
DEPARTMENT OF TRANSPORT

Casualties to Vessels
and Accidents to Men

Vessels registered in the United Kingdom

Return for 1988

LONDON
HER MAJESTY'S STATIONERY OFFICE

© Crown copyright 1989
First published 1989

ISBN 0 11 550928 3

Her Majesty's Stationery Office

Standing order service

Placing a standing order with HMSO BOOKS enables a customer to receive future editions of this title automatically as published.

This saves the time, trouble and expense of placing individual orders and avoids the problem of knowing when to do so.

For details please write to HMSO BOOKS (PC 13A/1), Publications Centre, PO Box 276, London SW8 5DT quoting reference X03.03.18.

The standing order service also enables customers to receive automatically as published all material of their choice which additionally saves extensive catalogue research. The scope and selectivity of the service has been extended by new techniques, and there are more than 3,500 classifications to choose from. A special leaflet describing the service in detail may be obtained on request.

Casualties to Vessels and Accidents to Men

<i>Table</i>	<i>Page</i>
Part I—Casualties to Vessels	
IA—Merchant Vessels	
	1
1	3
2	3
3	4
4	4
5	5
6	6
7	7
8	8
9	8
Chart	9
IB—Fishing Vessels	
10	10
11	11
12	12
13	12
Part II—Accidents to Men	
IIA—Merchant Vessels	
(i) Deaths of Crew Members	
14	13
15	14
16	15
17	15
18	16

(ii) Notifiable accidents—to crew members

19	Analysis of accidents by type: 1987 and 1988	17
20	Analysis of accidents by cause: 1987 and 1988	18
21	Analysis of accidents by place: 1987 and 1988	20
22	Analysis of accidents by activity: 1987 and 1988	21
23	Analysis of accidents by category and age of crew: 1987 and 1988	22
24	Analysis of accidents by main injury: 1987 and 1988	23
25	Analysis of accidents—whether on or off duty: 1987 and 1988	23

(iii) Notifiable accidents—to passengers

26	Accidents to and deaths of passengers—other than from disease on board ships—by nature of accident and type of injury: 1987 and 1988	24
----	--	----

IIB—Fishing Vessels

27	Deaths of fishermen on Fishing Vessels: 1988 (other than from disease or personal violence)	25
28	Analysis of accidents on Fishing Vessels by type: 1988	25
29	Analysis of accidents on Fishing Vessels by cause: 1988	26
30	Analysis of accidents on Fishing Vessels by activity: 1988	26
31	Analysis of accidents on Fishing Vessels by category and age or person: 1988	27

Symbols and Dictionary

—	:	nil or negligible
FOU	:	Foundering
STR	:	Stranding
GRO	:	Grounding
COL	:	Collision
CON	:	Contact
CAP	:	Capsized
FLO	:	Flooding
LIS	:	Lists
MaD	:	Machinery Damage
FIR	:	Fire
EXP	:	Explosion
WED	:	Heavy Weather Damage

The Department of Transport would be glad to have from users of this Annual Return any suggestions aimed at improving the coverage and format of this publication. Please write to:

Marine Directorate
Deputy Surveyor-General 3a
Room 3/28
Sunley House
90 High Holborn
London WC1V 6LP

Casualties to Vessels and Accidents to Men 1988

Introduction

Part I consists of two sections relating to merchant vessels and fishing vessels. Tables in both sections show details of individual vessels lost and also the numbers of serious and minor casualties which occurred in the year.

Part II consists of three sections relating to accidents to crews and passengers on merchant vessels and to crews of fishing vessels.

Part I—Casualties to Vessels

IA—Merchant Vessels (Tables 1–9)

This section consists of statistics of total losses and other casualties which occurred during the year 1988 to merchant vessels registered at ports in the United Kingdom under Part I of the Merchant Shipping Act 1894.

Vessels totally lost

The gross tonnage lost in 1988 for vessels of 100 gross tons and over was 3,404. Table 3 refers.

Casualties other than total losses

Table 4 shows the number and gross tonnage of power driven vessels which suffered serious casualties in the period 1979–1988. For the purpose of this return the expression ‘serious casualty’ means any casualty where:

- (a) the vessel is in danger of becoming a total loss, for instance where salvage assistance is required; or
- (b) serious damage is sustained so as to affect the seaworthiness of the vessel; or
- (c) the vessel sank, but is known to have been subsequently raised and repaired; or
- (d) human life is lost; or
- (e) serious financial loss occurs in relation to the size and value of the vessel.

The tonnage involved in serious casualties in 1988, for vessels of 100 gross tons and over was 40,248 compared with 61,863 in 1987.

The number of vessels of 100 gross tons and over involved in minor casualties in 1989 was 178 compared with 135 in 1987. Table 7 refers.

IB—Fishing Vessels (Tables 10–13)

This part of the return contains details of fishing vessels lost in 1988 and statistics of total losses, serious casualties and minor casualties in the 10 year period 1979–1988. Each table contains information for each of the three size groups separately identified, ie vessels of 24 metres in length and over, vessels between 12 and 24 metres and vessels under 12 metres.

Part II—Accidents to Men

Part II of this return includes information on accidents to persons on UK merchant and fishing vessels, including accidents during access. This information is obtained from the accident report forms sent to the Department.

In interpreting the figures in these tables the following points should be noted:

- (a) tables 19 to 22, 26 (top half) and 28 to 30 inclusive show the numbers of *accidents* reported;
- (b) tables 23 to 25, 26 (bottom half) and 31 show the numbers of *persons* reported to have been injured;
- (c) in these tables the term 'injured persons' *includes* persons killed.

IIA—Merchant Vessels (Tables 14–26)

The report forms for persons on merchant vessels are in compliance with the Merchant Shipping (Safety Officials and Reporting of Accidents and Dangerous Occurrences) Regulations 1982 [SI 1982 No 876] (the SORADO Regulations). An annual summary of the information on accidents to crew on merchant vessels is also published as a Merchant Shipping Notice.

IIB—Fishermen (Tables 27–31)

For men on UK fishing vessels of 10 metres or more in length reports are required under the Fishing Vessels (Reporting of Accidents) Regulations 1985 [SI 1985 No 855]. However readers studying these figures should be aware that there may have been some under-reporting, especially in the case of minor fishing accidents.

Part I—Casualties to Vessels

IA—Merchant Vessels

Table 1 Vessels on the United Kingdom Register* at 31 December 1988 number by tonnage and age groups

<i>Tonnage groups (Gross tons)</i>	<i>At 31 December 1988</i>	<i>Age groups</i>	<i>At 31 December 1988</i>
100 and under 500	1,133	under 5 years	314
500 and under 2,000	581	5–10 years	265
2,000 and under 4,000	70	10–15 years	377
4,000 and under 6,000	47	15–20 years	304
6,000 and under 8,000	26	20–25 years	267
8,000 and under 10,000	9	25 years and over	483
10,000 and over	144	Age unknown	—
Total	2,010	Total	2,010

* Excluding Crown Dependencies (Isle of Man, Channel Islands)

Table 2 Individual Merchant Vessels lost in 1988

<i>Date</i>	<i>Name of Vessel</i>	<i>Type of Vessel</i>	<i>AGE</i>	<i>GRT</i>	<i>Description of Loss</i>
Jan 25	Grit	General Cargo	12	499	Collision
Feb 8	ITL Anna B	Tug	10	518	Foundering ^a
Mar 18	Lissa	Support vessel	40	95	Stranding
Oct 21	B C Mercurius	Cement carrier	29	499	Fire ^a
Dec 5	Bowsprite	Suction dredger	21	1,503	Foundering
Dec 30	Deepdale H	Esturial Tanker	21	385	Capsize ^a

^a Constructive total loss

Table 3 Total losses of merchant vessels: 1979 to 1988

	<i>Number of Ships lost</i>		<i>Gross tonnage lost</i>		<i>Gross tonnage on UK Register ('000's)</i>		<i>Percentage of UK registered tonnage lost</i>	
	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>
1979	10	9	6,431	6,417	27,377	27,087	0.02	0.02
1980	8	7	94,850	94,812	27,945	27,650	0.34	0.34
1981	11	7	5,986	5,854	24,448	24,189	0.02	0.02
1982	4	2	1,883	1,811	21,571	21,343	0.01	0.01
1983	5	4	6,855	6,835	18,232	18,039	0.04	0.04
1984	5	3	1,576	1,429	16,832	16,653	0.01	0.01
1985	6	5	3,370	3,306	15,971	15,421	0.02	0.02
1986	4	3	2,836	2,766	10,511	10,398	0.03	0.03
1987	5	4	8,997	8,952	6,302	6,238	0.14	0.14
1988	6	5	3,499	3,404	5,875	5,816	0.06	0.06

Table 4 Serious casualties to merchant vessels: 1979 to 1988

	<i>Number of Ships</i>		<i>Gross tonnage involved in casualties</i>		<i>Gross tonnage on UK Register ('000's)</i>		<i>Percentage of UK registered tonnage</i>	
	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>	<i>All Vessels</i>	<i>100 GRT and over</i>
1979	21	21	315,701	315,701	27,377	27,087	1.15	1.17
1980	15	11	54,150	53,922	27,945	27,650	0.20	0.20
1981	13	12	156,688	156,676	24,448	24,189	0.64	0.65
1982	6	14	282,659	282,602	21,571	21,343	1.31	1.32
1983	8	6	41,068	41,946	18,232	18,039	0.23	0.23
1984	9	5	102,069	101,783	16,832	16,653	0.61	0.61
1985	9	8	146,411	146,363	15,971	15,421	0.92	0.95
1986	4	3	4,986	4,534	10,511	10,398	0.05	0.04
1987	15	13	61,986	61,863	6,302	6,238	0.98	0.99
1988	8	7	40,272	40,248	5,875	5,816	0.68	0.69

Table 5 Yearly analysis of casualties to merchant vessels of 100 gross tons or more and number per 1,000 at risk: 1979 to 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	198
Total losses											
Foundering	3	1	3	2	1	—	1	1	—	2	
Strandings and groundings	3	4	3	—	2	—	2	1	1	—	
Collisions and contacts	1	1	—	—	1	1	2	—	—	1	
Fires and explosions	1	—	1	—	—	—	—	1	1	1	
Other losses ^a	1	1	—	—	—	2	—	—	2	1	
<i>Total</i>	9	7	7	2	4	3	5	3	4	5	
Number per 1,000 at risk	3.2	2.5	2.7	0.8	1.7	1.3	2.2	1.4	2.0	2.5	
Number of vessels of 100 GRT or more on UK register	2,797	2,771	2,616	2,459	2,361	2,302	2,302	2,173	2,038	2,010	
Serious Casualties											
Foundering	1	—	1	1	—	—	—	—	—	—	
Strandings and groundings	8	—	2	2	2	3	4	1	1	3	
Collisions and contacts	6	6	3	6	2	1	2	2	9	—	
Fires and explosions	3	4	4	4	2	1	1	—	1	4	
Other casualties ^a	3	1	2	1	—	—	1	—	2	—	
<i>Total</i>	21	11	12	14	6	5	8	3	13	7	
Number per 1,000 at risk	7.5	4.0	4.6	5.7	2.5	2.2	3.5	1.4	6.4	3.5	
Number of vessels of 100 GRT or more on UK register	2,797	2,771	2,616	2,459	2,361	2,302	2,302	2,173	2,038	2,010	
Minor Casualties											
Strandings and groundings	52	45	40	42	21	32	22	19	14	19	
Collisions and contacts	132	146	122	148	104	89	65	53	37	55	
Fires and explosions	37	34	34	20	21	17	39	43	24	32	
Other casualties ^a	200	167	215	187	128	123	98	67	60	72	
<i>Total</i>	421	392	411	397	274	261	224	182	135	178	
Number per 1,000 at risk	151	141	157	161	116	112	97	84	66	88	
Number of vessels of 100 GRT or more on UK register	2,797	2,771	2,616	2,459	2,361	2,302	2,302	2,173	2,038	2,010	

^a Other casualties: includes heavy weather damage, flooding and lists, machinery damage and other casualties not included in casualties mentioned.

Table 6 Total losses and serious casualties to merchant vessels of 100 gross tons or more 1988: main causes

<i>Causes</i>	<i>FOU</i>	<i>STR/ GRO</i>	<i>COL</i>	<i>CAP</i>	<i>FIR</i>	<i>MaD</i>	<i>Other</i>	<i>Total</i>
Navigation								
Fault of other vessel	—	—	—	—	—	—	—	—
Non observance of coll regs	—	—	—	—	—	—	—	—
Deficient Navigation	—	3	1	—	—	—	—	4
Other known causes	—	—	—	—	—	—	—	—
Fires and explosions								
Mechanical breakdown or failure	—	—	—	—	2	—	—	2
Carelessness	—	—	—	—	—	—	—	—
Electric sparking	—	—	—	—	—	—	—	—
Hot work	—	—	—	—	—	—	—	—
Spillage of liquids	—	—	—	—	1	—	—	1
Spontaneous combustion	—	—	—	—	—	—	—	—
Other known causes	—	—	—	—	2	—	—	2
Machinery damage								
Shortage of water/duct/oil	—	—	—	—	—	—	—	—
Negligence	—	—	—	—	—	—	—	—
Excessive wear	—	—	—	—	—	—	—	—
Faulty design	—	—	—	—	—	—	—	—
Component failure	—	—	—	—	—	—	—	—
Other known causes	—	—	—	—	—	—	—	—
Flooding and lists								
Improper stowage of cargo	—	—	—	—	—	—	—	—
Closing appliances improperly closed	1	—	—	—	—	—	—	1
Hull defects	1	—	—	—	—	—	—	1
Other known causes	—	—	—	1	—	—	—	1
Weather conditions								
Heavy weather	—	—	—	—	—	—	—	—
Fog	—	—	—	—	—	—	—	—
Abnormal tides or currents	—	—	—	—	—	—	—	—
Cause unknown	—	—	—	—	—	—	—	—
Number by nature of casualty	2	3	1	1	5	—	—	12
Number by nature of casualty 1987	—	2	9	2	2	—	2	17
Number by type of vessel	<i>FOU</i>	<i>STR/ GRO</i>	<i>COL</i>	<i>CAP</i>	<i>FIR</i>	<i>MaD</i>	<i>Other</i>	<i>Total</i>
Passenger	—	—	—	—	3	—	—	3
Dry cargo	—	1	1	—	1	—	—	3
Tanker	—	—	—	1	—	—	—	1
Other	2	2	—	—	1	—	—	5
All vessels 1988	2	3	1	1	5	—	—	12

Table 7 Minor casualties to merchant vessels of 100 gross tons or more 1988: main causes

<i>Causes</i>	<i>STR/ GRO</i>	<i>COL/ CON</i>	<i>WED</i>	<i>FLO/ LIS</i>	<i>FIR/ EXP</i>	<i>MaD</i>	<i>Other</i>	<i>Total</i>
Navigation								
Fault of other vessel	—	14	—	—	—	1	—	15
Non observance of coll regs	—	—	—	—	—	—	—	—
Deficient Navigation	9	12	—	—	—	—	—	21
Other known causes	1	5	—	1	—	—	1	8
Fires and explosions								
Mechanical breakdown or failure	—	—	—	—	7	—	—	7
Carelessness	—	—	—	—	3	—	—	3
Electric sparking	—	—	—	—	1	—	—	1
Hot work	—	—	—	—	1	—	—	1
Spillage of liquids	—	—	—	—	7	—	—	7
Spontaneous combustion	—	—	—	—	—	—	—	—
Other known causes	—	—	—	—	8	—	—	8
Machinery damage								
Shortage of water/duct/oil	—	—	—	—	—	—	—	—
Negligence	—	—	—	—	—	1	—	1
Excessive wear	—	—	—	—	—	1	—	1
Faulty design/assembly	—	—	—	1	—	5	—	6
Metal fatigue	—	—	—	—	—	—	—	—
Component failure	—	2	—	2	—	14	—	18
Contamination	—	—	—	—	1	3	—	4
Overheating	—	—	—	—	—	4	—	4
Other known causes	—	1	—	—	—	6	1	8
Flooding and lists								
Improper stowage of cargo	—	—	—	—	—	—	—	—
Closing appliances improperly closed	—	—	—	—	—	—	—	—
Hull defects	—	—	—	—	—	—	—	—
Other known causes	—	—	—	—	—	—	—	—
Weather conditions								
Heavy weather	—	4	6	1	—	—	2	13
Fog	—	1	—	—	—	—	—	1
Abnormal tides or currents	—	3	—	—	—	—	—	3
Cause unknown	9	13	—	2	4	15	5	48
Number by nature of casualty	19	55	6	7	32	50	9	178
Number by nature of casualty 1987	14	37	7	4	24	44	5	135
Passenger	1	5	1	1	11	7	—	26
Dry cargo	12	28	3	5	11	20	5	84
Tanker	—	6	1	—	3	5	2	17
Other	6	16	1	1	7	18	2	51
All vessels 1988	19	55	6	7	32	50	9	178

Table 8 All casualties to merchant vessels of 100 gross tons or more 1988 numbered by tonnage and age groups

Total losses	<i>Tonnage groups (gross tons)</i>							<i>Age Groups (years of age)</i>						<i>Total</i>
	100 and under 500	500 and under 2,000	2,000 and under 4,000	4,000 and under 6,000	6,000 and under 8,000	8,000 and under 10,000	10,000 and over	UP to 5	6 to 10	11 to 15	16 to 20	21 to 25	26 and over	
<i>All ships</i>														
Foundering	—	2	—	—	—	—	—	—	1	—	—	1	—	2
Strandings	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Collisions	1	—	—	—	—	—	—	—	—	1	—	—	—	1
Missing	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Explosions and fires	1	—	—	—	—	—	—	—	—	—	—	—	1	1
Other casualties	1	—	—	—	—	—	—	—	—	—	—	1	—	1
<i>Total</i>	3	2	—	—	—	—	—	—	1	1	—	2	1	5
Serious casualties														
Foundering	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strandings	—	1	—	2	—	—	—	—	1	—	1	1	—	3
Collisions	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Explosions and fires	—	1	1	—	1	—	1	—	3	1	—	—	—	4
Other casualties	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Total</i>	—	2	1	2	1	—	1	—	4	1	1	1	—	7
Minor casualties														
Stranding/groundings	7	6	2	—	1	1	2	2	1	9	3	1	3	19
Collisions/contacts	10	23	2	2	2	3	13	8	9	19	8	7	4	55
Heavy weather damage	1	—	—	—	1	—	4	2	1	2	1	—	—	6
Floodings/lists	5	1	—	1	—	—	—	—	1	2	3	1	—	7
Explosions and fires	5	7	3	3	4	1	9	4	10	6	6	1	5	32
Machinery damage	13	22	4	1	2	—	8	4	9	9	16	5	7	50
Other casualties	1	2	1	—	—	1	4	3	2	3	—	1	—	9
<i>Total</i>	42	61	12	7	10	6	40	23	33	50	37	16	19	178
<i>Grand Total 1988</i>	45	65	13	9	11	6	41	23	38	52	38	19	20	190
<i>Grand Total 1987</i>	38	39	10	22	9	7	27	25	40	31	33	12	11	152

Table 9 Formal Investigations into casualties 1988

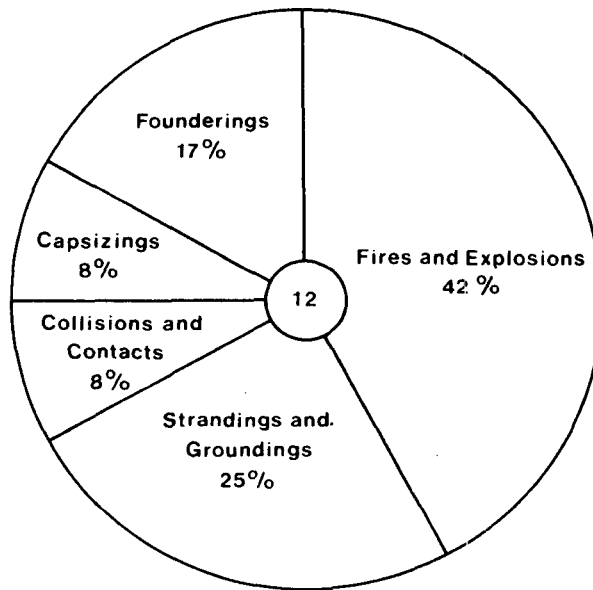
No formal investigations were ordered by the Department into the cause of casualties to merchant vessels occurring in 1988. The formal investigation into the loss of *MV Derbyshire* which opened in October 1987 was concluded in March 1988.

<i>Name of Vessel</i>	<i>GRT</i>	<i>Date and Nature of Casualty</i>	<i>Lives Lost</i>	<i>Report No.</i>
Derbyshire	91,654	Sept 1980 Foundered	44	— ^a

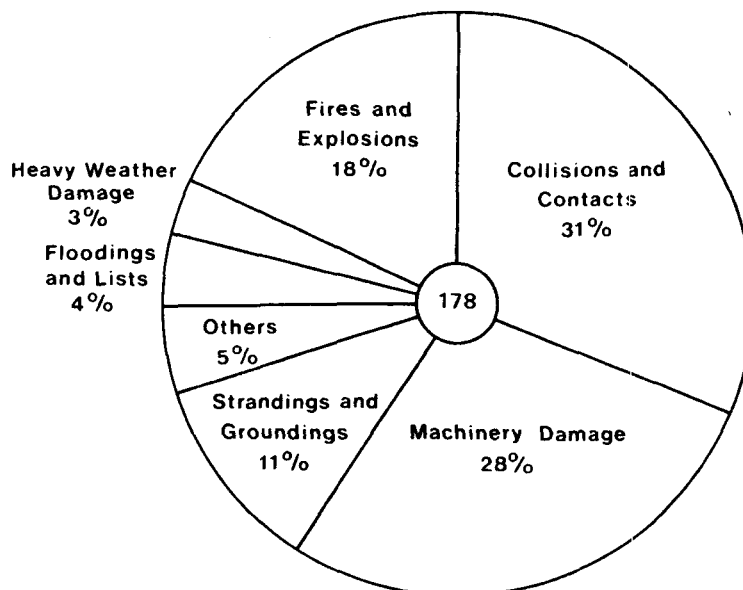
^a Report of Court not published at time of going to print

CHART: TOTAL LOSSES, SERIOUS CASUALTIES AND MINOR CASUALTIES TO MERCHANT VESSELS OF 100 GROSS TONS OR MORE 1988: BY NATURE OF CASUALTY

TOTAL LOSSES AND SERIOUS CASUALTIES



MINOR CASUALTIES



1B—Fishing Vessels

Table 10 Details of individual fishing vessels lost in 1988

<i>Date</i>	<i>Name of Vessel</i>	<i>Deaths</i>	<i>Age</i>	<i>GRT</i>	<i>Description of Loss</i>
Vessels 24 metres or more					
—					
Vessels between 12–24 metres					
January 12	MFV <i>Utopia</i>	—	19	49	Fire
February 6	MFV <i>Gillian Claire</i>	3	41	8	Capsize
March 1	MFV <i>Ocean Gain</i>	—	32	74	Foundering
July 18	MFV <i>Silver Crest</i>	—	32	28	Grounding
July 25	MFV <i>Budding Rose</i>	—	13	84	Foundering
August 24	MFV <i>Choice</i>	—	28	25	Foundering
September 14	MFV <i>Golden Dawn</i>	—	42	26	Foundering
September 26	MFV <i>Guldborg</i>	—	14	50	Fire
October 4	MFV <i>Our Tracy Jane</i>	—	41	23	Grounding
December 21	MFV <i>Fortitude</i>	—	49	49	Stranding
Vessels under 12 metres					
January 10	MFV <i>Laura Jane</i>	2	29	4	Foundering
January 16	MFV <i>Southern Enterprise</i>	3	5	9	Foundering
May 3	MFV <i>Alert II</i>	2	35	4	Foundering
May 21	MFV <i>Frey I</i>	—	9	19	Grounding
May 25	MFV <i>Couldn't Help It</i>	—	15	3	Miscellaneous
July 18	MFV <i>Emma Jane</i>	—	11	6	Foundering
July 22	MFV <i>Internos</i>	—	24	18	Collision
September 5	MFV <i>Inspire</i>	3	10	6	Foundering
October 8	MFV <i>Kingfisher</i>	—	3	9	Machinery damage
October 27	MFV <i>Jeremy Gordon II</i>	2	8	3	Foundering
October 27	MFV <i>Tarka</i>	1	4	5	Capsize
December 3	MFV <i>Mayford</i>	2	N/K	5	Foundering

Table 11 Yearly analysis of casualties to fishing vessels: 1979 to 1988 by degree and nature of casualty

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total Losses										
Nature of Casualty										
Collisions	9	6	3	5	6	3	5	2	1	1
Strandings	1	8	13	12	7	8	2	7	2	4
Foundering/floodings	24	18	20	22	18	22	23	8	7	11
Fires and explosions	2	1	10	7	6	2	3	1	4	2
Missing	4	1	2	—	2	2	4	—	—	—
Capsizings	2	4	3	3	3	2	2	1	—	2
Others	—	1	1	1	1	2	1	—	—	2
<i>Total</i>	42	39	52	50	43	41	40	19	14	22
Serious casualties										
Nature of Casualty										
Collisions	2	4	4	3	4	4	2	—	2	—
Strandings	2	3	—	4	2	3	3	2	4	2
Floodings	4	3	3	2	7	6	2	5	4	1
Fires and explosions	3	2	2	3	5	1	—	1	1	1
Capsizings	—	—	1	—	—	1	1	1	1	—
Others	—	1	1	—	—	1	2	—	1	3
<i>Total</i>	11	13	11	12	18	16	10	9	13	7
Minor casualties										
Nature of Casualty										
Collisions/contacts	27	13	13	30	16	8	15	19	10	18
Strandings/groundings	21	15	12	13	24	25	27	24	34	49
Machinery damage	7	9	13	36	53	106	132	84	157	233
Fires and explosions	8	6	4	8	14	8	3	10	16	16
Heavy weather and lists	1	1	1	—	3	1	2	2	—	3
Others	20	12	19	29	34	46	65	44	75	103
<i>Total</i>	84	56	62	116	144	194	244	183	292	422

Table 12 Yearly analysis of casualties to fishing vessels: 1979 to 1988: By number and incident rate based on per hundred vessels at risk

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Vessels 24 metres or more										
Total losses	1	—	2	2	3	3	4	1	4	—
Incident rate	0.4	—	0.8	0.8	1.3	1.4	2.0	0.5	1.6	—
Serious casualties	1	3	1	2	1	2	3	—	4	—
Incident rate	0.3	1.2	0.4	0.8	0.4	0.9	1.5	—	1.6	—
Minor casualties	38	19	17	23	15	7	8	16	23	16
Incident rate	14.0	7.6	6.9	9.6	6.5	3.2	4.0	7.4	9.1	5.9
Number of vessels 24 metres or more in length ^a	272	246	245	239	231	217	200	219	253	273
Vessels between 12–24 metres										
Total losses	30	29	26	28	20	18	17	9	8	10
Incident rate	1.4	1.3	1.2	1.3	1.0	0.9	0.9	0.5	0.5	0.6
Serious casualties	9	7	6	9	12	8	6	3	7	5
Incident rate	0.4	0.3	0.2	0.4	0.6	0.4	0.3	0.2	0.4	0.3
Minor casualties	39	33	31	60	62	53	54	48	96	125
Incident rate	1.8	1.5	1.4	2.8	3.1	2.7	2.9	2.9	5.6	7.2
Number of vessels between 12–24 metres in length ^a	2,092	2,132	2,136	2,073	1,973	1,934	1,852	1,642	1,700	1,731
Vessels less than 12 metres										
Total losses	11	10	24	20	20	20	19	9	2	12
Incident rate	0.2	0.2	0.4	0.4	0.4	0.4	0.3	0.1	0.03	0.2
Serious casualties	1	3	4	1	5	6	1	6	2	2
Incident rate	0.02	0.1	0.1	0.02	0.1	0.1	0.01	0.1	0.03	0.03
Minor casualties	7	4	14	63	67	134	182	119	173	281
Incident rate	0.1	0.1	0.2	1.4	1.4	2.5	3.1	1.9	2.8	4.5
Number of vessels less than 12 metres in length ^a	4,878	4,512	4,970	4,485	4,806	5,433	5,868	6,305	6,251	6,260

^aSource: Sea Fisheries Statistical Tables, MAFF. Figures for 1988 are provisional.

Table 13 Formal Investigations into casualties 1988

No formal investigations were ordered by the Department into the cause of casualties to fishing vessels occurring in 1988.

Part II—Accidents to men

IIA—Merchant Vessels (i) Deaths of crew members

Table 14 Deaths of crew members on board ships (other than from disease). Summary by nature of death

<i>Nature of death</i>	<i>1987</i>	<i>1988</i>
Deaths from Casualties to vessels:		
Capsizings	39	—
Foundering	—	4
Strandings	—	—
Collisions	—	—
Missing vessels	—	—
Fires/explosions	—	2
<i>Sub total (a) Casualties to vessels</i>	<i>39</i>	<i>6</i>
Deaths from accidents on board—other than casualties to vessels:		
Embarking/disembarking	—	1
Slip/fall on ship—same level	—	—
Slip/fall on ship—different levels	—	—
Fall overboard	2	2
Manual handling	—	—
Opening/closing hatches	—	—
Involving rope/hawser	—	1
Involving winches/ lifting plant	2	—
Hit by moving object he was not using	1	1
Involving machinery/equipment/tools	—	1
Other accidents	—	1
<i>Sub total (b) Accidents on board</i>	<i>5</i>	<i>7</i>
Other deaths		
Missing-at-sea	3	—
Suicide	—	—
Homicide	—	—
<i>Sub total (c) Other deaths except disease</i>	<i>3</i>	<i>—</i>
Total	47	13
Death Rate per 1,000 at risk		
<i>Sub totals (a) & (b)</i>	<i>1.59</i>	<i>0.52</i>
<i>Total (a, b & c)</i>	<i>1.70</i>	<i>0.52</i>

Table 15 Deaths of crew members on board ships (other than from disease) by category and age

<i>Age</i>	<i>16 to 19</i>	<i>20 to 24</i>	<i>25 to 29</i>	<i>30 to 34</i>	<i>35 to 39</i>	<i>40 to 44</i>	<i>45 to 49</i>	<i>50 to 54</i>	<i>55 to 59</i>	<i>60 & Over</i>	<i>Total by Cat 1988</i>	<i>Total by Cat 1987</i>
Category												
Master, Deck Officers & Cadets	—	—	2	1	—	—	—	—	—	—	3	2
Engineering Officers & Cadets	—	—	—	—	—	—	—	—	1	—	1	4
Deck Ratings	—	—	1	—	2	2	1	1	—	1	8	7
Engineer Ratings	—	—	—	—	—	—	—	—	—	—	—	2
Catering/Steward/Purser's staff	—	—	—	—	—	1	—	—	1	—	1	31
General Purpose Ratings	—	—	—	—	—	—	—	—	—	—	—	—
Other Crew (Specialists etc)	—	—	—	—	—	—	—	—	—	—	—	1
<i>Total by Age 1988</i>	—	—	3	1	2	3	1	1	1	1	13	—
<i>Total by Age 1987</i>	4	6	7	5	9	7	5	2	1	1	—	47

Table 16 Deaths from disease of crew members on board ship by nature of disease

<i>Nature of Disease</i>	<i>1987</i>	<i>1988</i>
Cerebral Haemorrhage	1	—
Heart Disease	5	4
Coronary Thrombosis	3	4
Aneurysm	—	1
Other Diseases	1	5
<i>Total</i>	10	14

Table 17 Death from disease of crew members on board ship by category and age

<i>Category</i>	<i>1987</i>	<i>1988</i>	<i>Age</i>	<i>1987</i>	<i>1988</i>
Master, Deck Officers & Cadets	—	3	16 to 24	—	—
Engineering Officers & Cadets	2	3	25 to 34	—	1
Deck Ratings	3	5	35 to 44	1	1
Engineer Ratings	1	1	45 to 54	4	6
Catering/Steward/Purser's staff	4	1	55 to 64	5	6
General Purpose Ratings	—	1	65 and over	—	—
Other Crew (Specialists etc)	—	—			
<i>Total</i>	10	14	<i>Total</i>	10	14

Table 18 Yearly analysis of all deaths of crew members on board ships 1979 to 1988: by nature of death

<i>Nature of Death</i>	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<i>Deaths from Casualties to vessels</i>										
Capsizings	—	—	—	—	—	—	—	—	39	—
Foundering	12	1	11	5	—	1	—	—	—	4
Strandings	—	—	—	—	—	—	—	—	—	—
Collisions	—	—	—	4	—	—	—	—	—	—
Missing Vessels	—	42	—	—	—	—	—	—	—	—
Fires/explosions	4	2	1	9	1	2	1	—	—	2
<i>Sub-total—Casualties</i>	16	45	12	18	1	3	1	—	39	6
<i>Deaths from accidents on board other than from casualties to vessels</i>										
	31	22	26	26	14	11	6	13	5	7
<i>Sub-total—All accidents</i>	47	67	38	44	15	14	7	13	44	13
Missing-at-sea	8	12	6	5	4	2	—	2	3	—
Suicide	5	4	3	2	1	2	—	—	—	—
Homicide	—	1	1	1	—	—	—	—	—	—
<i>Sub-total—All deaths other than from disease</i>	60	84	48	52	20	18	7	15	47	13
Disease	55	67	51	39	41	19	23	16	10	14
<i>Total Number of Deaths</i>	115	151	99	91	61	37	30	31	57	27
Thousands of Seamen at risk	81.1	78.4	73.0	65.0	55.7	49.8	44.5	33.3	27.7	25.0
Death Rate per 1,000 at risk										
for casualties	0.20	0.58	0.17	0.28	0.02	0.06	0.02	0.00	1.41	0.24
for accidents—other than casualties	0.38	0.28	0.36	0.40	0.25	0.22	0.13	0.39	0.18	0.28
for all deaths other than from disease	0.73	1.08	0.68	0.80	0.36	0.36	0.16	0.45	1.70	0.52
for total number of deaths	1.40	1.94	1.39	1.40	1.10	0.74	0.67	0.93	2.06	1.08

Notes: Deaths from accidents ashore abroad are not included in this Table.

(ii) Notifiable accidents—to crew members^a

Table 19 Analysis of accidents by type

Type	1987		1988	
	Total	%	Total	%
Collision, foundering or stranding	—	—	4	1
Fire	—	—	6	1
Explosion	3	—	2	—
Embarking/disembarking	19	3	25	4
Slip/fall on ship—same level	145	24	141	23
Slip/fall on ship—different levels	100	16	82	14
Fall overboard	3	—	3	—
Manual handling	98	16	98	16
Opening/closing hatches	6	1	10	2
Involving rope/hawser	48	8	28	5
Involving winches/lifting plant	38	6	33	5
Hit by moving object he was not using	26	4	29	5
Exposure to noxious substances	12	2	12	2
Electric shock/burn	8	1	4	1
Involving machinery/equipment/tools	51	8	69	11
Other accidents	60	10	57	9
Total number of Accidents	617		603	

Note: Accidents due to personal violence are not included in the above figures.

^a(1) These are accidents notifiable under the SORADO Regulations see page [2]

(2) They include those which resulted in a death—see Table 14—sub-totals (a) and (b).

Table 20 Analysis of accidents by cause

Cause (more than one cause may be applicable to a particular accident)	1987		1988	
	Total	%	Total	%
Working Methods				
Lifting/carrying by hand—incorrectly/too much	60	10	70	12
Over exertion	20	3	34	6
Manual or operating instructions inadequate	—	—	—	—
Failure to comply with manufacturer's instruction on use of equipment	6	1	9	1
Protective clothing/equipment not available/in poor condition	3	—	6	1
Failure to use protective clothing or equipment	19	3	23	4
Misunderstanding of superior's instructions	2	—	2	—
Inadequate supervision	11	2	4	1
Lack of training/knowledge	19	3	19	3
Inadequate organisation of work	21	3	14	2
Other unsafe working methods	46	7	40	7
Technical and other equipment				
Inadequately guarded machinery	1	—	2	—
Defective machinery/equipment	21	3	11	2
Unsafe design/construction of machinery/equipment	14	2	13	2
Collapse/overturning of machinery	3	—	3	—
Electrical faults	3	—	6	1
Burst pipe/faulty valve	3	—	8	1
Boiler blowback	—	—	—	—
Rope/hawser breaking	10	2	8	1
Rope/hawser jamming/coming off sheaves etc.	28	5	18	3
Safety cut-off failing	1	—	2	—
Moving part coming off machine	3	—	3	—
Hydraulic or pneumatic hose failing	1	—	—	—
Machine jamming or seizing or failing	4	1	10	2
Poor design/layout of equipment/vessel	24	4	28	5
Movement about ship				
Greasy/oily surface	30	5	25	4
Other slippery surface	56	9	67	11
Uneven surface/defective flooring	16	3	19	3
Inadequate illumination	11	2	9	1
Inadequate ventilation	—	—	1	—
Object dropped on person	9	1	9	1
Defective ladder/stairs	2	—	1	—
Unsafe use of defective portable ladder—other than for access to ship	—	—	7	1
Unfenced opening	2	—	4	1
Guard rail missing/defective	1	—	3	—
Litter/other obstruction left around	11	2	9	1
Door/hatch not secured/closing too quickly	12	2	15	2
Equipment stores not secured/stowed properly	5	1	9	1
Stumbling over door sill etc.	31	5	32	5
Inadequate or no warning notice/safety colour coding	—	—	1	—
Ignoring a warning notice/safety colour coding	2	—	1	—
Entering a 'dangerous space' without authority	—	—	—	—
Cargo not secured/stowed properly	5	1	4	1

Table 20 Analysis of accidents by cause (Continued)

Cause (more than one cause may be applicable to a particular accident)	1987		1988	
	Total	%	Total	%
Access (Embarking/disembarking)				
No means of access deployed	3	—	2	—
Deficient, or no safety net rigged	1	—	2	—
Access equipment too short	—	—	1	—
Access equipment not secured	1	—	4	1
Access equipment not adjusted for movement of ship	2	—	—	—
Access equipment otherwise unsafe	2	—	2	—
Ship's guard rail defective	1	—	1	—
Not using means of access authorised by Access Regulations	2	—	5	1
Human				
Alcohol	17	3	22	4
Non-prescribed drugs	1	—	—	—
Flip flops, loose clothing, long hair etc.	6	1	5	1
Negligence/carelessness of injured person	121	20	131	22
Negligence/carelessness of non-injured person	23	4	17	3
Tiredness—mental/physical	16	3	10	2
Tension	4	1	2	—
Existing illness/other human factors	15	2	6	1
Miscellaneous				
Ship movement	71	12	58	10
Sea washing in-board	8	1	4	1
Noise	1	—	—	—
Other	63	10	52	9
No known cause	32	5	36	6

Note: Percentages are percentages of *accidents reports* which mentioned each cause.

Table 21 Analysis of accidents by place

<i>Place</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
On small boats used for access/painting etc.	21	3	15	2
On gangway etc.	13	2	17	3
Aloft	3	—	3	—
Working overside	2	—	2	—
Forecastle head	42	7	30	5
After mooring deck	40	6	37	6
Other 'on-deck' areas	129	21	100	17
Stairs/non-portable ladder	54	9	47	8
Passageways outside the crew/passenger accommodation areas	13	2	9	1
Engine room or workshop	77	12	101	17
Pump room	3	—	2	—
Entry place to a cargo space, including hatches	2	—	11	2
Ro/ro deck (including the ramp)	39	6	32	5
Tank—for LNG, or bulk liquids	3	—	2	—
Other cargo spaces	4	1	8	1
Bridge and associated rooms	10	2	8	1
Other machinery spaces	8	1	16	3
Enclosed space/duct	7	1	3	1
Galley and its store rooms	47	8	54	9
Crew accommodation	45	7	43	7
Passenger accommodation	15	2	15	2
Other places on board	40	6	48	8
Total number of accidents	617		603	

Table 22 Analysis of accidents by activity

<i>Activity</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
Access	31	5	32	5
Leisure activity (excludes sleeping, eating etc.)	11	2	18	3
Moving about ship	110	18	104	17
Any towing operation	13	2	11	2
Mooring/anchoring	35	6	26	4
Casting off/weighing anchor	11	2	12	2
Moving hatch covers	5	1	11	2
Lifting/carrying by hand	96	16	95	16
Lifting/carrying mechanically	20	3	16	3
De-rusting/painting/cleaning	29	5	27	4
Lighting/opening the boiler	—	—	1	—
Opening/closing a pressurised system/pipe	6	1	8	1
Using sharp hand tools/knives	8	1	14	2
Using other portable tools/implements	30	5	27	4
Using electrical equipment or fittings	10	2	6	1
Using fixed machinery	12	2	15	2
Watchkeeping	19	3	14	2
Lowering/raising small boat, survival craft or starting its engine or a fire pump	34	6	17	3
Going through doorway or opening	40	6	33	5
Other activities	97	16	116	19
Total number of accidents	617		603	

Table 23 Analysis of accidents by category and age of crew

<i>Category</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
Master, Deck Officers & Cadets	72	11	52	8
Engineering Officers & Cadets	95	14	111	18
Radio Officers	2	—	—	—
Catering Officer/Purser	9	1	4	1
Deck Rating	230	35	217	35
Engineer Rating	52	8	60	10
Catering/Steward Ratings	159	24	137	22
General Purpose/etc. Rating	27	4	20	3
Other Crew Duties	19	3	13	2
Total number of injured persons	665		614	

<i>Age</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
0-15	—	—	—	—
16-19	20	3	25	4
20-24	80	12	61	10
25-29	97	15	93	15
30-34	106	16	92	15
35-39	91	14	89	14
40-44	77	12	70	11
45-49	78	12	65	11
50-54	57	9	62	10
55-59	46	7	40	7
60 and over	13	2	17	3
Not known	—	—	—	—
Total number of injured persons	665		614	

Note: Some accidents resulted in more than one crew member being injured. For number of accidents see previous Table.

Table 24 Analysis of accident by main injury

<i>Main injury</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
Death	44	7	13	2
Fracture of the skull, spine, pelvis, major bone in arm/leg	45	7	36	6
Other fractures	111	17	103	17
Amputation of a hand/foot	1	—	—	—
Loss of sight in an eye—if probably permanent	2	—	1	—
Other eye injuries	17	3	18	3
Asphyxiation due to lack of oxygen in an enclosed space	—	—	1	—
Concussion	12	2	12	2
Burn/scald	20	3	21	3
Strained back	68	10	57	9
Other strains/sprains and hernias	65	10	60	10
Dislocation	12	2	13	2
Hyperthermia—body temperature too hot	—	—	—	—
Hypothermia—body temperature too cold	—	—	1	—
Loss of one or more knuckles	4	1	4	1
Crush injury	44	7	43	7
Bruising	78	12	99	16
Other wounds—cuts, lacerations	80	12	74	12
Chemical poisoning/burns	8	1	6	1
Electric shock/burns	3	—	1	—
Torn cartilage/ligaments/muscle	39	6	29	5
Other injuries	12	2	22	4
Total number of injured persons	665		614	

Note: See Notes to Table 23.

Table 25 Analysis of accident—whether on or off duty

<i>On or off duty</i>	<i>1987</i>		<i>1988</i>	
	<i>Total</i>	<i>%</i>	<i>Total</i>	<i>%</i>
On duty	579	87	531	86
Off duty	86	13	83	14
Total number of injured persons	665		614	

Note: See Notes to Table 23.

(iii) Notifiable accidents—to passengers

Table 26 Accidents to and deaths of passengers—other than from disease on board ship—by nature of accident and type of injury

<i>Nature of accident</i>	1987		1988	
	<i>Fatal</i>	<i>Non-Fatal</i>	<i>Fatal</i>	<i>Non-Fatal</i>
Casualties to vessels	1	—	—	—
Embarking/disembarking	—	5	—	4
Slip/fall same level	—	37	—	40
Slip/fall different levels	2	25	1	14
Falls overboard	1	—	—	1
Other accidents	—	10	—	9
<i>Sub-total (a)</i>	4	77	1	68
Missing-at-sea	—	—	—	—
Suicide	2	—	—	—
Homicide	—	—	—	—
<i>Sub-total (b)</i>	2	—	—	—
<i>Total</i>	6	77	1	68

<i>Main injury caused by an accident</i>	1987	1988
Death	154	1
Fractures	57	49
Loss of hand/foot	—	—
Loss of sight	—	—
Crush injury	1	1
Cuts/lacerations	4	5
Other injuries	12	13
<i>Total</i>	228	69

IIB—Fishing Vessels

Table 27 Deaths of fishermen on fishing vessels: 1988 (other than from disease or personal violence)

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Deaths from casualties to vessels				
Capsizings	4	—	—	4
Foundering	14	—	—	14
Strandings/Groundings	—	—	—	—
Collisions	—	—	—	—
Missing vessels	—	—	—	—
Fires/Explosions	1	—	—	1
Others	2	—	—	2
<i>Sub-total (a) casualties to vessels</i>	21	—	—	21
Deaths from accidents on board—other than casualties to vessels				
Missing at sea	1	—	—	1
Falls overboard	1	1	—	2
Other slips or falls	—	—	—	—
Manual handling	—	—	—	—
Mechanical lifting	—	—	—	—
Opening/closing hatches	—	—	—	—
Involving machinery/equipment	—	1	—	1
Hit by moving object	—	1	—	1
Electric shock	—	—	—	—
Embarking/disembarking	—	—	—	—
Others	—	1	—	1
<i>Sub-total (b) accidents on board</i>	2	4	—	6
<i>Total (a) & (b)</i>	23	4	—	27

Table 28 Analysis of accidents on fishing vessels by type: 1988

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Type of accident				
Capsizing	1	—	—	1
Collision, foundering or stranding	—	—	—	—
Fire/Explosions	1	1	—	2
Missing at Sea	1	—	—	1
Fall overboard	1	2	—	3
Other slip or fall	10	6	2	18
Manual handling	6	1	4	11
Mechanical lifting	2	1	—	3
Opening/closing hatches	—	1	—	1
Involving machinery/equipment	4	7	1	12
Hit by moving object	4	6	1	11
Electric shock	—	—	—	—
Embarking/disembarking	—	—	—	—
Other accidents	6	6	2	14
Total number of accidents	36	31	10	77

Table 29 Analysis of accidents on fishing vessels by cause: 1988

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Cause (more than one cause may be applicable to a particular accident)				
Lifting/carrying by hand—incorrectly	—	1	5	6
Failure to use protective clothing or equipment	—	—	—	—
Failure of deck machinery of equipment	1	1	1	3
Faulty valve	—	—	—	—
Lifting gear wrongly used or defective	4	4	1	9
Trawl boards wrongly used or defective	1	1	—	2
Other fishing gear	7	12	1	13
Mooring or towing gear	1	—	—	1
Slippery surface	5	2	—	7
Unsecured non-fishing gear/etc. on deck	—	2	—	2
Door or hatch not secured	—	1	—	1
Problems embarking/disembarking	—	2	1	3
No means of access used	—	1	—	1
Ship movement	8	5	2	15
Sea washing inboard	4	5	—	9
Negligence/carelessness of injured person	4	1	—	5
Failure to comply with orders/warnings	1	1	—	2
Alcohol	—	1	—	1
Other	6	5	1	12
No known cause	4	—	1	5

Table 30 Analysis of accidents on fishing vessels by activity: 1988

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Activity				
Embarking/disembarking	1	2	1	4
Watchkeeping	2	2	1	5
Preparing/stowing fishing gear	3	5	1	9
Shooting gear	3	6	1	10
Hauling gear	11	10	1	22
Using deck machinery	2	3	—	5
Gutting fish	3	—	—	3
Handling/stowing fish	2	—	—	2
Workshop duties	—	2	1	3
Mooring or anchoring	2	—	—	2
Casting off or weighing anchor	1	—	—	1
Galley/mess deck duties	—	—	2	2
Off duty activities	—	1	—	1
Other	6	—	2	8
Total number of accidents	36	31	10	77

Table 31 Analysis of accidents on fishing vessels by category and age of person: 1988

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Category				
Skipper or officer	4	5	3	12
Fisherman	30	20	3	53
Trainee fisherman	1	3	—	4
Engineroom crew	—	1	2	3
Other crew	2	3	2	7
Other person on business	—	—	—	—
Other non-crew	2	—	—	2
Total number of injured persons	39	32	10	81

<i>Vessel length (Metres)</i>	<i>Under 24.4</i>	<i>24.4 but under 40</i>	<i>40 and over</i>	<i>Total</i>
Age				
0-15	—	—	—	—
16-19	1	3	—	4
20-24	10	5	1	16
25-29	5	3	1	9
30-34	3	5	1	9
35-39	6	5	1	12
40-44	4	4	2	10
45-49	5	5	1	11
50-54	3	—	1	4
55-59	2	2	1	5
60 and over	—	—	1	1
Not known	—	—	—	—
Total number of injured persons	39	32	10	81

Note: Some accidents resulted in more than one person being injured.