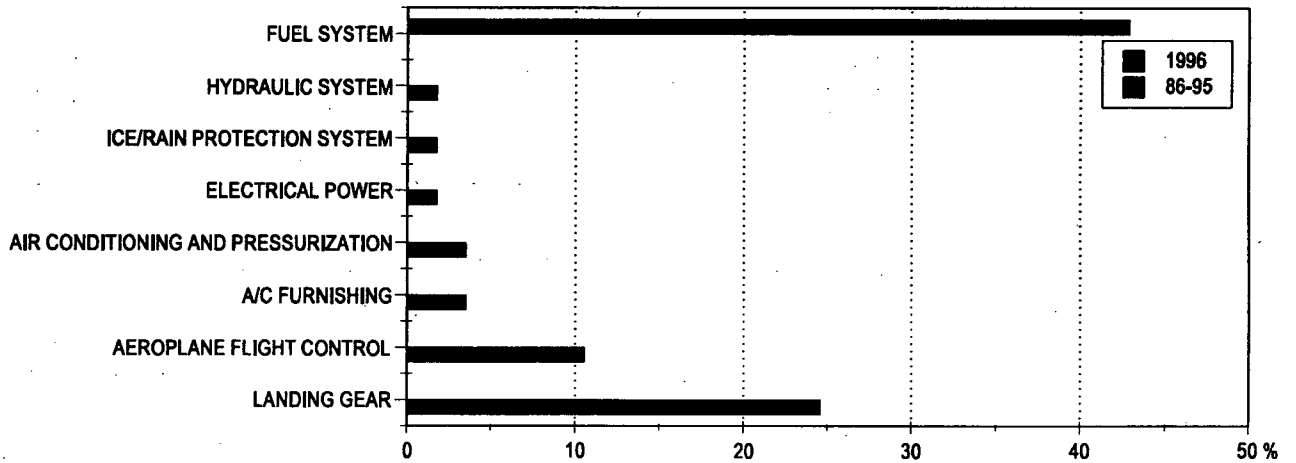
Comparison of 1986 — 1995 with 1996



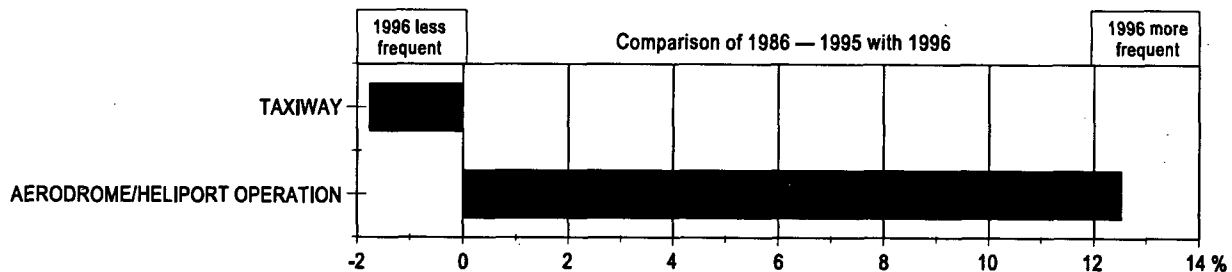
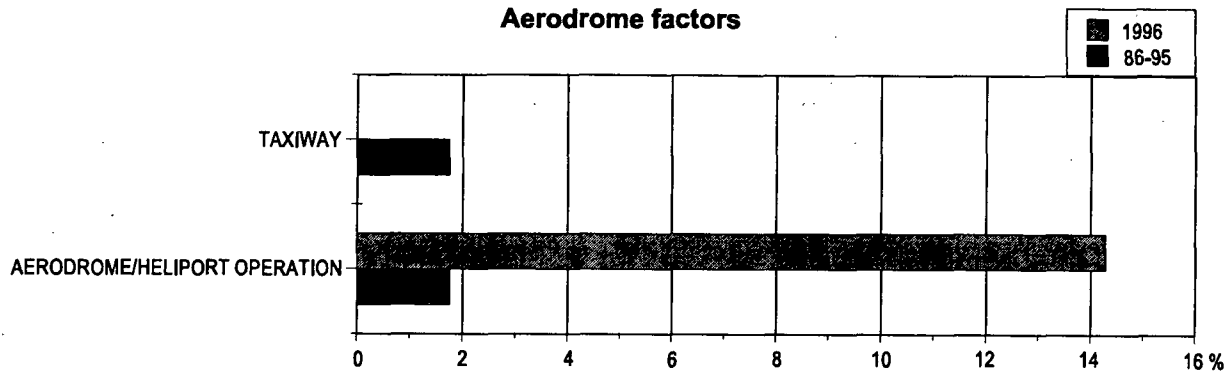
Powerplant factors



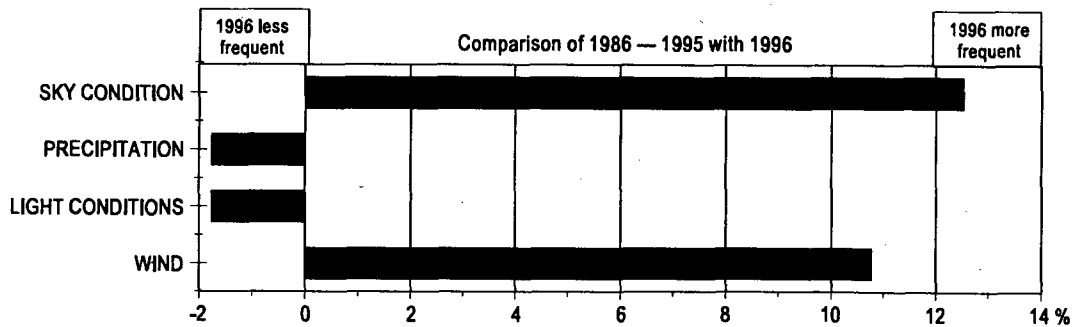
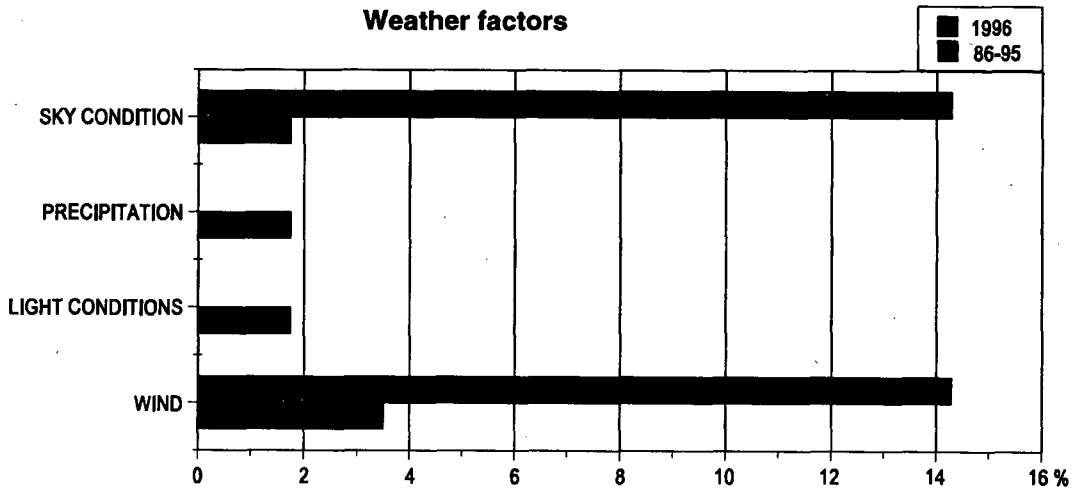
System factors



Aerodrome factors



Weather factors

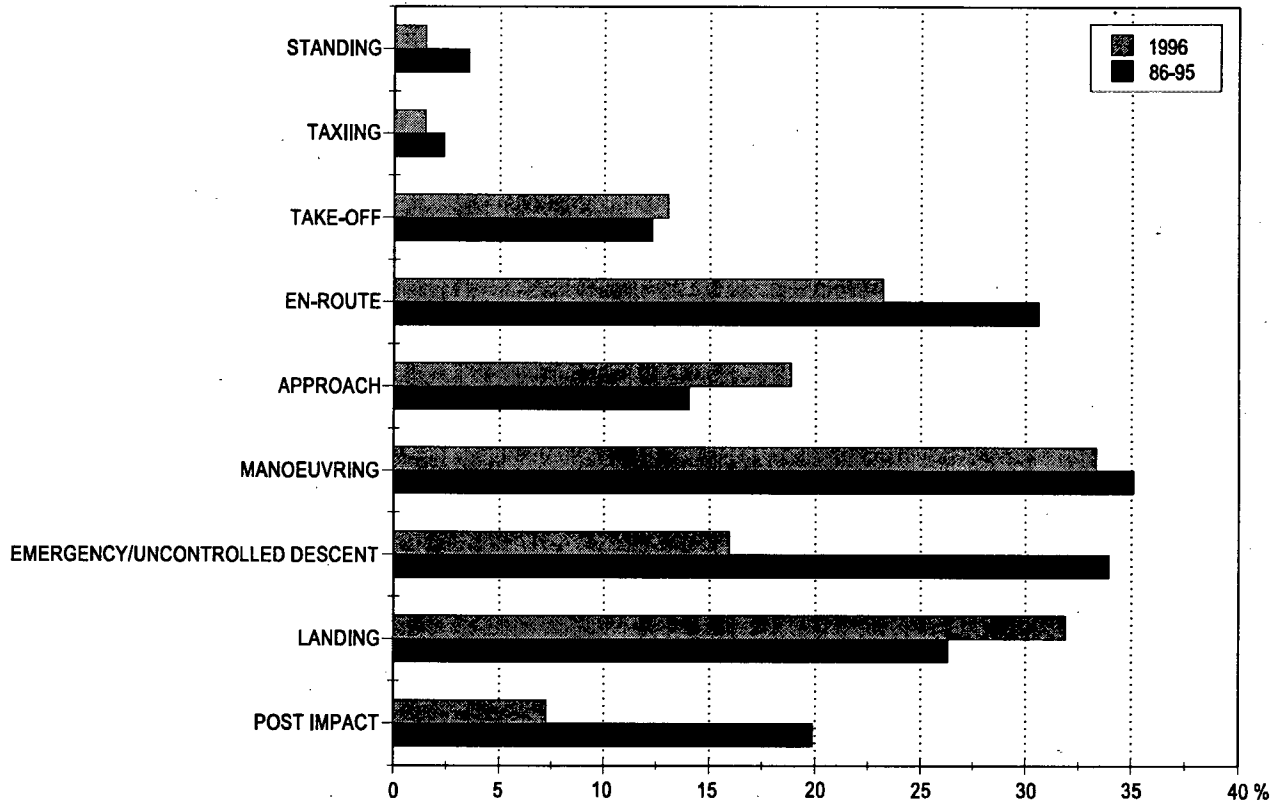


HELICOPTERS

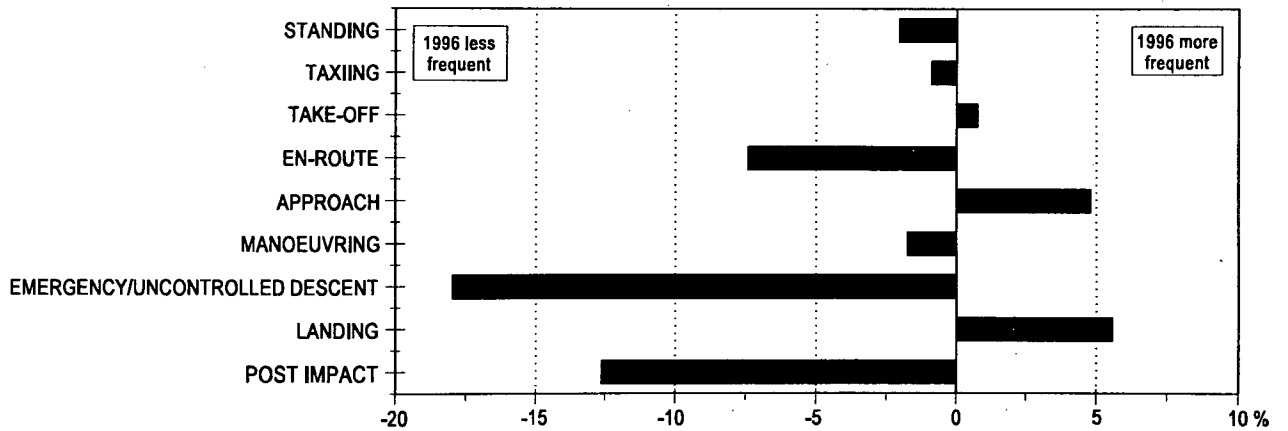
General Aviation and Airline Operations

Accidents and Incidents

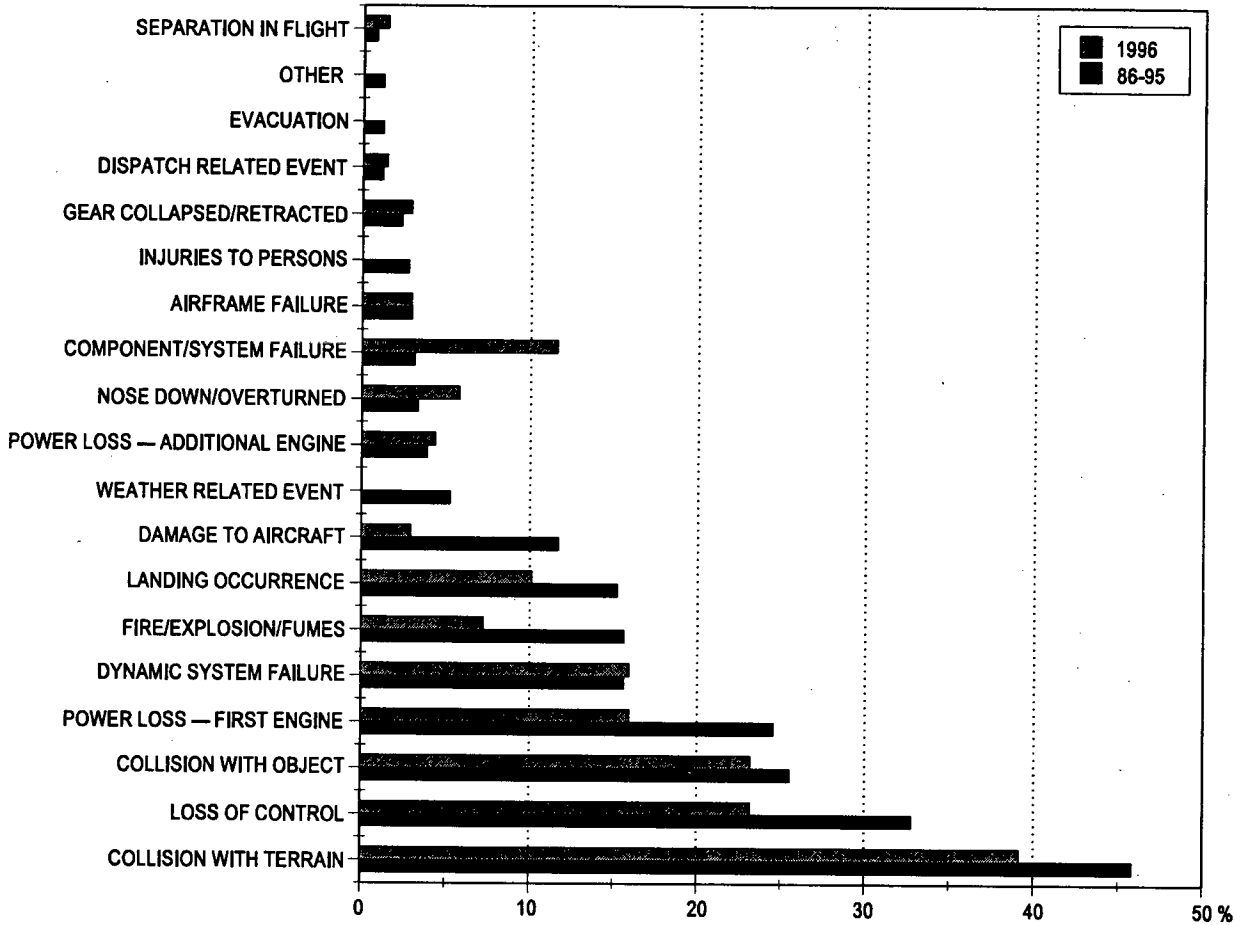
Phase of operation



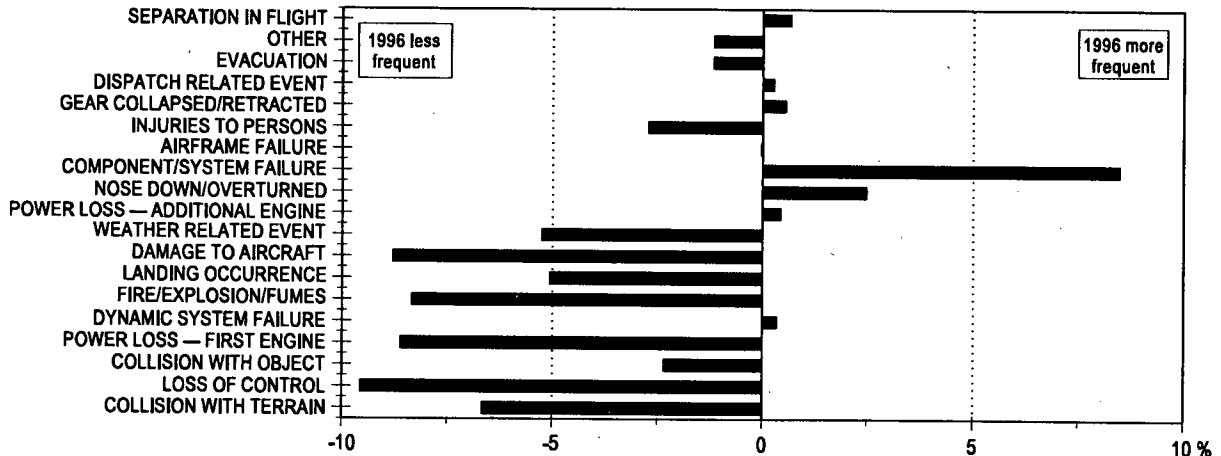
Comparison of 1986 — 1995 with 1996



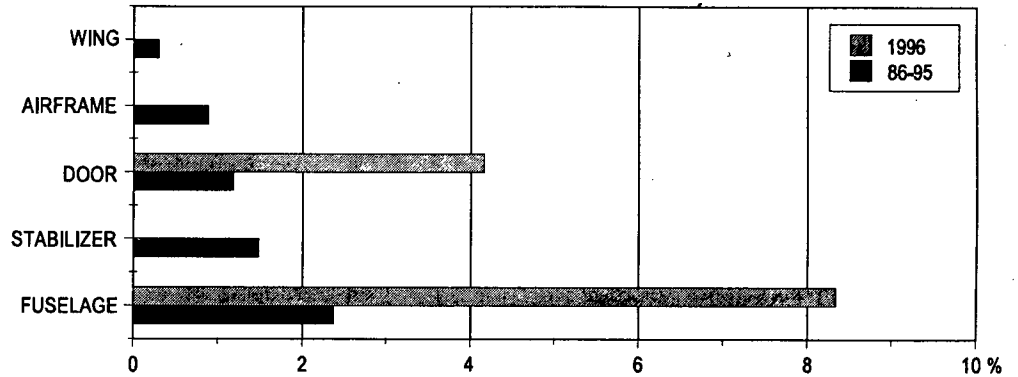
Type of event



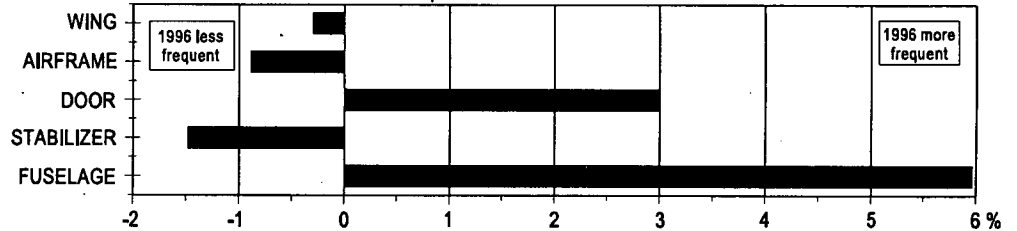
Comparison of 1986 — 1995 with 1996



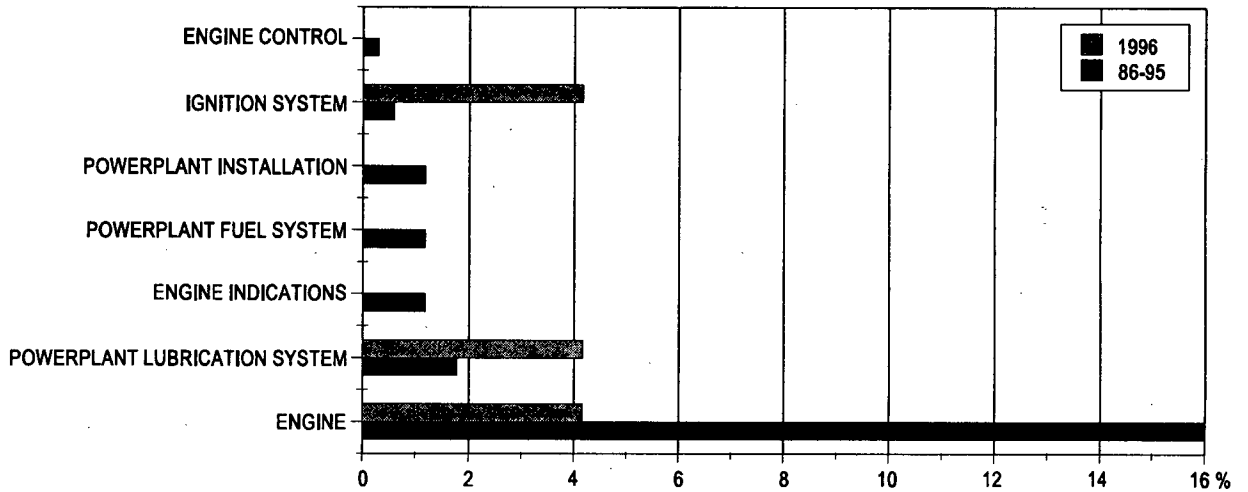
Airframe factors



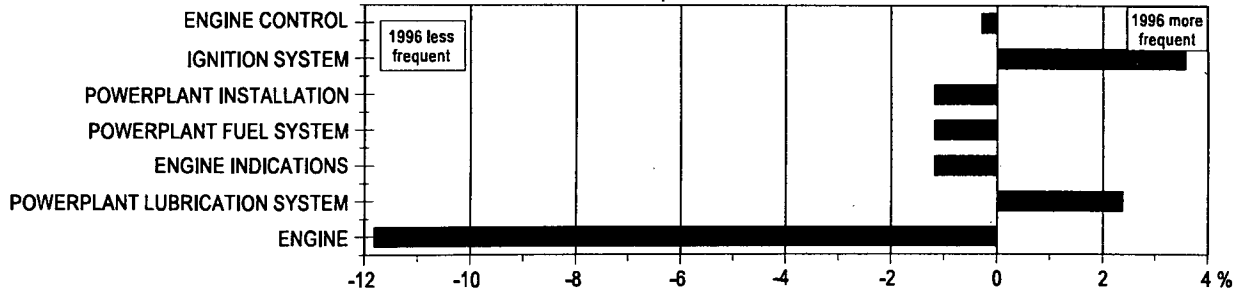
Comparison of 1986 — 1995 with 1996



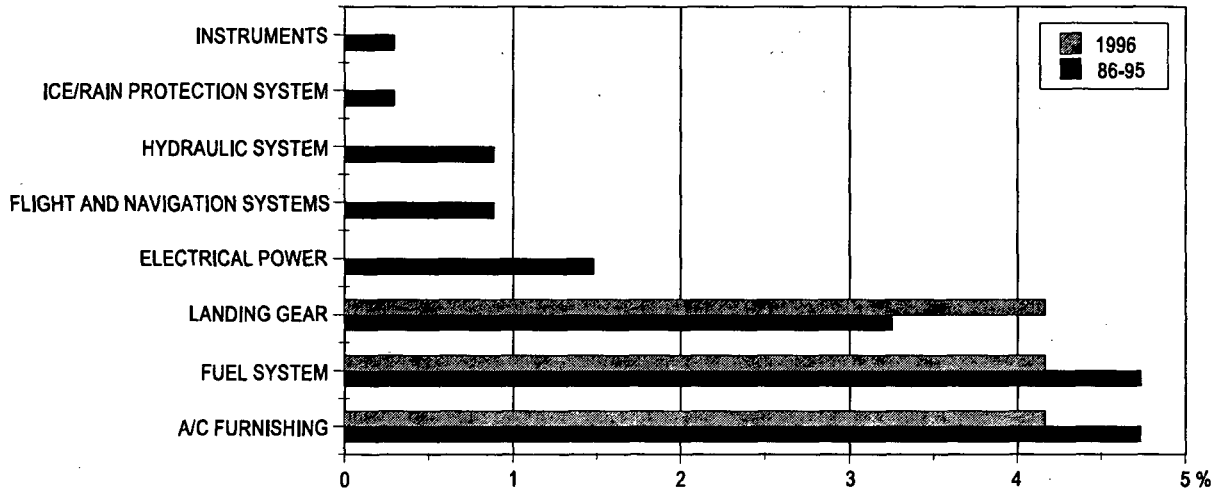
Powerplant factors



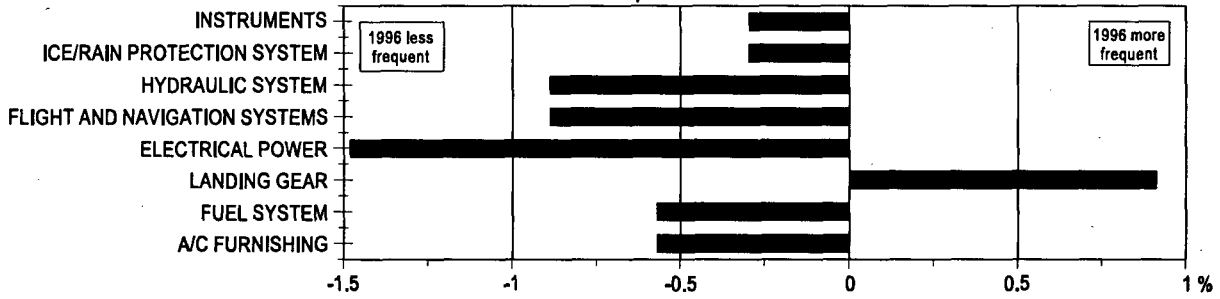
Comparison of 1986 — 1995 with 1996



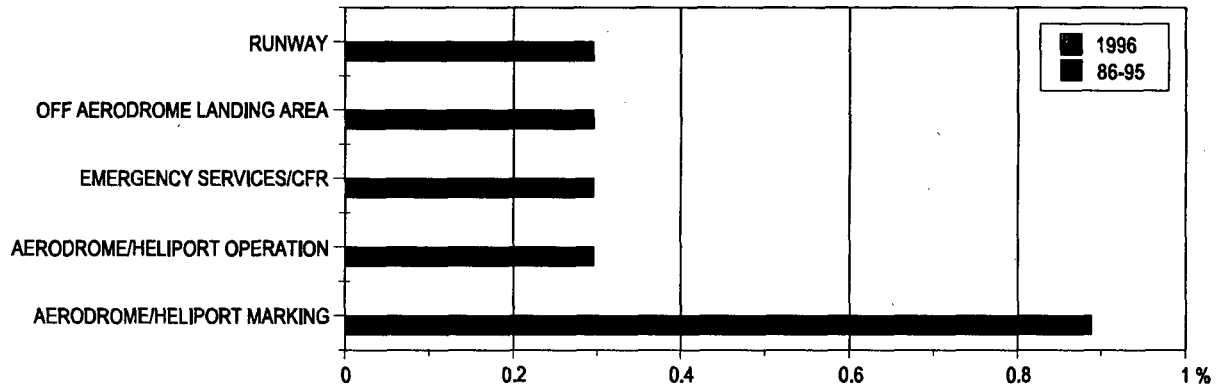
System factors



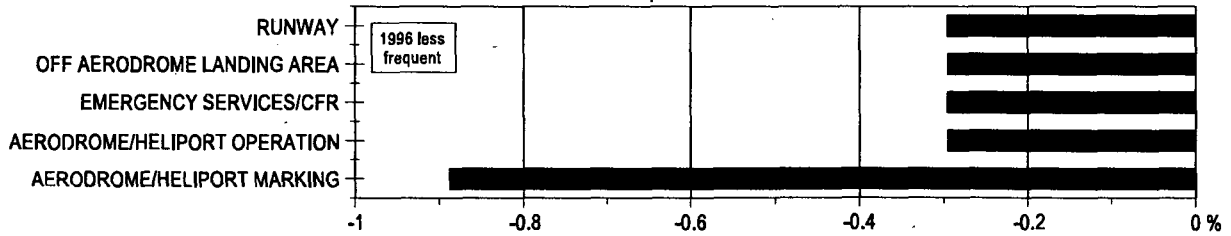
Comparison of 1986 — 1995 with 1996



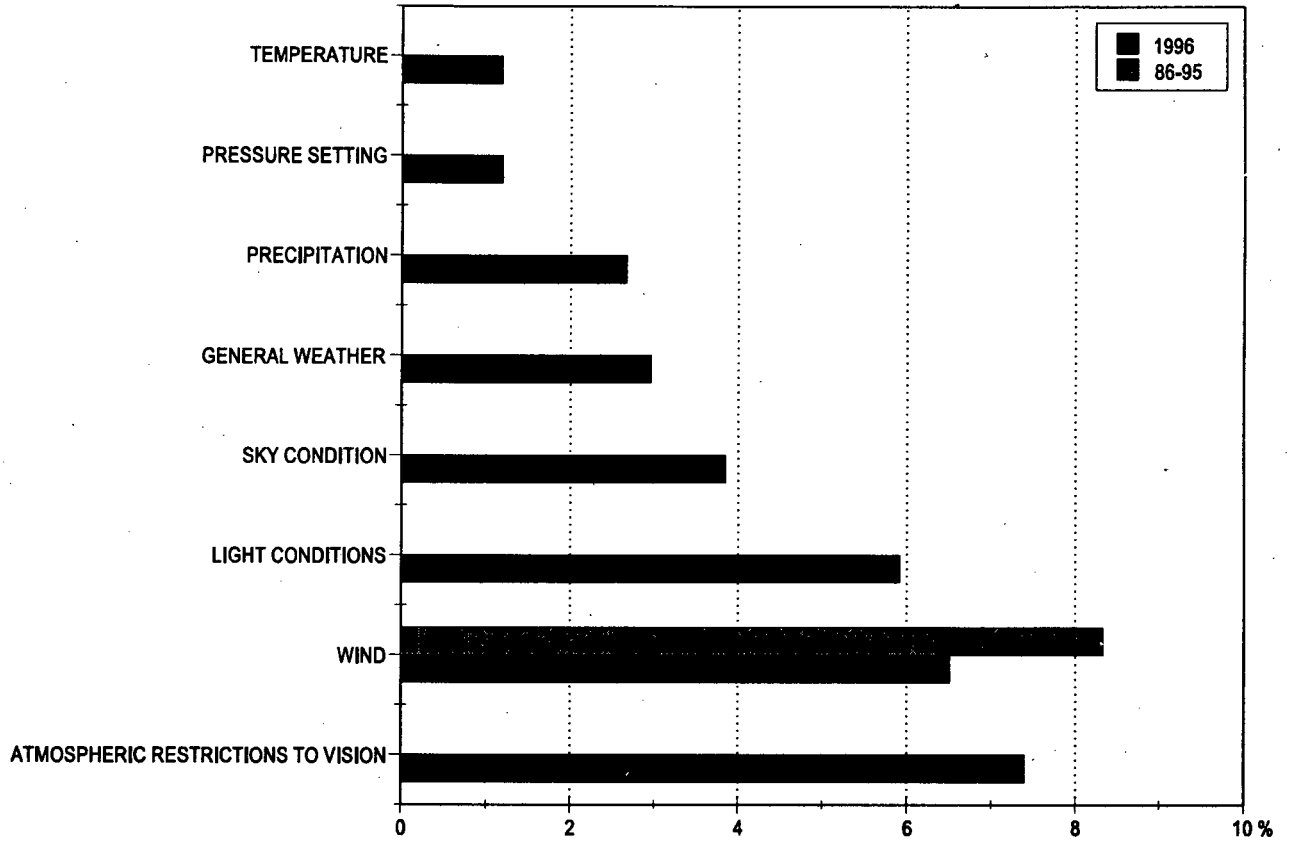
Aerodrome factors



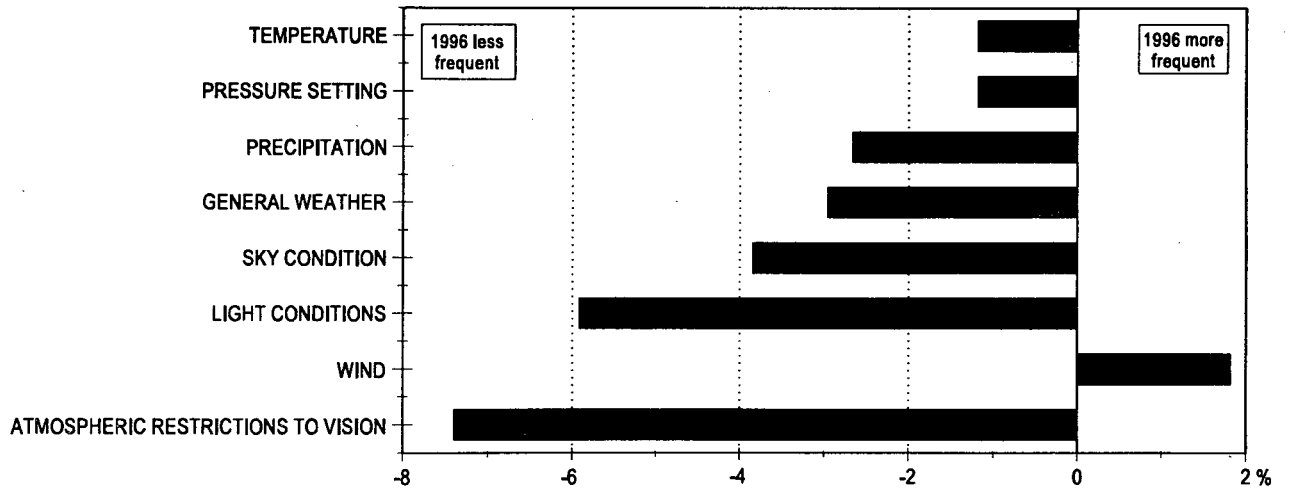
Comparison of 1986 — 1995 with 1996



Weather factors



Comparison of 1986 — 1995 with 1996

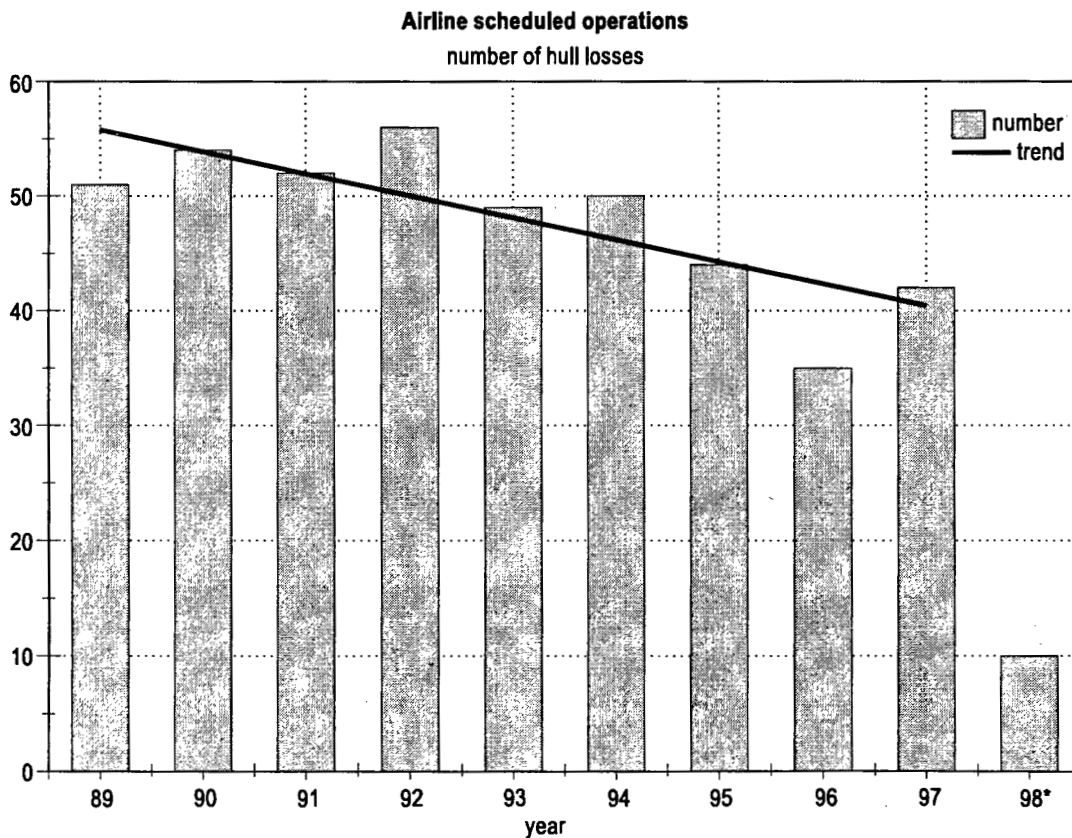


Part IV

TREND INFORMATION AND PRELIMINARY DATA FOR THE YEAR 1998

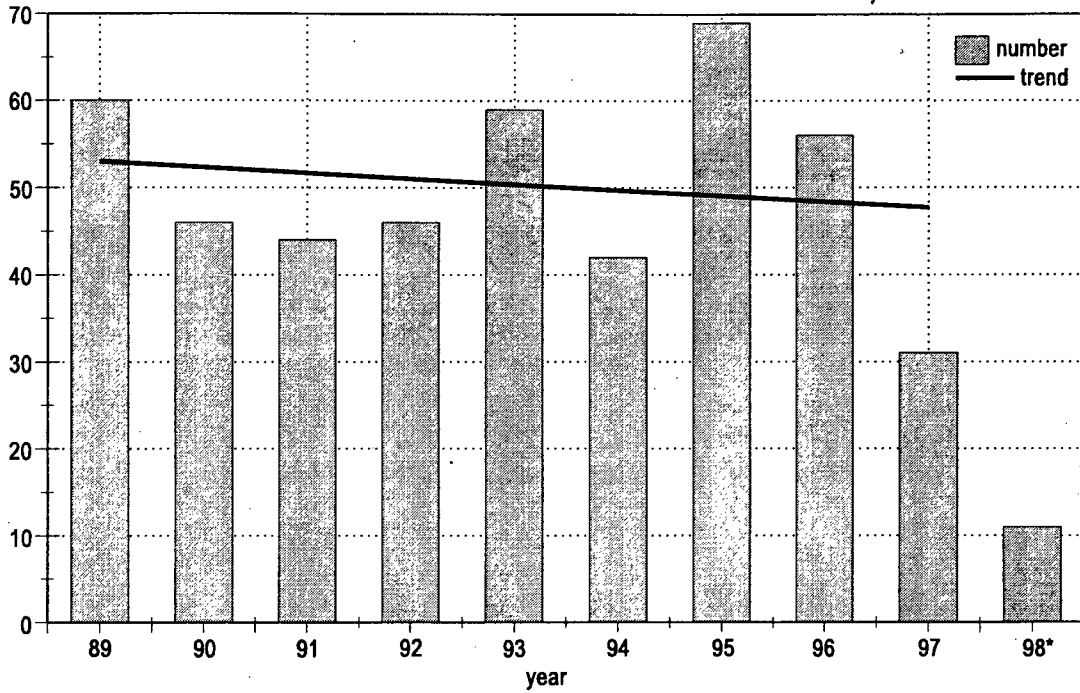
Accident trends

1. The number of hull losses (aircraft destroyed) is being provided for fixed wing operations in respect to airline scheduled, airline non-scheduled and general aviation. In addition, the number of helicopters destroyed is provided. The data includes occurrences which have been reported in the media but have not been reported by States.
2. The data for 1998 are based on initial information (including unofficial information) available to ICAO by the end of May 1998 and are likely to understate the total number of occurrences for the period under review. Trend lines were calculated based on the data for the period from 1989 to 1997.



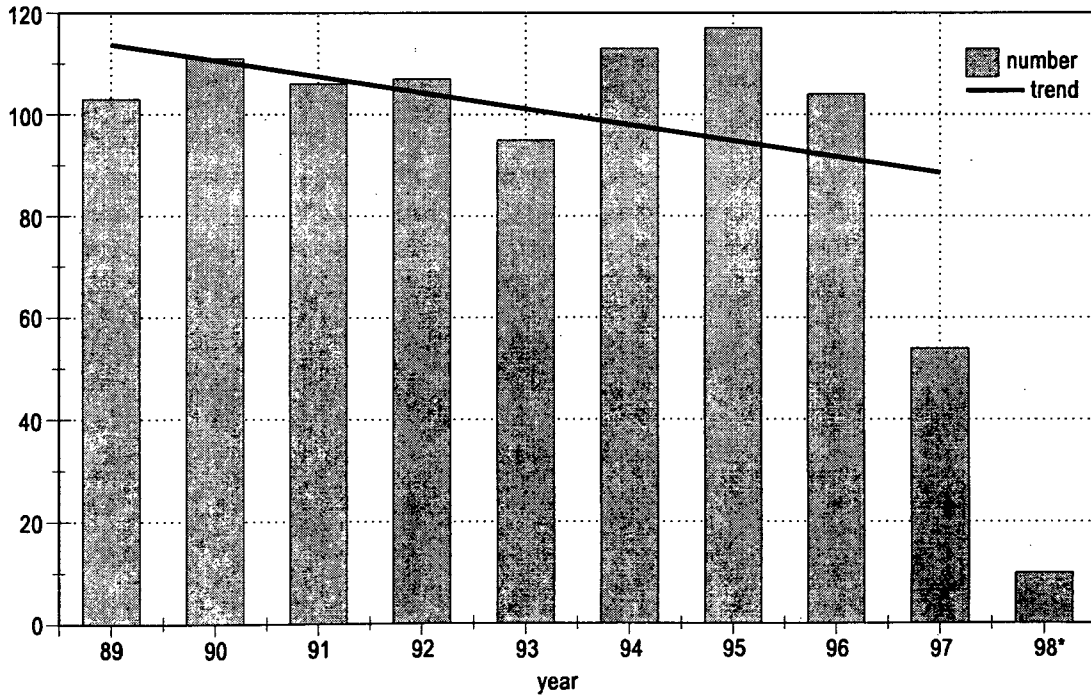
* 1998 data is based on initial information available to ICAO by the end of May 1998.

Airline non-scheduled operations
number of hull losses

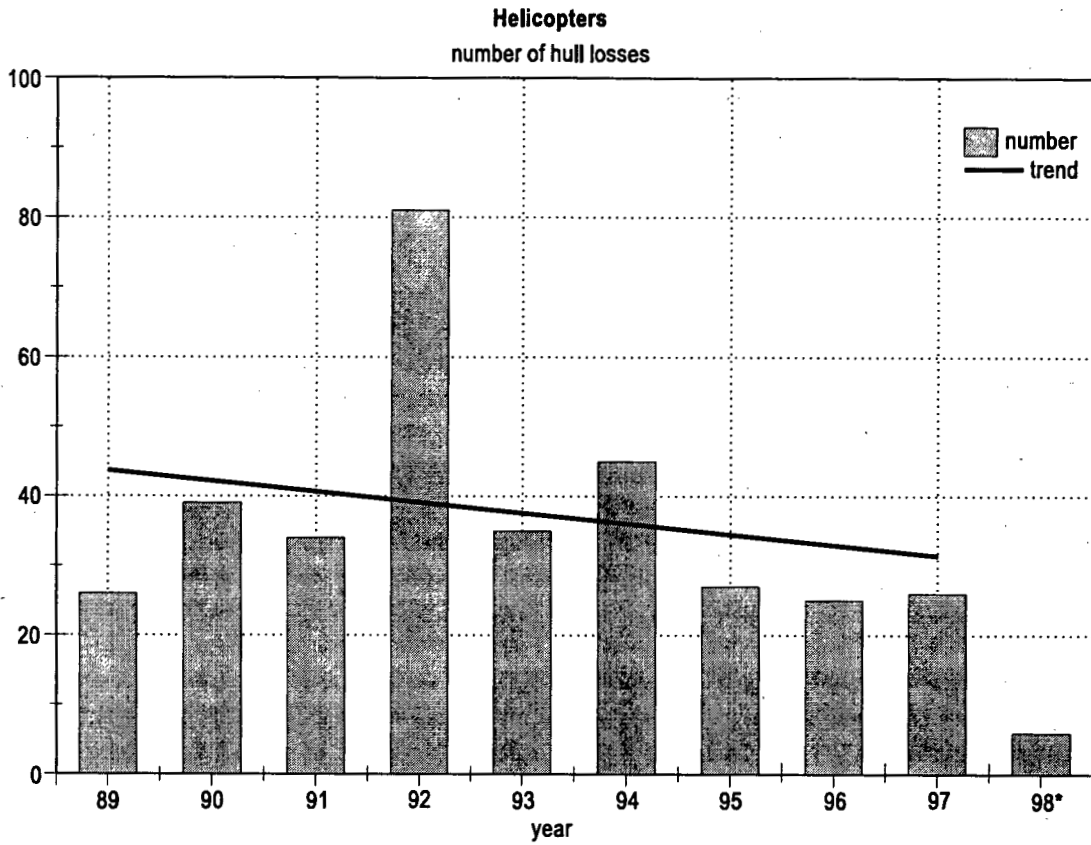


* 1998 data is based on initial information available to ICAO by the end of May 1998.

General Aviation
number of hull losses



* 1998 data is based on initial information available to ICAO by the end of May 1998.



* 1998 data is based on initial information available to ICAO by the end of May 1998.

Part V

LIST OF ACCIDENTS INVOLVING PASSENGER FATALITIES IN SCHEDULED AND NON-SCHEDULED OPERATIONS IN 1997

See Tables V-1 and V-2 on the following pages.

Table V-1. Scheduled operations

Date	State-Location	Registration	Aircraft	Passenger fatalities	Crew fatalities	Remark
97-JAN-08	SAMOA-MOAMOA	5W-FAU	DE HAVILLAND-DHC6 TWIN OTTER	2	1	
97-JAN-09	UNITED STATES-MONROE,MI	N265CA	EMBRAER-120 BRASILIA	26	3	
97-FEB-08	VIRGIN ISLANDS (U.S.)-CARIBBEAN SEA	N318AB	CESSNA-402	2	0	
97-APR-10	UNITED STATES-WAINWRIGHT, AK	N408GV	CESSNA-208 CARAVAN I	4	1	
97-APR-19	INDONESIA-BELITUNG	PK-MTX	BRITISH AEROSPACE-ATP	11	4	
97-MAY-08	CHINA-SHENZHEN	B2925	BOEING-737-300	33	2	
97-JUN-10	MONGOLIA-MANDALGOBI		HARBIN-Y-12	7	0	
97-JUL-09	BRAZIL-NEAR SAO PAULO	PT-WHK	FOKKER-100	1	0	
97-JUL-11	CUBA-AGUADORES	CU-T1262	ANTONOV-AN-24	39	5	
97-JUL-17	INDONESIA-BANDUNG	PK-YPM	FOKKER-F27 MK 500	28	5	
97-AUG-02	PERU-LIMA	N14114	BOEING-757-200	1	0	
97-AUG-06	GUAM-GUAM	HL7468	BOEING-747-300	206	22	
97-AUG-10	TAIWAN ISLAND-MATSU ISLAND	B12256	DORNIER-228 100/200	14	2	(1)
97-AUG-29	COLOMBIA-MIRIDA	FAC1115	PILATUS-PC-6 PORTER	7	2	
97-SEP-03	CAMBODIA-PHNUM PENH	VN-A120	TUPOLEV-TU-134	59	6	
97-SEP-06	MALAYSIA-NEAR MIRI	9M-MIA	DORNIER-228 100/200	8	2	
97-SEP-08	NORWAY-NORWEGIAN COAST	LN-OPG	AEROSPATIALE-AS 332 SUPER PUMA	10	2	
97-SEP-26	INDONESIA-BUAH NABAR / SIBOLANGIT	PK-GAI	AIRBUS INDUSTRIES-A300	222	12	
97-OCT-10	URUGUAY-NUOVO BERLIN	LV-WEG	MCDONNELL-DOUGLAS-DC-9-30	69	6	
97-OCT-29	AFGHANISTAN-JALALABAD	YA-KAE	YAKOLEV-YAK-40	1	1	
97-NOV-08	UNITED STATES-BARROW, AK	N750GC	CESSNA-208 CARAVAN I	7	1	
97-DEC-09	CANADA-LITTLE GRAND RAPIDS	C-GVRO	EMBRAER-110 BANDEIRANTE	3	1	
97-DEC-17	GREECE-NEAR THESSALONIKI	UR42334	YAKOLEV-YAK-42	62	8	
97-DEC-19	INDONESIA-PALEMBANG	9V-TRF	BOEING-737-300	97	7	
97-DEC-22	CHINA		AIRBUS INDUSTRIES-A300	1	0	(2)
97-DEC-28	NORTH PACIFIC OCEAN-EN-ROUTE		BOEING-747-100/200	1	0	
97-DEC-31	PANAMA-RIO SIDRA	HP986PS	BRITTEN-NORMAN-BN-2A ISLANDER	9	1	
Total				930	94	

(1) Aircraft accident statistics in ICAO are based on aircraft registered in ICAO Contracting States. This accident was not included in the statistics in Doc 9700.

(2) Aviation security related occurrences are not included in the aircraft accident statistics in ICAO, but reported separately under aviation security in Doc 9700.

Table V-2. Non-scheduled operations

Date	State-Location	Registration	Aircraft	Passenger fatalities	Crew fatalities	Remark
97-JAN-31	NIGERIA-YOLA	5N-AXS	EMBRAER-110 BANDEIRANTE	2	3	
97-FEB-01	SENEGAL-TAMBACOUNDA	6V-AEO	BRITISH AEROSPACE-748	20	3	
97-FEB-19	GUATEMALA-NEAR GUATEMALA CITY	YV160	ISRAEL-IAI-1124	4	1	
97-MAR-02	VENEZUELA-CARACAS	YV784	CESSNA-402	5	1	
97-MAR-07	COLOMBIA-CALDAS	HK3885	CESSNA-500/501 CITATION	2	2	
97-MAR-12	ANGOLA-NORTHERN ANGOLA	D2-FVG	ANTONOV-AN-12	11	4	
97-MAR-18	RUSSIAN FEDERATION-CHERKESSEK	RA46516	ANTONOV-AN-24	44	6	
97-JUN-06	CONGO-BUNIA	9Q-CWL	VICKERS-ARMSTRONG-VC-2 VISCOUNT	20	7	
97-JUN-17	RUSSIAN FEDERATION-NEAR TULA	RA84700	ANTONOV-AN-2	3	1	
97-JUL-05	UNITED STATES-SKWENTNA, AK	N5164G	DE HAVILLAND-DHC2 MK. I BEAVER	3	1	
97-JUL-18	PAPUA NEW GUINEA-NEAR GOROKA	P2-MMU	DE HAVILLAND-DHC6-300	1	1	
97-SEP-12	CONGO-NEAR UVIRA	9Q-CBO	DE HAVILLAND-DHC6-300	21	1	
97-OCT-02	AZERBAIJAN-CASPIAN SEA	4K-24017	MIL-MI-8	18	3	
97-OCT-08	UNITED STATES-MONTROSE, CO	N12022	CESSNA-208 CARAVAN I	8	1	
97-OCT-09	GAMBIA-NEAR BANJUL INT'L A/P	EC-ERQ	BEECH-200 KING AIR	6	2	
97-OCT-10	MONACO-EN-ROUTE	F-GHCK	AEROSPATIALE-SA 360 DAUPHIN	2	0	
97-OCT-20	COSTA RICA-SAN CARLOS	YN-BVP	CESSNA-208 CARAVAN I	5	1	
97-DEC-11	RUSSIAN FEDERATION-NARYAN MAR		MIL-MI-8	8	0	
97-DEC-13	BOLIVIA-LA VERIENTE	CP-1635	SWEARINGEN-SA226 TC METRO II	9	1	
97-DEC-15	UNITED ARAB EMIRATES-NEAR SHARJAH	EY85281	TUPOLEV-TU-154	77	8	
97-DEC-16	CANADA-MACKENZIE, 25 NM N	C-GKWV	CESSNA-402	2	1	
97-DEC-20	NETHERLANDS-NORTH SEA	PH-KHB	SIKORSKY-S-76	1	0	
			Total	272	158	

— END —

ICAO TECHNICAL PUBLICATIONS

The following summary gives the status, and also describes in general terms the contents of the various series of technical publications issued by the International Civil Aviation Organization. It does not include specialized publications that do not fall specifically within one of the series, such as the Aeronautical Chart Catalogue or the Meteorological Tables for International Air Navigation.

International Standards and Recommended Practices are adopted by the Council in accordance with Articles 54, 37 and 90 of the Convention on International Civil Aviation and are designated, for convenience, as Annexes to the Convention. The uniform application by Contracting States of the specifications contained in the International Standards is recognized as necessary for the safety or regularity of international air navigation while the uniform application of the specifications in the Recommended Practices is regarded as desirable in the interest of safety, regularity or efficiency of international air navigation. Knowledge of any differences between the national regulations or practices of a State and those established by an International Standard is essential to the safety or regularity of international air navigation. In the event of non-compliance with an International Standard, a State has, in fact, an obligation, under Article 38 of the Convention, to notify the Council of any differences. Knowledge of differences from Recommended Practices may also be important for the safety of air navigation and, although the Convention does not impose any obligation with regard thereto, the Council has invited Contracting States to notify such differences in addition to those relating to International Standards.

Procedures for Air Navigation Services (PANS) are approved by the Council for world-wide application. They contain, for the most part, operating procedures regarded as not yet having attained a sufficient degree of

maturity for adoption as International Standards and Recommended Practices, as well as material of a more permanent character which is considered too detailed for incorporation in an Annex, or is susceptible to frequent amendment, for which the processes of the Convention would be too cumbersome.

Regional Supplementary Procedures (SUPPS) have a status similar to that of PANS in that they are approved by the Council, but only for application in the respective regions. They are prepared in consolidated form, since certain of the procedures apply to overlapping regions or are common to two or more regions.

The following publications are prepared by authority of the Secretary General in accordance with the principles and policies approved by the Council.

Technical Manuals provide guidance and information in amplification of the International Standards, Recommended Practices and PANS, the implementation of which they are designed to facilitate.

Air Navigation Plans detail requirements for facilities and services for international air navigation in the respective ICAO Air Navigation Regions. They are prepared on the authority of the Secretary General on the basis of recommendations of regional air navigation meetings and of the Council action thereon. The plans are amended periodically to reflect changes in requirements and in the status of implementation of the recommended facilities and services.

ICAO Circulars make available specialized information of interest to Contracting States. This includes studies on technical subjects.

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