

## **Fishery Statistics 2006**

This series consists mainly of primary statistics, statistics from statistical accounting systems and results of special censuses and surveys, for reference and documentation purposes. Presentation is basically in the form of tables, figures and necessary information about data, collection and processing methods, and concepts and definitions. In addition, a short overview of the main results is given. The series also includes Statistical Yearbook of Norway.

|  | <b>Symbols in tables</b>                        | <b>Symbol</b> |
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## Preface

This publication presents a statistical survey of the fishing industry and comprises a sample of accessible statistics. From the sea fisheries the publication presents statistics of fishermen, fishing vessels, catches and economic results. This edition also contains landings in Norway from foreign vessels. It also includes statistics of fish processing industry, external trade of fish and an overview of the state of some important fish stocks.

The Directorate of Fisheries issued the publication until 1977. The 1977 issue was the first one published by Statistics Norway. The Directorate of Fisheries still produces a considerable part of the database for the tables presented in the publication, as well as contributing to the text of chapter 1, 2, 4 and 6.

No changes has been made in the 2006-edition compared to the 2005-edition. The 2005-edition was thoroughly examined and some considerable changes and simplifications were made. In return, more details are now published on the Internet.

A Norwegian edition for 2006 was published in May 2008.

Preliminary figures for fisheries 2007 were presented on Statistics Norway's web pages February 2008.

The entire publication is presented on the web in PDF format, but the tables can be downloaded in Excel format. The Internet-address is:  
<http://www.ssb.no/english/subjects/10.05/>

For more information the Directorate of Fisheries has web pages on the Internet. The Internet-address is: <http://www.fiskeridir.no>

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Statistics Norway, 30 October 2008  
Oslo/Kongsvinger,

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Nils Håvard Lund

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## 1. Background and purpose

### 1.1. Purpose and history

The Fishery statistics presents an overview of fishermen, fishing vessels, fish stocks, catches, employment and the economy. The fishery statistics were first displayed in a publication of its own in 1868. The Directorate of Fisheries took over the preparation of the publication in 1900. As from 1977, Statistics Norway has been the responsible publisher in co-operation with the Directorate of Fisheries. Up to the 2004-edition, the directorate still produced a considerable part of the tables. As of 2005, Statistics Norway receives the catch data on a detailed level and produces the tables itself. This gives Statistics Norway more alternatives in what to publish, and it also makes it easier to answer various requests from the public. The paper edition includes fewer tables compared with earlier editions, on the other hand one can now find figures on a more detailed level on the Internet.

*Fishermen and fishing vessels*

Chapter 2 presents an overview of fishermen and fishing vessels engaged in professional fishery, sealing and whaling. The statistics are based upon administrative data sources founded by legislation and regulations.

#### **Fishermen**

Participation in income-producing fishery, sealing and whaling is regulated by the law of January 2000 (law of participation). The law is used to adapt the catching capacity to the variable resources, by regulation of participation. Further details are given in chapter 4.2.

The Directorate of Fisheries collected yearly, before 1982, information about the number of fishermen from the municipal fishery committees. This information was mainly based upon the municipal register of fishermen. The registration rules were changed in 1982.

As from 1 January 1981 the responsibility for the Register of Fishermen was transferred from the National Insurance Institution to the Directorate of Fisheries. The local fishery committees deal with the content in application forms. The approved application forms are sent to the Directorate of Fisheries for registration on electronic data processing.

#### **Vessels**

The law of December 1917 states that all vessels engaged in fishery must be registered in the Register of Norwegian Fishing Vessels. The law of March 1999 § 4 also states that a vessel can not be used in income-producing fishing or catching without a permit from the authorities.

All licences, except for sealing and whaling, are assigned to one particular person or company and for one particular vessel. In other words, a licence does not automatically follow the vessel with change of ownership. Licences for sealing and whaling are assigned only to persons and not vessels. All licences are rights given by the Ministry of Fisheries and Coastal Affairs on application.

A new set of rules came into force in 2006 with the law of October 2006. The law regulates fishing with trawl, shrimp trawl, purse seine and purse seine and saithe. This regulation replaces several other regulations.

The Directorate of Fisheries publishes the Register of Norwegian Fishing Vessels each year on the Internet: [www.fiskeridir.no/fiskeridir/english](http://www.fiskeridir.no/fiskeridir/english)

The Directorate of Fisheries also publishes a booklet cover called "Norwegian fishing vessels, fishermen and licences". This can be found on the Internet: [www.fiskeridir.no/fiskeridir/english/statistics/booklets/fishery\\_booklets](http://www.fiskeridir.no/fiskeridir/english/statistics/booklets/fishery_booklets).

In some fisheries participation is conditioned by licence from the authorities. The Directorate of Fisheries records such licences.

Statistics Norway carried out fishery censuses in 1948, 1960 and 1971. The figures from these censuses represent the most reliable information about fishermen and fishing vessels for the census years. No new fishery census is planned.

*Stocks* Chapter 3 presents an overview of the development in some of the fish stocks in the Norwegian maritime zone. The figures are prepared by the Institute of Marine Research (IMR), which publishes the report "Havets ressurser og miljø" each year. The IMR has published this report since the early seventies.

*Catches* The legal acts relating to seawater fisheries, and to the marketing of raw fish, are the basis for collecting landing- and contract notes, which the catch statistic is based on.

The catch statistics of chapter 4 cover all catches of marine fish delivered in Norway or abroad by Norwegian fishermen. Catches of marine fish delivered by Norwegian vessels which have bought quotas from other countries are included. Catches for the purpose of research are also included.

Figures from foreign vessels delivering catches in Norway can be found in separate tables. The statistical committee of UN decided in 1954 that the responsibility for the collection of information from landings and the production of the corresponding catch statistics should be linked to the flag state of the vessel. According to a law of 17. June 1966 there was a general prohibition on vessels from foreigner countries to bring their catches to Norwegian harbours. Exemptions were, upon application, given by the Ministry of Fishery. In 1993 the law was amended, and foreign vessels were allowed to deliver their catches to Norwegian harbours.

Chapter 4 also comprises sealing, whaling and the fisheries in other countries.

Norway established an economic zone of 200 nautical miles from 1. January 1977, and a fishery protection zone of 200 nautical miles around Svalbard from 15. June 1977. From 23. May 1980 Norway established an economic zone around Jan Mayen. There is a general prohibition on foreign fishermen to fish in the Norwegian economic zones. Norway and Russia has since 1978 each year negotiated an agreement that regulates the fisheries in the Barents Sea between the two states (Gråsonavtalen).

Norway has entered the following fishery agreements with other countries:

- Long-term agreements on reciprocal fishing rights with EU, Russia, Greenland and the Faroe Islands.
- Phasing-out agreements providing for transitional fishing rights to Poland.
- For the Skagerrak and the northern part of the Kattegat there is a special tripartite agreement between Denmark, Sweden and Norway.
- EU, Russia, Iceland, the Faroe Islands and Norway are allowed to fish Norwegian spring-spawning herring in Norwegian waters.
- Greenland, Iceland and Norway can fish capelin in each other's zones.

Norway is a member of NEAFC (The North East Atlantic Fisheries Commission) and NAFO (Northwest Atlantic Fisheries Organization), which administer the fisheries in the North East- and North West Atlantic.

Each year The Advisory Committee on Fishery Management (ACFM) gives recommendations for total allowable catch (TAC) of the different fish species, which are the basis for Norway's agreements with other countries.



*Processing and external trade* Chapter 5 comprises establishments, employment and some economic relations in the fish processing industry. It also comprises export and import of fish and fish products. Please note that the tables comprise all processing and trade of fish and fish products, irrespective whether the fish originates from fisheries or fish farming.

The figures of establishments, employment and the fish processing industry are prepared by Statistics Norway, Division for Energy and Industry Production Statistics. The manufacturing statistics offer a detailed overview on employment and value added by industry and region. The manufacturing statistics were published for the first time in 1876 for the reference years 1870-1874.

The figures of export and import are prepared by Statistics Norway, Division for External Trade. The purpose of the external trade statistics is to give information about the commodity flows between Norway and other countries. The monthly statistics on external trade in goods have been published since 1913.

*Profitability* Chapter 6 deals with national accounts figures of the fishing industry and operating profit of the fishing fleet.

The national accounts figures are prepared by Statistics Norway, Division for National Accounts. The statistics are designed to provide a consistent and comprehensive survey of the overall national economy. The first national accounts for Norway based on modern principles were published by Statistics Norway in 1952. In the 1950s, national accounts figures were compiled back to 1865.

The figures of operating profit for whole year operating vessels come from the Directorate of Fisheries' Profitability Survey of the Fishing Fleet. The survey is based on the accounts of a sample of owners of such vessels. Statistics Norway has carried out the sample and method of estimation. As of 2004, the survey has been done entirely by the Directorate of Fisheries, and is a continuance of the survey published by the Budget Commission of Fishery since 1966.

## 1.2. Users and applications

The purpose of collecting data from catches is to gather information necessary to secure a viable administration of the marine resources. This is done by controlling resources and quotas, and by having fishery statistics of good quality.

The data forms the basis for research work in connection with regulations, strategic analysis, analysis of structure of the fishing fleet, and also the consequences of administrative actions on the industrial economy. The data also forms the basis of fulfilling Norway's obligation to report to international organisations.

Estimates on the stocks and catch statistics are used to make agreements between countries when deciding on quotas and catch regulations, while scientists use statistics in their assessments of the stocks.

Figures from the fishery statistics are feeded into the national accounts, which are an essential information source for the analysis of the economic development and economic structure in Norway.

The Directorate of Fisheries has in connection with the Profitability Survey, set up a reference group. The reference group shall ensure that the users need for relevant information of high quality is available. The reference group has consultative authority when it comes to presentations, contents and the use of methodology in the survey.

The fishery statistics is otherwise used by public authorities and the general public, research institutions, students, media, financial analysts, interest groups and national and international organisations.

## 2. Fishermen and fishing vessels

### 2.1. Main results

Constantly fewer fishermen are participating in the fisheries, a trend that has been lasting for a while. Since 2000 it is those with fishing as a secondary occupation which has declined relatively the most.

In 2006, 13 932 persons were registered in the Register of Norwegian Fishermen. In 1990 there were more than twice as many fishermen. Compared with 2005, 4.7 per cent fewer fishermen were registered in 2006. Close to 80 per cent were registered with fishing as main occupation, and Nordland and Møre og Romsdal counties had most fishermen.

The number of fishing vessels is also declining. The large reduction in the last years has several causes. The Directorate of Fisheries has carried out an extensive quality control of the Register of Norwegian Fishing Vessels. In 2004 a yearly fee for all vessels in the register was induced. In 2003 a condemnation system for smaller vessels with licence to fish on the coast were introduced. A structural rearrangement among larger vessels fishing on the coast and in the deep-sea fleet is another cause.

In 2006, a total of 7 305 vessels were listed in the Register of Norwegian Fishing Vessels. This was 5.4 per cent less than the previous year. 65 new vessels were built in 2006. More than half of the vessels, 4 316 in total, were smaller than 10 meter. Nordland County had most vessels, 1 884 in total, while Møre og Romsdal was the county with most vessels above 28 meter. There were 625 licences in total, distributed to 344 vessels in the Register of Norwegian Fishing Vessels. Møre og Romsdal had most licences.

### 2.2. Statistics production

#### *Population*

The statistics comprises all fishermen registered in the Register of Norwegian Fishermen. The register ensures that every fisherman engaged in sea fisheries, whaling and sealing in Norway are registered. Fishermen are divided into those with fishery as main occupation (section B) and those where fishery is secondary occupation (section A).

The statistics comprise all vessels registered in the Register of Norwegian Fishing Vessels.

#### *Data sources*

Sources are the Register of Norwegian Fishermen, Register of Norwegian Fishing Vessels and the Register of Norwegian Fishing Licences. The Directorate of Fisheries is responsible for all the registers.

The Directorate of Fisheries' regional offices deal with the content in application forms. The approved application forms are sent to the Directorate of Fisheries for registration on electronic data processing.

The Directorate of Fisheries registers all vessels that are used in commercial fishing in the Registers of Norwegian Fishing Vessels. The vessel owner is obliged to report the vessel to the register and report removal by sale, condemnation and withdrawing from fishing activities.

#### *Collection of data*

The registers are continuously updated, and Statistics Norway receives data as per 31. December each year from the Directorate of Fisheries. The Register of Norwegian Fishermen and Register of Norwegian Fishing Vessels are also available on the Directorate of Fisheries' website.

*Control and revision* Control and revision of the data are carried out by the Directorate of Fisheries. As from 1. March 2003, the local representatives of the Directorate of Fisheries have taken over the responsibility of maintaining the information in the Register of Norwegian Fishing Vessels and the Register of Norwegian Fishing Licences.

### 2.3. Concepts, variables and classifications

*Definitions* *Fishermen* comprise all fishermen engaged in sea fisheries, whaling and sealing. Even crews on fishing vessels not directly taking part in fishing are included.

*Main occupation.* Persons listed in section B must have, among others, minimum 20 weeks of work in the fisheries or have an income from fisheries of at least the national insurance's basic amount.

*Secondary occupation.* Persons listed in section A must, among others, work in the fisheries and have a minimum income of half the national insurance's basic amount.

*Vessels* are classified by their largest length.

### 2.4. Sources of error and uncertainty

*Measurement and processing errors* Information from the Register of Norwegian Fishermen and the Register of Norwegian Fishing Vessels are counted 31. December each year. Information about vessels with licences is taken by combining the Register of Norwegian Fishing Vessels and the Register of Norwegian Fishing Licences.

Delegating the operations of the Register of Norwegian Fishing Vessels and the Register of Norwegian Fishing Licences to local representatives of the Directorate of Fisheries has reduced the lag in registering new information.

### 2.5. Comparability and coherence

*Comparability over time and space* The selection of tables for this edition has changed compared with earlier years, but the data sources are the same.

Figures on fishermen and vessels have also been published in NOS Historical Statistics 1978 and 1994, with time series going back to 1870.

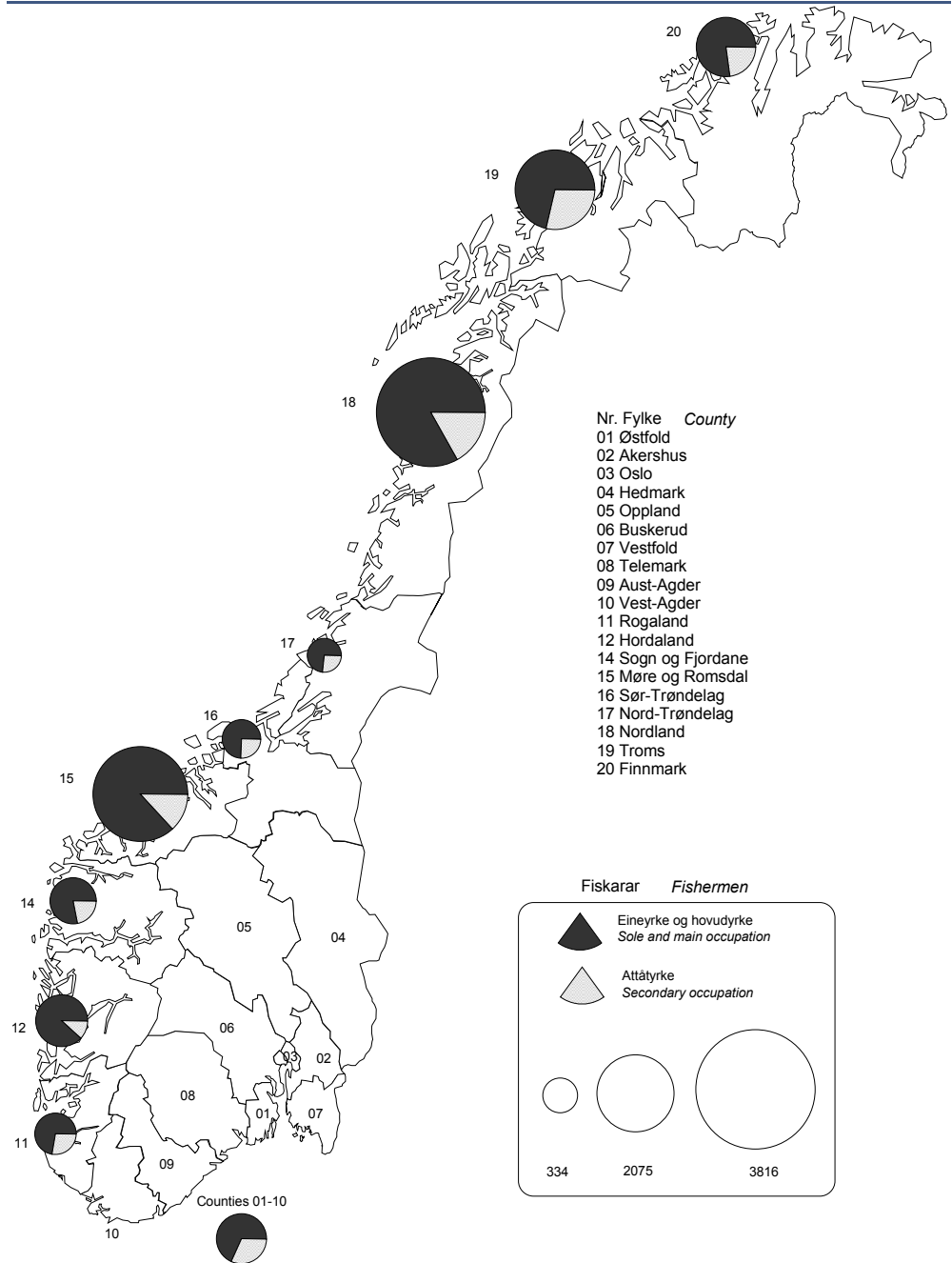
*Coherence with other statistics* The Directorate of Fisheries was responsible for publishing fishery statistics up to 1977. As from 1977, Statistics Norway has published this statistic under the name NOS Fishery Statistics.

Each year the Directorate of Fisheries publishes figures on fishermen, vessels and licences on their website:

[www.fiskeridir.no/fiskeridir/english/statistics/norwegian\\_fisheries](http://www.fiskeridir.no/fiskeridir/english/statistics/norwegian_fisheries)

The division for statistics in the Directorate of Fisheries also presents an overview of the development in the number of fishermen, vessels and licences in the publication "Norwegian fishing vessels, fishermen and licences".

Figure 1. Fishermen, by fishing as source of livelihood and county. 2006



Source: The Directorate of Fisheries.

**1. Fishermen, by fishing as source of livelihood. 1983-2006**

|                         | Number of fishermen, total |  | Main occupation |  | Secondary occupation |  |
|-------------------------|----------------------------|--|-----------------|--|----------------------|--|
|                         |                            |  |                 |  |                      |  |
| 1983 .....              | 28 304                     |  | 22 455          |  | 5 849                |  |
| 1984 .....              | 29 632                     |  | 22 864          |  | 6 768                |  |
| 1985 .....              | 29 566                     |  | 22 465          |  | 7 101                |  |
| 1986 .....              | 29 981                     |  | 22 619          |  | 7 362                |  |
| 1987 .....              | 29 915                     |  | 22 622          |  | 7 293                |  |
| 1988 .....              | 29 350                     |  | 22 048          |  | 7 302                |  |
| 1989 .....              | 28 655                     |  | 21 448          |  | 7 207                |  |
| 1990 .....              | 27 518                     |  | 20 475          |  | 7 043                |  |
| 1991 .....              | 26 966                     |  | 20 003          |  | 6 963                |  |
| 1992 .....              | 26 752                     |  | 19 779          |  | 6 973                |  |
| 1993 .....              | 25 396                     |  | 19 072          |  | 6 324                |  |
| 1994 .....              | 22 920                     |  | 16 442          |  | 6 478                |  |
| 1995 .....              | 23 653                     |  | 17 160          |  | 6 493                |  |
| 1996 .....              | 23 397                     |  | 17 087          |  | 6 310                |  |
| 1997 .....              | 22 916                     |  | 16 661          |  | 6 255                |  |
| 1998 .....              | 21 298                     |  | 15 141          |  | 6 157                |  |
| 1999 .....              | 21 273                     |  | 15 328          |  | 5 945                |  |
| 2000 .....              | 20 075                     |  | 14 264          |  | 5 811                |  |
| 2001 .....              | 18 899                     |  | 13 679          |  | 5 220                |  |
| 2002 .....              | 18 501                     |  | 13 851          |  | 4 650                |  |
| 2003 <sup>1</sup> ..... | 17 156                     |  | 13 190          |  | 3 966                |  |
| 2004 <sup>1</sup> ..... | 15 489                     |  | 12 574          |  | 2 915                |  |
| 2005 <sup>1</sup> ..... | 14 626                     |  | 11 692          |  | 2 934                |  |
| 2006 .....              | 13 932                     |  | 11 060          |  | 2 872                |  |

<sup>1</sup> Revision of the register Fiskarmanntalet has resulted in changes compared to earlier published statistics for the years 2003-2005.

Source: The Directorate of Fisheries.

**2. Fishermen<sup>1</sup>, by fishing as source of livelihood and county. 2005-2006**

|                         | Number of fishermen, total |               | Main occupation |               | Secondary occupation |              |
|-------------------------|----------------------------|---------------|-----------------|---------------|----------------------|--------------|
|                         | 2005                       | 2006          | 2005            | 2006          | 2005                 | 2006         |
| <b>Total</b> .....      | <b>14 626</b>              | <b>13 932</b> | <b>11 692</b>   | <b>11 060</b> | <b>2 934</b>         | <b>2 872</b> |
| Østfold .....           | 193                        | 181           | 130             | 118           | 63                   | 63           |
| Akershus .....          | 37                         | 27            | 32              | 23            | 5                    | 4            |
| Oslo .....              | 26                         | 36            | 20              | 28            | 6                    | 8            |
| Hedmark .....           | 22                         | 20            | 22              | 20            | -                    | -            |
| Oppland .....           | 10                         | 13            | 10              | 12            | -                    | 1            |
| Buskerud .....          | 25                         | 16            | 20              | 15            | 5                    | 1            |
| Vestfold .....          | 98                         | 85            | 72              | 64            | 26                   | 21           |
| Telemark .....          | 103                        | 72            | 65              | 50            | 38                   | 22           |
| Aust-Agder .....        | 167                        | 148           | 112             | 97            | 55                   | 51           |
| Vest-Agder .....        | 373                        | 369           | 246             | 229           | 127                  | 140          |
| Rogaland .....          | 661                        | 613           | 476             | 441           | 185                  | 172          |
| Hordaland .....         | 1 073                      | 1 037         | 948             | 915           | 125                  | 122          |
| Sogn og Fjordane .....  | 867                        | 807           | 684             | 629           | 183                  | 178          |
| Møre og Romsdal .....   | 2 903                      | 2 807         | 2 564           | 2 438         | 339                  | 369          |
| Sør-Trøndelag .....     | 494                        | 495           | 376             | 366           | 118                  | 129          |
| Nord-Trøndelag .....    | 306                        | 302           | 230             | 220           | 76                   | 82           |
| Nordland .....          | 3 598                      | 3 372         | 3 003           | 2 802         | 595                  | 570          |
| Troms Romsa .....       | 2 188                      | 2 184         | 1 588           | 1 555         | 600                  | 629          |
| Finmark Finnmarku ..... | 1 482                      | 1 348         | 1 094           | 1 038         | 388                  | 310          |

<sup>1</sup> Revision of the register Fiskarmanntalet has resulted in changes compared to earlier published statistics for the year 2003-2005.

Source: The Directorate of Fisheries.

**3. Registered fishing vessels, by county. 1997-2006**

|                         | 1997          | 1998          | 1999          | 2000          | 2001          | 2002          | 2003         | 2004 <sup>1</sup> | 2005 <sup>1</sup> | 2006         |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|-------------------|-------------------|--------------|
| <b>Total</b> .....      | <b>13 635</b> | <b>13 248</b> | <b>13 196</b> | <b>13 017</b> | <b>11 922</b> | <b>10 640</b> | <b>9 914</b> | <b>8 188</b>      | <b>7 722</b>      | <b>7 305</b> |
| Østfold .....           | 202           | 203           | 196           | 189           | 186           | 146           | 141          | 120               | 121               | 118          |
| Akershus .....          | 35            | 35            | 37            | 36            | 28            | 20            | 21           | 16                | 13                | 12           |
| Oslo .....              | 15            | 17            | 15            | 14            | 16            | 10            | 9            | 5                 | 3                 | 2            |
| Hedmark .....           | -             | -             | -             | -             | -             | -             | -            | -                 | -                 | 1            |
| Oppland .....           | -             | -             | -             | -             | -             | -             | -            | -                 | -                 | 1            |
| Buskerud .....          | 21            | 20            | 18            | 10            | 9             | 7             | 8            | 4                 | 5                 | 5            |
| Vestfold .....          | 153           | 162           | 141           | 141           | 132           | 93            | 91           | 69                | 64                | 59           |
| Telemark .....          | 101           | 103           | 104           | 97            | 92            | 83            | 86           | 75                | 75                | 62           |
| Aust-Agder .....        | 221           | 226           | 233           | 196           | 174           | 142           | 141          | 118               | 110               | 103          |
| Vest-Agder .....        | 561           | 563           | 559           | 454           | 432           | 351           | 343          | 274               | 252               | 237          |
| Rogaland .....          | 623           | 619           | 607           | 611           | 492           | 489           | 492          | 426               | 398               | 375          |
| Hordaland .....         | 848           | 700           | 717           | 764           | 742           | 680           | 675          | 543               | 526               | 503          |
| Sogn og Fjordane .....  | 759           | 744           | 745           | 715           | 648           | 553           | 506          | 401               | 363               | 336          |
| Møre og Romsdal .....   | 1 571         | 1 522         | 1 499         | 1 471         | 1 389         | 1 171         | 1 127        | 949               | 883               | 814          |
| Sør-Trøndelag .....     | 499           | 505           | 488           | 463           | 374           | 365           | 348          | 298               | 293               | 307          |
| Nord-Trøndelag .....    | 436           | 406           | 422           | 453           | 449           | 335           | 324          | 216               | 199               | 198          |
| Nordland .....          | 3 437         | 3 332         | 3 342         | 3 342         | 3 191         | 2 729         | 2 528        | 2 127             | 2 010             | 1 884        |
| Troms Romsa .....       | 2 471         | 2 392         | 2 406         | 2 376         | 1 982         | 1 845         | 1 706        | 1 391             | 1 301             | 1 240        |
| Finmark Finnmarku ..... | 1 682         | 1 699         | 1 667         | 1 685         | 1 586         | 1 621         | 1 368        | 1 156             | 1 106             | 1 048        |

<sup>1</sup> Revision of the register of vessels has resulted in changes compared to earlier published statistics.

Source: The Directorate of Fisheries.

**4. Registered fishing vessels, by length of vessel and county. 2006**

|                         | Vessels total | Under 10 metres | 10-14.9 metres | 15-20.9 metres | 21-27.9 metres | 28 metres and over |
|-------------------------|---------------|-----------------|----------------|----------------|----------------|--------------------|
| <b>Total</b> .....      | <b>7 305</b>  | <b>4 316</b>    | <b>2 216</b>   | <b>299</b>     | <b>234</b>     | <b>240</b>         |
| Østfold .....           | 118           | 76              | 38             | 3              | 1              | -                  |
| Akershus .....          | 12            | 11              | 1              | -              | -              | -                  |
| Oslo .....              | 2             | 1               | 1              | -              | -              | -                  |
| Hedmark .....           | 1             | -               | 1              | -              | -              | -                  |
| Oppland .....           | 1             | 1               | -              | -              | -              | -                  |
| Buskerud .....          | 5             | 3               | 2              | -              | -              | -                  |
| Vestfold .....          | 59            | 39              | 20             | -              | -              | -                  |
| Telemark .....          | 62            | 41              | 21             | -              | -              | -                  |
| Aust-Agder .....        | 103           | 72              | 26             | 3              | 2              | -                  |
| Vest-Agder .....        | 237           | 161             | 50             | 14             | 10             | 2                  |
| Rogaland .....          | 375           | 219             | 107            | 15             | 14             | 20                 |
| Hordaland .....         | 503           | 302             | 127            | 12             | 15             | 47                 |
| Sogn og Fjordane .....  | 336           | 177             | 99             | 12             | 28             | 20                 |
| Møre og Romsdal .....   | 814           | 446             | 232            | 18             | 31             | 87                 |
| Sør-Trøndelag .....     | 307           | 183             | 112            | 6              | 4              | 2                  |
| Nord-Trøndelag .....    | 198           | 123             | 66             | 4              | 4              | 1                  |
| Nordland .....          | 1 884         | 1 005           | 639            | 129            | 83             | 28                 |
| Troms Romsa .....       | 1 240         | 822             | 329            | 51             | 21             | 17                 |
| Finmark Finnmarku ..... | 1 048         | 634             | 345            | 32             | 21             | 16                 |

Source: The Directorate of Fisheries.

**5. Fishing vessels, by building year and county. 2006**

|                         | Vessels, total | By year of construction |              |              |            |            |           | 2006      | Unknown |
|-------------------------|----------------|-------------------------|--------------|--------------|------------|------------|-----------|-----------|---------|
|                         |                | Before 1970             | 1970- 1979   | 1980-1989    | 1990-1999  | 2000-2005  |           |           |         |
| <b>Total</b> .....      | <b>7 305</b>   | <b>1 068</b>            | <b>2 057</b> | <b>2 677</b> | <b>833</b> | <b>584</b> | <b>65</b> | <b>21</b> |         |
| Østfold .....           | 118            | 21                      | 22           | 43           | 21         | 8          | 3         | 0         |         |
| Akershus .....          | 12             | 1                       | 4            | 5            | 1          | 1          | 0         | 0         |         |
| Oslo .....              | 2              | 0                       | 0            | 0            | 1          | 1          | 0         | 0         |         |
| Hedmark .....           | 1              | 1                       | 0            | 0            | 0          | 0          | 0         | 0         |         |
| Oppland .....           | 1              | 0                       | 0            | 1            | 0          | 0          | 0         | 0         |         |
| Buskerud .....          | 5              | 3                       | 0            | 2            | 0          | 0          | 0         | 0         |         |
| Vestfold .....          | 59             | 5                       | 11           | 24           | 12         | 7          | 0         | 0         |         |
| Telemark .....          | 62             | 6                       | 14           | 24           | 11         | 6          | 0         | 1         |         |
| Aust-Agder .....        | 103            | 12                      | 24           | 37           | 18         | 8          | 3         | 1         |         |
| Vest-Agder .....        | 237            | 36                      | 37           | 78           | 51         | 32         | 2         | 1         |         |
| Rogaland .....          | 375            | 72                      | 102          | 123          | 36         | 35         | 5         | 2         |         |
| Hordaland .....         | 503            | 72                      | 119          | 162          | 73         | 67         | 7         | 3         |         |
| Sogn og Fjordane .....  | 336            | 41                      | 72           | 147          | 51         | 21         | 4         | 0         |         |
| Møre og Romsdal .....   | 814            | 101                     | 244          | 288          | 108        | 65         | 6         | 2         |         |
| Sør-Trøndelag .....     | 307            | 42                      | 99           | 99           | 35         | 25         | 6         | 1         |         |
| Nord-Trøndelag .....    | 198            | 30                      | 60           | 67           | 22         | 17         | 2         | 0         |         |
| Nordland .....          | 1 884          | 316                     | 554          | 680          | 172        | 147        | 13        | 2         |         |
| Troms Romsa .....       | 1 240          | 159                     | 353          | 528          | 103        | 83         | 9         | 5         |         |
| Finmark Finnmarku ..... | 1 048          | 150                     | 342          | 369          | 118        | 61         | 5         | 3         |         |

Source: The Directorate of Fisheries.

**6. Number of licenses and participating vessels, by county. 2006**

| County                 | Licenses |             |                    |                  |                 |                |               |           |              |              |                              | Other <sup>2</sup> | Participating vessels <sup>1</sup><br>Total |
|------------------------|----------|-------------|--------------------|------------------|-----------------|----------------|---------------|-----------|--------------|--------------|------------------------------|--------------------|---|
|                        | Total    | Purse seine | Blue whiting trawl | Industrial trawl | Spring spawning | Mackerel trawl | Capelin trawl | Cod trawl | Shrimp trawl | Saithe trawl | North Sea trawl <sup>3</sup> |                    |   |
| 2005 .....             | 638      | 84          | 46                 | 41               | 46              | 37             | 101           | 53        | 81           | 10           | 104 (87)                     | 35                 | 352   |
| 2006 .....             | 625      | 84          | 45                 | 40               | 45              | 36             | 98            | 51        | 75           | 7            | 107 (90)                     | 37                 | 344   |
| <b>2006</b>            |          |             |                    |                  |                 |                |               |           |              |              |                              |                    |   |
| Eastern Norway .....   | 74       | -           | -                  | 2                | 9               | 6              | 10            | -         | -            | -            | 47 (41)                      | -                  | 50  |
| Rogaland .....         | 96       | 2           | -                  | 14               | 16              | 13             | 18            | -         | 1            | -            | 31 (28)                      | 1                  | 47  |
| Hordaland .....        | 119      | 36          | 25                 | 10               | 8               | 8              | 13            | -         | 3            | -            | 12 (11)                      | 4                  | 60  |
| Sogn og Fjordane ..... | 4        | 3           | -                  | -                | -               | -              | -             | -         | 1            | -            | -                            | -                  | 3   |
| Møre og Romsdal .....  | 141      | 22          | 15                 | 10               | 11              | 9              | 13            | 15        | 19           | 7            | 10 (4)                       | 10                 | 72  |
| Sør-Trøndelag .....    | 6        | 2           | 1                  | -                | -               | -              | 2             | -         | -            | -            | -                            | 1                  | 3   |
| Nord-Trøndelag .....   | 5        | 1           | 1                  | -                | -               | -              | 1             | -         | -            | -            | -                            | 2                  | 2   |
| Nordland .....         | 86       | 10          | 2                  | 3                | -               | -              | 18            | 14        | 24           | -            | 3 (3)                        | 12                 | 52  |
| Troms Romsa .....      | 57       | 6           | 1                  | 1                | -               | -              | 17            | 10        | 18           | -            | 3 (2)                        | 1                  | 34  |
| Finmark Finnmarku .... | 37       | 2           | -                  | -                | 1               | -              | 6             | 12        | 9            | -            | 1 (1)                        | 6                  | 21  |

<sup>1</sup> Some vessels may have supplementary licenses. <sup>2</sup> Purse seine fishing for saithe, danish seine, trawl license for argentinians and beamtrawl. <sup>3</sup> The figure in paranthesis shows licenses of North Sea trawl which are limited.

Source: The Directorate of Fisheries.



### 3. Stocks

#### 3.1. Main results

The Norwegian fish stocks are divided in three important areas; the Barents Sea, the Norwegian Sea and the North Sea/Skagerrak. The stocks in the Barents Sea are in good conditions, except for capelin and redfish, and unregistered cod-fishing is a big problem. In the Norwegian Sea all the pelagic stocks are in good conditions, while many stocks in the North Sea/Skagerrak have a poor recruitment.

The development of the stock of northeast arctic *cod* is shown in figure 2. The total stock increased to 2.4 million tonnes in 1993, after the eighties which were characterized by a heavy exploitation of the stock. Up to 1999 the stock declined again, but has recovered in recent years. The 2006 stock estimate is 1.3 million tonnes. The estimate of the spawning stock this year is 500 000 tonnes. Earlier sexual maturity has been an important reason for the rise in spawning stock biomass. The limit biomass for spawning stock (B lim) is 220 000 tonnes, while the precautionary biomass for spawning stock (B pa) is 460 000 tonnes. The stock is assessed to have a good reproduction capacity, but there is a risk for too high exploitation.

The total stock of northeast arctic *haddock* increased from a little over 50 000 tonnes in 1984 to 290 000 tonnes in 1986 (figure 3). After 1986 the stock size decreased for some years, but had a substantial growth up to 1994 (about 550 000 tonnes). The estimate of the total stock in 2005 is 370 000 tonnes with a spawning stock of 140 000 tonnes. The estimation for the stock in 2006 is unreliable and not published, but the stock is considered to be in good condition.

The spawning stock of northeast arctic *saithe* in 2006 was 651 000 tonnes (figure 4). The limit biomass for spawning stock (B lim) is 136 000 tonnes, while the precautionary biomass for spawning stock (B pa) is 220 000 tonnes. The stock is considered to be in good condition.

The development of the stock of Norwegian spring-spawning *herring* is shown in figure 5. The variation is caused by a combination of over-exploitation and natural causes. In 1987 the majority of the numerous 1983-year class reached maturity, and the spawning stock increased from about 1 million tonnes in 1987 to 2.9 million tonnes in 1988. The spawning stock in 2006 is estimated to be 10.3 million tonnes. The stock is in a positive trend with recruitment expected to increase in the coming years due to the strong 2002-year class. The limit biomass for spawning stock (B lim) is 2.5 million tonnes, while the precautionary biomass for spawning stock (B pa) is 5 million tonnes.

The capelin stock in the Barents Sea collapsed in 1986-1987, partly as a result of overfishing, but also from natural causes. It recovered rapidly after this, but dropped sharply again in 1993. The stock size of one year old and older capelin by autumn 2006 is estimated to 902 000 tonnes (figure 6). The estimate of the spawning stock is 72 000 tonnes, while the limit biomass for spawning stock (B lim) is 200 000 tonnes. This can be characterized as a collapse, but not assessed to be caused by fishing.

The spawning stock of *blue whiting* had its peak in 2003, but has since then declined (figure 7). This is mainly because of overfishing, and quotas were introduced in 2005. The estimate of the spawning stock in 2006 is 4.8 million tonnes. The limit biomass for spawning stock (B lim) is 1.5 million tonnes, while the precautionary biomass for spawning stock (B pa) is 2.25 million tonnes. The stock is assessed to be in good condition, but the exploitation is too high, which gradually will affect the spawning stock.

### 3.2. Statistics production

*Population* The statistic includes a selection of important stocks in the Norwegian maritime zone. These species are northeast arctic cod, northeast arctic haddock, northeast arctic saithe, Norwegian spring-spawning herring, capelin and blue whiting. Total stock and spawning stock, as well as limit biomass for spawning stock and precautionary biomass for spawning stock are mentioned.

*Data sources* The data comes from the Institute of Marine Research (IMR) and the International Council for the Exploration of the Sea (ICES). ICES draws up several reports with an overview of the development of each fish stock. The Institute of Marine Research publishes annually a report "Marine resources and environment", with information on the most important fish stocks.

*Estimation* Measurements from cruises, catch statistics and biological samplings from catches form the basis for stock estimations of northeast arctic *cod*, *haddock* and *saithe*. These figures are used by both ICES and IMR in their calculations when determining quotas.

IMR carries out annual cruises where the Norwegian spring-spawning *herring* spend the winter. Measurements are made using trawl haul and echo sounder.

The total stock of *capelin* is measured acoustic each autumn. The cruise covers the Barents Sea and adjacent areas. The stock estimation from the cruises is used as direct measure of stock size, and prognosis and advices on quotas are made based on models.

Calculations of blue whiting are based on many cruises, which use acoustic methods.

### 3.3. Concepts, variables and classifications

*Definitions* *B lim* is the limit biomass for a spawning stock. If the spawning stock is below this level, there is a higher risk that the stock reaches a level where it suffers from severely reduced productivity.

*B pa* is the precautionary biomass for a spawning stock. This level is set to avoid the risk of the spawning stock to decrease to or below the *B lim* because of uncertainties in the assessment.

### 3.4. Sources of error and uncertainty

*Measurement and processing errors* The models used in stock estimations are advanced and take into consideration mortality rate, growth, sexual maturity, predation and temperature. This can sometimes make the outcome and interpretations difficult.

There are some problems with estimating several of the important fish stocks because of varying quality of catch statistics. This is mainly because of discard and unregistered fishing.

### 3.5. Comparability and coherence

*Comparability over time and space* Figures on stock sizes were first published in NOS Fishery Statistics 1983. The selection of tables for this edition has changed compared with earlier years, but the data sources are the same. This edition is extended with text and figure on the blue whiting stock.

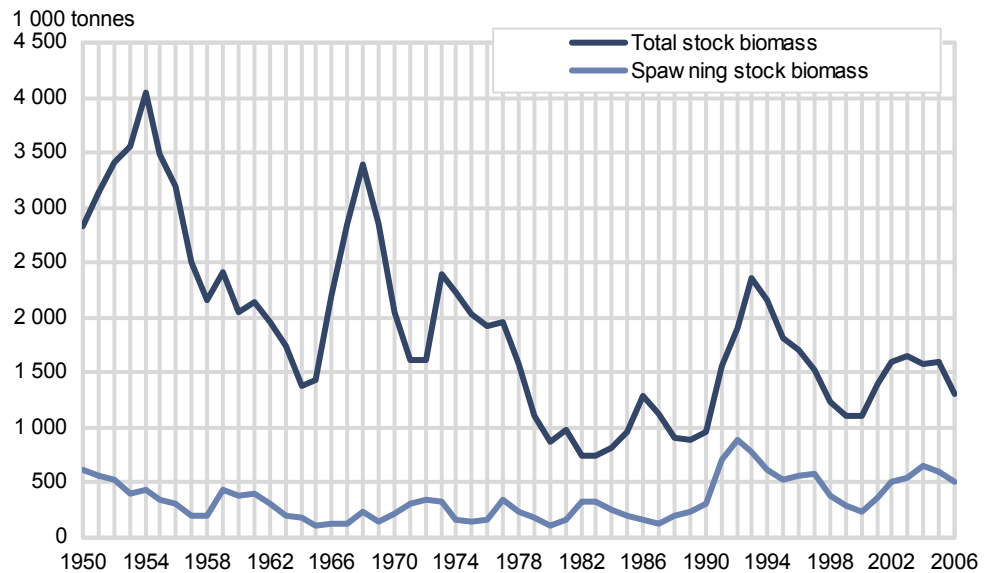
*Coherence with other statistics* The working groups of ICES publish different reports on their website, describing conditions of stocks and advices on how to manage the stocks. These reports cover about 135 different stocks:

<http://www.ices.dk/committe/acfm/comwork/report/asp/advice>

Institute of Marine Research publishes “Marine resources and environment”, a survey report on Norwegian maritime zones:  
[http://www.imr.no/produkter/publikasjoner/havets\\_ressurser](http://www.imr.no/produkter/publikasjoner/havets_ressurser)

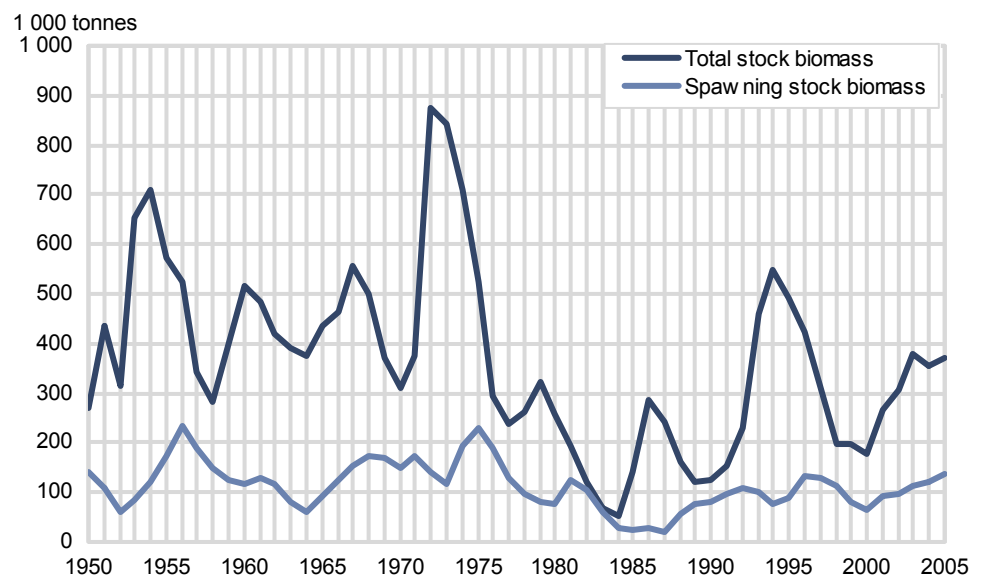
Statistics Norway also refers to fish stocks in the publication “National Resources and the Environment”: [http://www.ssb.no/emner/01/sa\\_nrm/](http://www.ssb.no/emner/01/sa_nrm/)

**Figure 2. Total and spawning stock biomass. Northeast Arctic cod. 1950-2006. 1 000 tonnes**



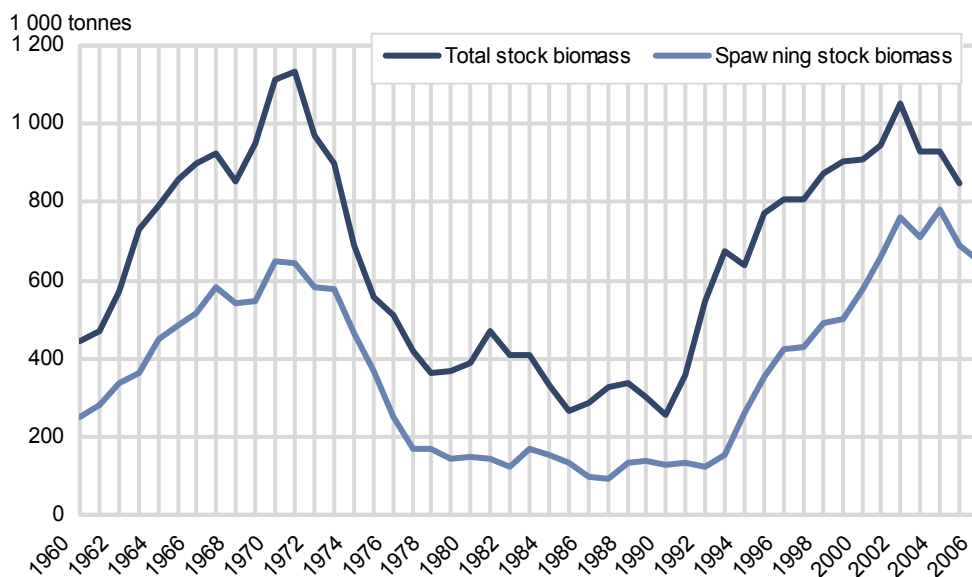
Source: Institute of Marine Research and ICES.

**Figure 3. Total and spawning stock biomass. Northeast Arctic haddock. 1950-2005. 1 000 tonnes**



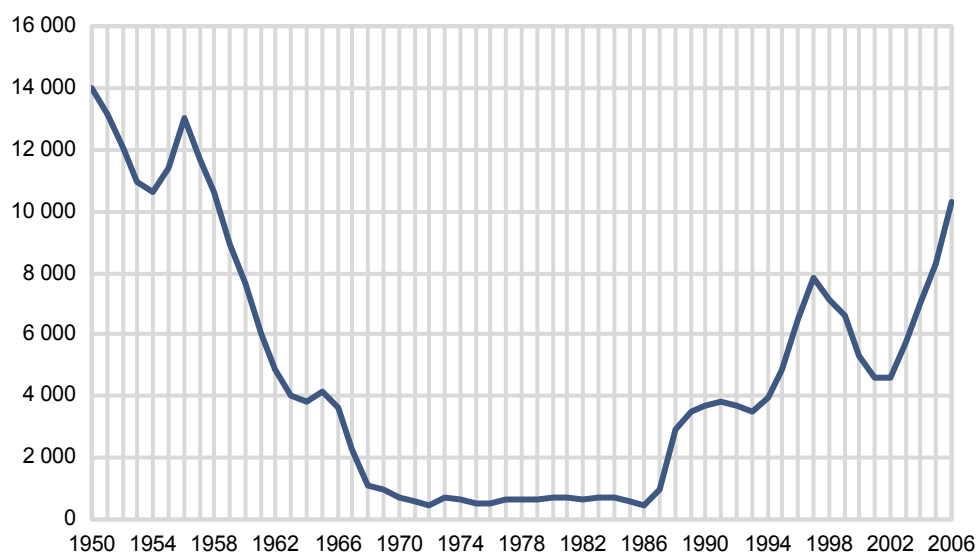
Source: Institute of Marine Research and ICES

**Figure 4. Total and spawning stock biomass. Northeast Arctic saithe. 1950-2006. 1 000 tonnes**



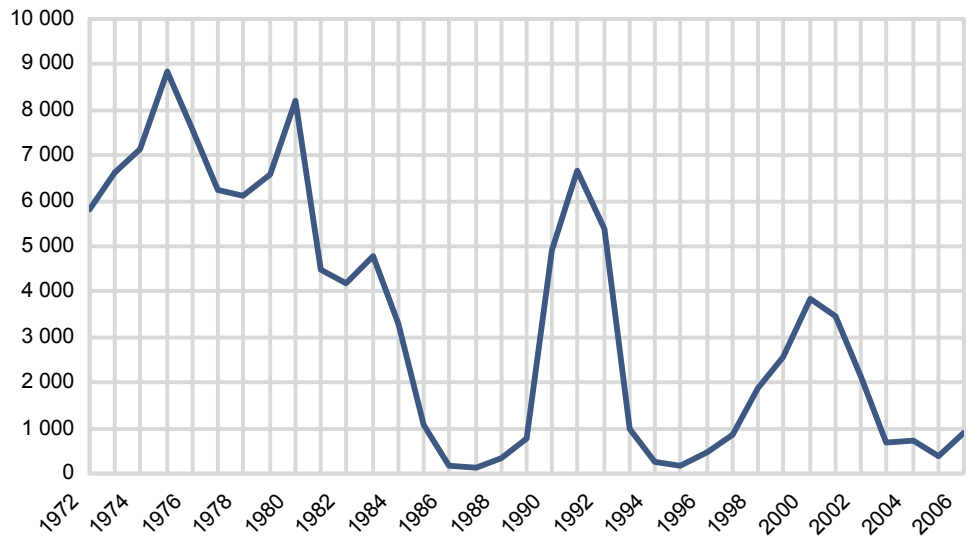
Source: Institute of Marine Research and ICES

**Figure 5 Spawning stock biomass. Norwegian spring-spawning herring. 1950-2006. 1 000 tonnes**

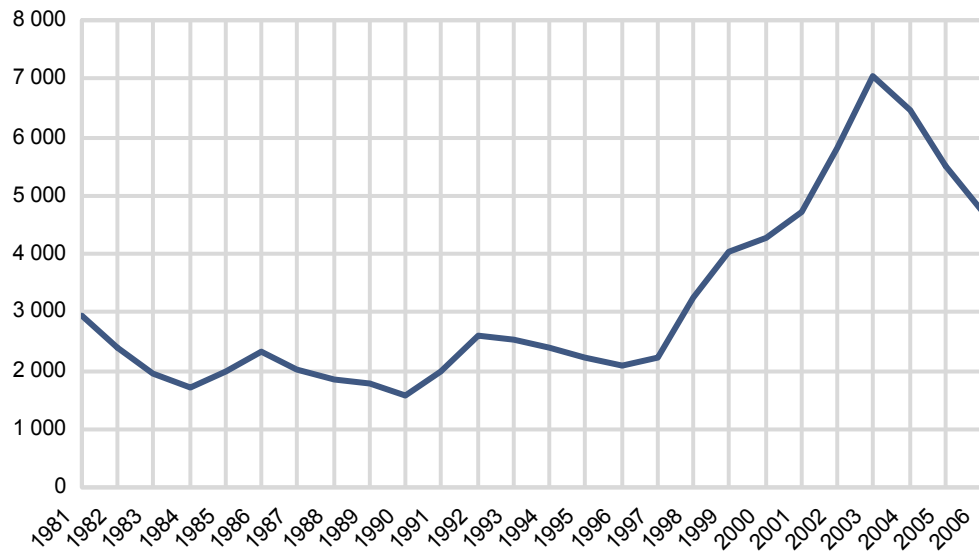


Source: Institute of Marine Research and ICES.

**Figure 6. Stock biomass of Barents Sea capelin (fish aged one year and over). 1972-2006. 1 000 tonnes**



**Figure 7. Spawning stock biomass. Blue whiting. 1981-2006. 1 000 tonnes.**



Source: Institute of Marine Research and ICES

## 4. The catch

### 4.1. Main results

Almost 2.26 million tonnes of fish, shellfish and molluscs were caught in 2006. This is almost 6 per cent less than in 2005. The total value of the catch was NOK 11.7 billion, the same as previous year. Pelagic fish dominated in quantity and also had the highest value. Cod however, was the most valued species at NOK 3.3 billion, while herring was worth NOK 2.2 billion.

The catch in quantity has dropped in the last years, but except for 2003 the value has not. This means that the average prices have risen in the same period. A closer look at the average price for some of the species shows better prices for important species such as cod, haddock, saithe, blue whiting and deep water prawn. The average price of herring and mackerel have also increased, but dropped from 2005 till 2006.

Seventy per cent of the total quantity of the catch was used for consumption, while the rest went to production of meal and oil. For consumption, herring is the most important fish measured by quantity, while cod is the most important fish when it comes to value. Blue whiting is the most important trashfish. Most of the catch is taken with trawl and seine.

In quantity, the catch was divided equally on most of the fishing grounds, while the counties with the largest landings were Møre og Romsdal and Rogaland. When it comes to the value of the catch, the northern fishing grounds both at sea and along the coast dominate. Møre og Romsdal and Nordland were the counties with the highest value of landings. The largest sales co-operatives were Norges Sildesalgslag and Norges Råfisklag.

Over 17 000 seals and 545 whales were caught in 2006.

In 2006, foreign vessels landed 215 000 tonnes of fish and other species in Norway. This is 47 000 tonnes more than the previous year. The rise is mainly caused by larger deliverances of both pelagic fish and codfishes. The total value was close to NOK 1.9 billion. Russian vessels delivered 112 000 tonnes, mainly codfishes. United Kingdom delivered 34 000 tonnes, almost solely pelagic fish.

The world catch of fish is not changing much from one year to the next. Total production in 2006 was approximately 92 million tonnes, down one million from 2005. China is dominating with 17 million tonnes, while Norway is in 11<sup>th</sup> place with 2.3 millions. About  $\frac{3}{4}$  of the world catch is used for human consumption.

### 4.2. Statistics production

#### *Population*

The statistic cover all catches of marine fish delivered in Norway or abroad by Norwegian-registered vessels and catches of marine fish delivered in Norway by foreign vessels. Included are also sealing, whaling, catches of seaweed, oysters and mussels, while delivering outside the sales co-operatives and none-registered sales are not included. Fish farming and fishing for own use is not included either.

#### *Data sources, collection of data, control and revision*

The Directorate of Fisheries produces catch statistics based on information from approved sales co-operatives. According to law, officially approved sales co-operatives have the sole right of first hand sale of most fish species and other animals caught in the sea. Excepted from this are salmon, sea trout and seal. The sole right also applies to all sales of fish which comes directly from the sea and are sold in Norway by foreign vessels.

When landed the catch is weighted before sold. A legal document called contract note (bill) is filled in showing quantities and values of the landed fish species, type

of fishing gear, disposition of the catch, fishing ground, landing place and the register identification of the vessel. The sales co-operatives submit this information electronically to the Directorate of Fisheries for producing statistics. In addition, information is obtained from the yearly enquiry of the salmon and sea trout fisheries done by Statistics Norway and information from a few other sources. The information from the sales co-operatives also comprises Norwegian catches landed abroad.

In addition, the sales co-operatives deliver information about landings of foreign vessels. These catches are presented in separate tables.

### **Catch journals**

In some fisheries the vessel owners are obliged to keep catch journals. This concerns e.g. trawling of codfish and shrimps, and catch of small whales. From these journals the Directorate of Fisheries produces statistics.

The Directorate of Fisheries does an extensive control and revision of the data. When the control and revision is finished, the Directorate of Fisheries considers the data ready to produce final statistics. Statistics Norway receives this data as a direct output from the database of contract notes as per 1. October the year following year of the catch. Statistics Norway controls that all the data is received before producing the tables. Although the data is regarded as final for statistical purposes, the database of contract notes in the Directorate of Fisheries is constantly updated whenever needed. These late updates are non-significant and do not affect the quality of the statistics.

### **Yearbook of Fishery Statistics**

This publication from FAO (Food and Agriculture Organisation of the United Nations) gives main figures of the fisheries in all countries. The catch figures in the publication also comprise fishery for own consumption, as well as fresh water fisheries and fish farming. The Internet address is [www.fao.org](http://www.fao.org).

*Estimation* Before the data is sent to Statistics Norway, the Directorate of Fisheries converts all the different types of landed catch to live weight.

## **4.3. Concepts, variables and classifications**

*Definitions* As from 1977 the quantities are given in *live weight*. Live weight is the weight of the fish in the condition it is caught. The weight of fish that is landed without head, in gutted condition, as fillet or salted etc. is converted into live weight. Annex B shows the conversion factors.

FAO uses the concept of *nominal* catch instead of live weight. The word *catch* is also often used without further explanation. In catch journals this is interpreted as estimated quantity in live weight. For further details see FAO Yearbook of Fishery Statistics (Catch concepts: Diagrammatic presentation).

*Catch value* is the amount paid to the fishermen for the catch. This includes freight and price subsidies and production tax, but not tax to the sales co-operatives. Value added tax is not included.

*Pelagic* means living in the water masses.

### **Clarifications and concept on quotas**

Each year The Advisory Committee on Fishery Management (ACFM) gives recommendations for *total allowable catch* (TAC) of different fish species. Consultations between Norway and other countries are based upon these recommendations.

Norway and Russia are acting jointly to set *national quotas* for stocks of northeast arctic cod, northeast arctic haddock and capelin. Quotas given to a third country are taken into consideration before Norway and Russia set their own national quotas.

Norway and EU do not give quotas to a third country before consulting on mutual stocks. Quotas to a third country are a result of consultations between Norway and the third country based on Norway's quota. After all consultations a national quota is given.

*National disposable quota* is the quota Norwegian fishermen can use after all consultations and possible purchase and sales of quotas to other nations are final. This quota should be used when comparing quotas and catches for each country. For more information about agreements on quotas, see the yearly Reports to the Storting "Om de fiskeriavtalene Norge har gjort med andre land".

*Standard classifications* Standard names and grouping of species caught (target species), classification of major fishing areas and conversion factors are listed in the annexes.

#### 4.4. Sources of error and uncertainty

*Measurement and processing errors* The statistic is based on a legal document called contract notes signed by both the fishermen and the buyers as a part of the settlement. The quality of the contract notes are checked by the sales co-operatives, before submitted to the Directorate of Fisheries. These notes contain information about quantity and value together with other information used in resource management and statistics. The information on the contract notes may vary in quality, and extensive verification is a necessity.

1977 was the first year the primary data was of such a quality that it could be used as basis for catch statistics in the publication NOS Fishery Statistics, and there is still some information lacking on the contract notes. Vessels using more than one type of fishing gear on one trip, can only report one type of fishing gear on the contract note, and vessels fishing in more than one fishing ground can only report one fishing ground. This must be considered when reading the tables. This is also the explanation for possible discrepancies between catch statistics based on contract notes and those based on catch journals from trawlers. Information from catch journals can sometimes be missing due to the loss of catch journals prior to submission.

*Non-response errors* It is not possible to estimate figures for landings which have not been registered through official channels. This concerns for instance some sales of the edible crab.

There is also some non-response of catch journals due to different reasons like shipwreck, change of ownership and bankruptcy.

#### 4.5. Comparability and coherence

*Comparability over time and space* The selection of tables for this edition has been changed compared with earlier years, but the data sources are the same. As from 2005 a new grouping of target species is used, and the list of specified species is slightly changed as well as the categories for disposition of the catch.

Time series of catches in quantity and value all the way back to 1977 are published in the series NOS Fishery Statistics. Furthermore, comparable time series going back to 1866 are presented in NOS Historical Statistics 1978 and 1994, and in the Statbank. Up and to 1974 the quantity is given in fresh weigh, as from 1975 quantity is given in live weight.

Statistics Norway publishes preliminary figures of catches in quantity and value for the whole year and for the first 6 months of a year in the 6<sup>th</sup> and 35<sup>th</sup> week respectively.



In the series NOS Fishery Statistics 1996 - 2004, landings from foreign vessels in Norway were dealt with in a separate chapter (chapter 4).

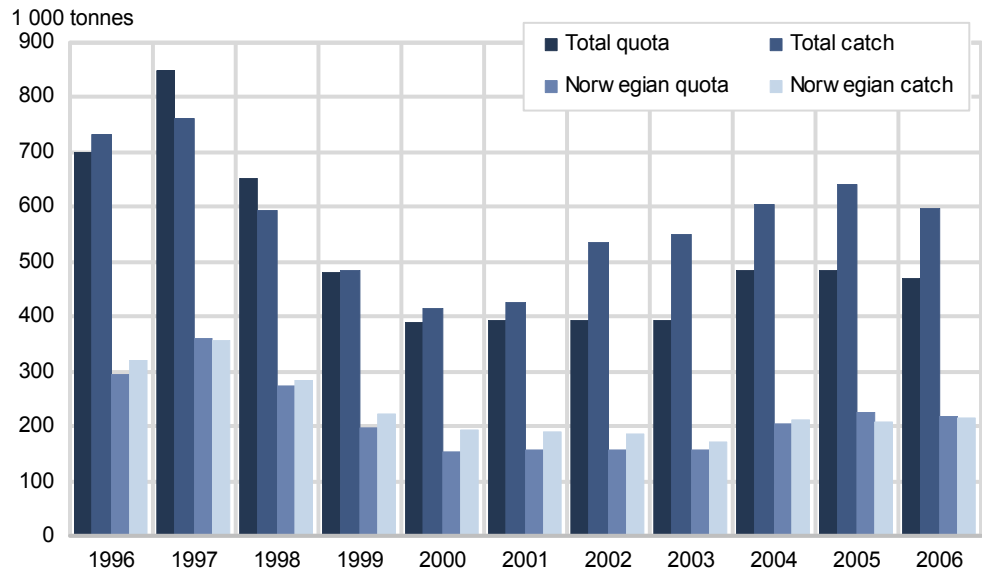
*Coherence with other statistics*

The Directorate of Fisheries publishes preliminary figures on Internet: <http://www.fiskeridir.no/fiskeridir/english>

The Directorate also submits catch statistics to several international organisations such as FAO, Eurostat, ICES, NAFO and OECD.

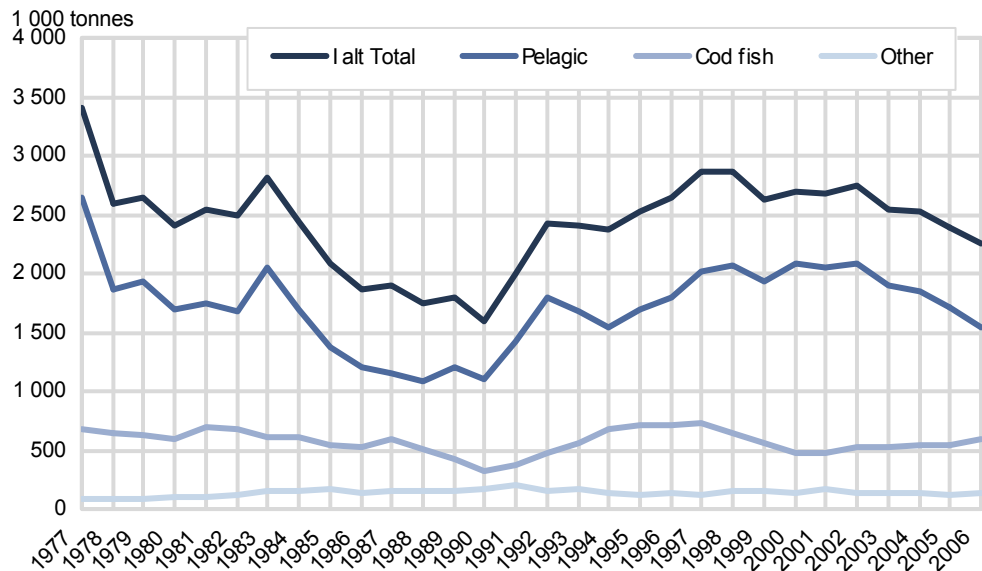
Many international organisations also publish statistics of catches in quantity and value, e.g. FAO: <http://www.fao.org>, and Eurostat: <http://ec.europa.eu/eurostat>

**Figure 8. Quotas and catches. Northeast Arctic cod. 1996-2006. 1 000 tonnes**



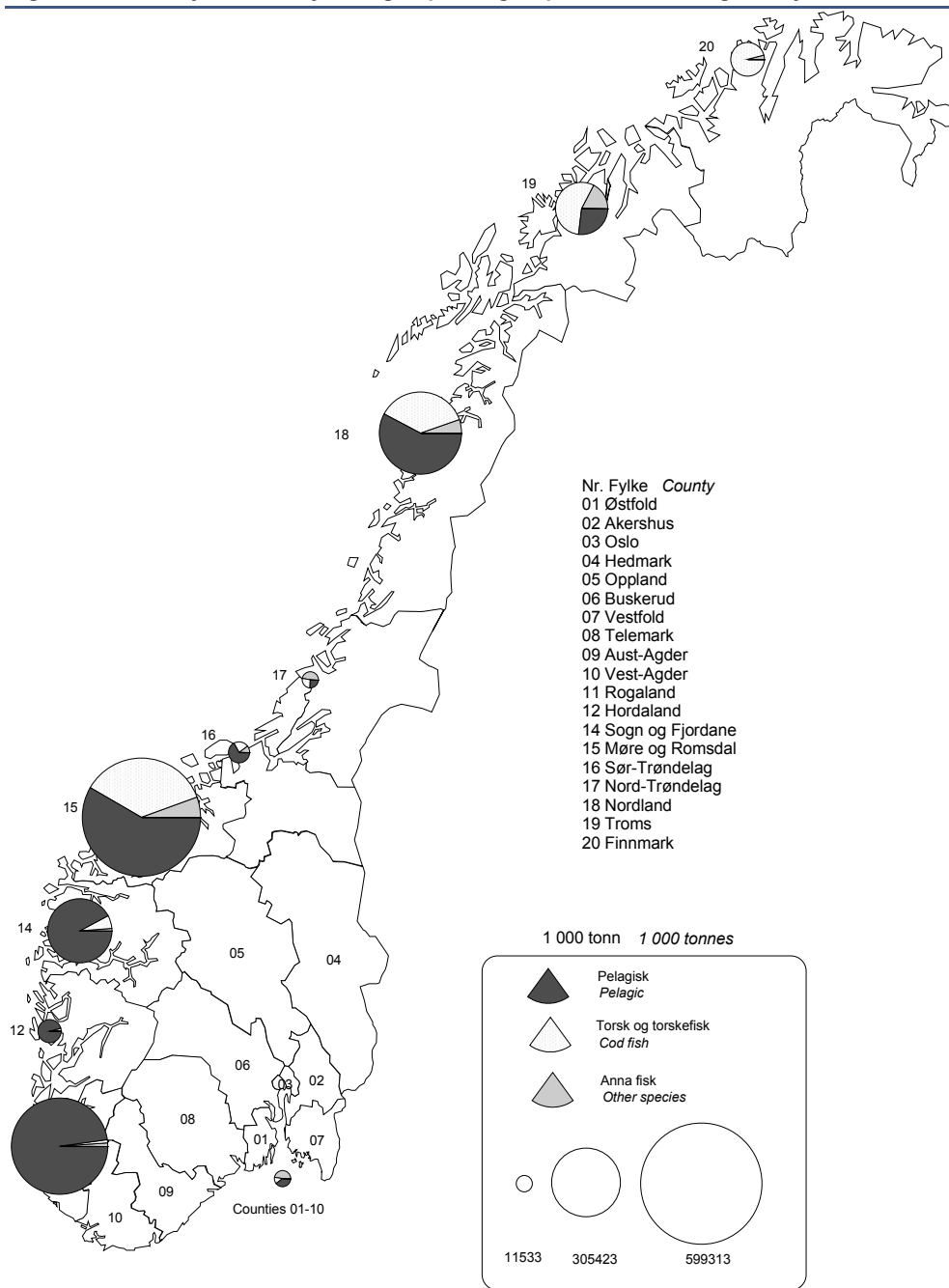
Source: The Directorate of Fisheries, Institute of Marine Research and ICES

**Figure 9. Quantity, by main group of target species. 1977-2006. 1 000 tonnes.**



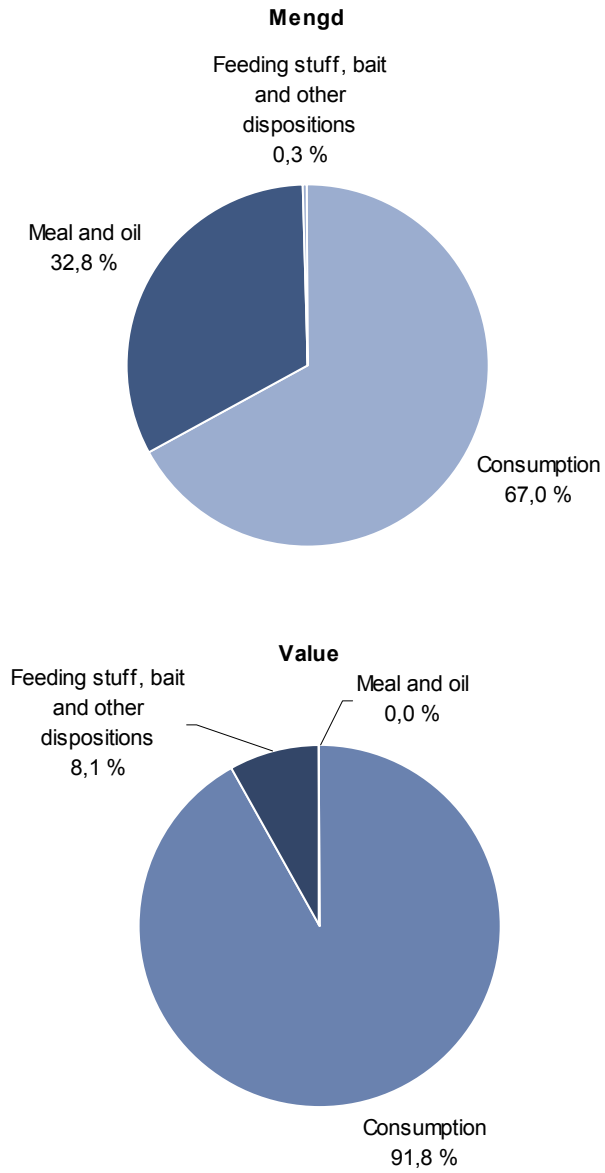
Source: The Directorate of Fisheries

Figure 10. Quantity of catch, by main group of target species and landing county. 2006. Tonnes



Source: The Directorate of Fisheries

**Figure 11 Catch quantity and value, by disposition of the catch. Per cent. 2006.**



Source: The Directorate of Fisheries

7. Quantity and value of catch, by main group<sup>1</sup> of target species. 1977-2006

| Year | Fish and crustaceans     |         |                    |           |                                      |                  |                          |              |       |
|------|--------------------------|---------|--------------------|-----------|--------------------------------------|------------------|--------------------------|--------------|-------|
|      | Total (incl. seaweed)    | Seaweed | Total Pelagic fish | Codfishes | Flatfishes and other demersal fishes | Deep-sea species | Crustaceans and molluscs | Other fishes |       |
|      | 1 000 tonnes live weight |         |                    |           |                                      |                  |                          |              |       |
| 1977 | ..                       | ..      | 3 402.4            | 2 641.3   | 685.5                                | 21.6             | 22.0                     | 29.2         | 2.9   |
| 1978 | 2 707.9                  | 121.2   | 2 586.6            | 1 864.4   | 638.9                                | 24.4             | 21.5                     | 34.8         | 2.6   |
| 1979 | 2 760.2                  | 110.0   | 2 650.2            | 1 927.1   | 635.2                                | 24.6             | 20.0                     | 38.3         | 5.1   |
| 1980 | 2 527.0                  | 126.8   | 2 400.2            | 1 703.3   | 599.1                                | 26.9             | 15.6                     | 50.1         | 5.2   |
| 1981 | 2 687.0                  | 148.4   | 2 538.6            | 1 750.7   | 690.4                                | 31.8             | 8.9                      | 53.0         | 3.8   |
| 1982 | 2 634.6                  | 149.7   | 2 484.9            | 1 685.5   | 684.9                                | 28.7             | 9.6                      | 72.1         | 4.1   |
| 1983 | 2 949.3                  | 136.7   | 2 812.6            | 2 058.2   | 603.3                                | 39.6             | 9.8                      | 98.1         | 3.6   |
| 1984 | 2 576.4                  | 136.4   | 2 440.0            | 1 687.8   | 603.3                                | 40.6             | 10.1                     | 93.9         | 4.4   |
| 1985 | 2 217.0                  | 133.3   | 2 083.7            | 1 376.3   | 544.3                                | 41.3             | 7.8                      | 108.6        | 5.4   |
| 1986 | 2 023.6                  | 159.3   | 1 864.3            | 1 203.3   | 522.0                                | 53.1             | 6.5                      | 74.4         | 5.1   |
| 1987 | 2 066.8                  | 174.1   | 1 892.7            | 1 146.7   | 589.7                                | 52.7             | 5.1                      | 92.5         | 6.1   |
| 1988 | 1 921.7                  | 172.1   | 1 749.6            | 1 094.0   | 512.3                                | 67.6             | 5.2                      | 65.2         | 5.4   |
| 1989 | 1 971.4                  | 182.7   | 1 788.7            | 1 204.7   | 432.1                                | 74.0             | 8.0                      | 63.8         | 6.0   |
| 1990 | 1 788.6                  | 197.0   | 1 591.6            | 1 100.9   | 314.5                                | 88.2             | 11.1                     | 72.8         | 4.1   |
| 1991 | 2 197.9                  | 190.6   | 2 007.3            | 1 428.7   | 381.8                                | 109.0            | 12.3                     | 57.9         | 17.6  |
| 1992 | 2 620.6                  | 189.3   | 2 429.9            | 1 796.2   | 478.7                                | 70.5             | 11.8                     | 57.5         | 15.2  |
| 1993 | 2 584.2                  | 169.6   | 2 414.6            | 1 686.2   | 558.8                                | 73.4             | 11.0                     | 61.1         | 24.1  |
| 1994 | 2 550.7                  | 185.1   | 2 365.6            | 1 547.9   | 678.8                                | 67.1             | 7.4                      | 48.3         | 16.0  |
| 1995 | 2 708.7                  | 185.0   | 2 523.7            | 1 696.7   | 705.8                                | 59.8             | 5.0                      | 49.1         | 7.3   |
| 1996 | 2 822.3                  | 173.2   | 2 649.1            | 1 802.0   | 719.6                                | 70.2             | 5.6                      | 43.7         | 8.1   |
| 1997 | 3 048.1                  | 191.7   | 2 856.4            | 2 017.8   | 723.8                                | 66.0             | 3.3                      | 44.7         | 6.9   |
| 1998 | 3 040.5                  | 179.8   | 2 860.7            | 2 072.2   | 642.3                                | 74.2             | 2.2                      | 60.9         | 9.0   |
| 1999 | 2 808.5                  | 178.5   | 2 630.0            | 1 927.0   | 554.9                                | 73.8             | 2.4                      | 67.6         | 4.3   |
| 2000 | 2 891.2                  | 192.4   | 2 698.8            | 2 078.9   | 478.7                                | 62.7             | 2.9                      | 70.7         | 5.0   |
| 2001 | 2 861.4                  | 175.2   | 2 686.3            | 2 053.5   | 467.4                                | 87.8             | 2.9                      | 70.2         | 4.5   |
| 2002 | 2 922.4                  | 182.6   | 2 739.8            | 2 079.5   | 525.0                                | 55.2             | 1.9                      | 74.9         | 3.4   |
| 2003 | 2 701.2                  | 153.2   | 2 548.0            | 1 893.2   | 521.5                                | 56.9             | 2.1                      | 72.2         | 2.6   |
| 2004 | 2 671.3                  | 148.3   | 2 523.0            | 1 848.9   | 537.0                                | 66.2             | 1.8                      | 66.6         | 2.5   |
| 2005 | 2 545.8                  | 153.9   | 2 391.9            | 1 718.5   | 550.3                                | 63.0             | 1.7                      | 56.4         | 2.0   |
| 2006 | 2 401.7                  | 145.4   | 2 256.3            | 1 536.0   | 585.3                                | 73.5             | 1.9                      | 57.2         | 2.4   |
|      | NOK million              |         |                    |           |                                      |                  |                          |              |       |
| 1977 | ..                       | ..      | 3 073.2            | 1 121.8   | 1 614.1                              | 54.4             | 32.9                     | 204.1        | 46.0  |
| 1978 | 2 920.0                  | 12.1    | 2 907.9            | 934.2     | 1 585.5                              | 60.7             | 33.5                     | 260.9        | 33.1  |
| 1979 | 3 142.3                  | 9.9     | 3 132.4            | 945.7     | 1 716.4                              | 73.9             | 33.2                     | 297.4        | 65.7  |
| 1980 | 3 512.9                  | 11.6    | 3 501.3            | 1 010.9   | 1 896.0                              | 82.0             | 30.3                     | 398.8        | 83.3  |
| 1981 | 4 009.6                  | 14.6    | 3 995.0            | 1 062.2   | 2 362.7                              | 83.1             | 20.3                     | 402.0        | 64.7  |
| 1982 | 3 982.1                  | 17.9    | 3 964.2            | 1 054.2   | 2 264.5                              | 76.0             | 20.2                     | 493.2        | 56.1  |
| 1983 | 4 280.2                  | 16.5    | 4 263.7            | 1 309.1   | 2 017.8                              | 113.7            | 24.8                     | 746.3        | 52.0  |
| 1984 | 4 355.7                  | 16.5    | 4 339.3            | 1 259.6   | 2 062.8                              | 145.4            | 25.2                     | 781.2        | 65.1  |
| 1985 | 4 570.9                  | 17.9    | 4 553.0            | 1 122.0   | 2 265.7                              | 165.3            | 22.2                     | 902.4        | 75.4  |
| 1986 | 5 173.8                  | 23.2    | 5 150.6            | 1 030.5   | 2 854.8                              | 224.6            | 18.0                     | 944.2        | 78.5  |
| 1987 | 5 844.8                  | 25.0    | 5 819.7            | 1 014.5   | 3 560.5                              | 231.8            | 14.9                     | 925.9        | 72.0  |
| 1988 | 5 057.1                  | 24.6    | 5 032.5            | 1 130.2   | 2 748.2                              | 278.3            | 16.9                     | 791.8        | 67.1  |
| 1989 | 4 803.8                  | 26.8    | 4 777.0            | 1 269.9   | 2 297.4                              | 291.0            | 28.3                     | 842.7        | 47.6  |
| 1990 | 5 005.5                  | 29.0    | 4 976.5            | 1 246.6   | 2 075.3                              | 595.1            | 47.4                     | 960.7        | 51.4  |
| 1991 | 5 996.5                  | 28.6    | 5 967.9            | 1 494.2   | 2 834.3                              | 671.7            | 53.2                     | 742.1        | 172.4 |
| 1992 | 6 141.5                  | 29.8    | 6 111.7            | 1 518.4   | 3 134.4                              | 429.0            | 43.4                     | 704.2        | 282.3 |
| 1993 | 6 296.5                  | 27.0    | 6 269.5            | 1 646.8   | 3 194.4                              | 525.4            | 37.5                     | 680.2        | 176.4 |
| 1994 | 7 504.9                  | 34.8    | 7 470.1            | 1 867.1   | 4 202.5                              | 513.8            | 30.8                     | 706.4        | 149.5 |
| 1995 | 8 247.3                  | 29.2    | 8 218.2            | 2 251.0   | 4 504.2                              | 508.8            | 24.0                     | 844.6        | 85.5  |
| 1996 | 8 745.8                  | 27.5    | 8 718.2            | 3 124.4   | 4 178.9                              | 625.1            | 20.3                     | 678.6        | 90.9  |
| 1997 | 9 196.7                  | 30.7    | 9 166.0            | 3 468.8   | 4 442.2                              | 563.9            | 13.2                     | 661.1        | 80.7  |
| 1998 | 10 551.1                 | 28.9    | 10 522.1           | 3 291.0   | 5 633.5                              | 641.8            | 11.8                     | 868.1        | 76.0  |
| 1999 | 9 975.9                  | 28.4    | 9 947.5            | 2 819.4   | 5 385.4                              | 711.6            | 14.1                     | 975.2        | 41.8  |
| 2000 | 9 771.5                  | 35.7    | 9 735.8            | 3 229.2   | 4 649.1                              | 700.1            | 16.2                     | 1 118.4      | 22.9  |
| 2001 | 11 470.4                 | 32.5    | 11 437.9           | 4 755.0   | 4 797.1                              | 855.7            | 17.5                     | 973.8        | 38.8  |
| 2002 | 11 197.3                 | 33.4    | 11 164.0           | 4 889.0   | 4 759.7                              | 527.7            | 11.3                     | 940.3        | 36.0  |
| 2003 | 8 910.3                  | 28.0    | 8 882.3            | 3 487.2   | 3 848.1                              | 565.1            | 12.0                     | 943.0        | 27.7  |
| 2004 | 10 414.7                 | 27.9    | 10 386.8           | 4 250.2   | 4 372.7                              | 727.1            | 11.3                     | 991.6        | 33.8  |
| 2005 | 11 685.6                 | 29.9    | 11 655.7           | 5 122.2   | 4 920.0                              | 736.2            | 10.5                     | 835.6        | 31.2  |
| 2006 | 11 703.5                 | 28.5    | 11 675.0           | 4 163.6   | 5 886.5                              | 804.4            | 10.7                     | 767.1        | 42.7  |

<sup>1</sup> See appendix A.

Source: The Directorate of Fisheries.

8. Total catch<sup>1</sup>, by disposition of the catch. 1977-2006

| Year | Total   | 1 000 tonnes live weight |              |                         |
|------|---------|--------------------------|--------------|-------------------------|
|      |         | Consumption              | Meal and oil | Feeding stuff, bait etc |
| 1977 | 3 402.5 | 786.1                    | 2 549.2      | 67.1                    |
| 1978 | 2 586.6 | 744.1                    | 1 768.1      | 74.4                    |
| 1979 | 2 650.2 | 751.4                    | 1 805.2      | 93.6                    |
| 1980 | 2 400.2 | 726.3                    | 1 500.4      | 173.5                   |
| 1981 | 2 538.6 | 820.0                    | 1 601.0      | 117.6                   |
| 1982 | 2 484.9 | 876.0                    | 1 493.7      | 115.2                   |
| 1983 | 2 812.6 | 873.7                    | 1 840.3      | 98.7                    |
| 1984 | 2 440.0 | 875.0                    | 1 478.7      | 86.3                    |
| 1985 | 2 083.7 | 854.3                    | 1 161.9      | 67.4                    |
| 1986 | 1 864.3 | 882.0                    | 917.9        | 64.3                    |
| 1987 | 1 892.7 | 1 017.7                  | 829.7        | 45.3                    |
| 1988 | 1 749.6 | 913.6                    | 798.1        | 37.9                    |
| 1989 | 1 788.7 | 837.9                    | 916.9        | 33.8                    |
| 1990 | 1 591.6 | 808.3                    | 750.1        | 33.2                    |
| 1991 | 2 007.3 | 937.6                    | 1 046.4      | 23.4                    |
| 1992 | 2 429.9 | 993.2                    | 1 413.7      | 23.1                    |
| 1993 | 2 414.6 | 1 204.4                  | 1 203.2      | 6.9                     |
| 1994 | 2 365.6 | 1 475.1                  | 887.3        | 3.2                     |
| 1995 | 2 523.7 | 1 566.3                  | 937.6        | 19.8                    |
| 1996 | 2 649.1 | 1 676.6                  | 958.4        | 14.1                    |
| 1997 | 2 862.6 | 1 761.8                  | 1 097.4      | 3.5                     |
| 1998 | 2 860.7 | 1 552.5                  | 1 306.4      | 1.8                     |
| 1999 | 2 630.0 | 1 610.8                  | 1 017.9      | 1.3                     |
| 2000 | 2 698.8 | 1 594.6                  | 1 101.8      | 2.4                     |
| 2001 | 2 686.4 | 1 543.8                  | 1 140.7      | 1.8                     |
| 2002 | 2 739.8 | 1 549.9                  | 1 187.3      | 2.7                     |
| 2003 | 2 548.5 | 1 436.6                  | 1 110.5      | 1.4                     |
| 2004 | 2 523.0 | 1 453.9                  | 1 065.0      | 4.0                     |
| 2005 | 2 391.9 | 1 621.2                  | 767.9        | 2.9                     |
| 2006 | 2 256.3 | 1 510.9                  | 739.1        | 6.3                     |
|      |         | Per cent                 |              |                         |
| 1977 | 100     | 23.1                     | 74.9         | 2.0                     |
| 1978 | 100     | 28.8                     | 68.4         | 2.9                     |
| 1979 | 100     | 28.4                     | 68.1         | 3.5                     |
| 1980 | 100     | 30.3                     | 62.5         | 7.2                     |
| 1981 | 100     | 32.3                     | 63.1         | 4.6                     |
| 1982 | 100     | 35.3                     | 60.1         | 4.6                     |
| 1983 | 100     | 31.1                     | 65.4         | 3.5                     |
| 1984 | 100     | 35.9                     | 60.6         | 3.5                     |
| 1985 | 100     | 41.0                     | 55.8         | 3.2                     |
| 1986 | 100     | 47.3                     | 49.2         | 3.5                     |
| 1987 | 100     | 53.8                     | 43.8         | 2.4                     |
| 1988 | 100     | 52.2                     | 45.6         | 2.2                     |
| 1989 | 100     | 46.8                     | 51.3         | 1.9                     |
| 1990 | 100     | 50.8                     | 47.1         | 2.1                     |
| 1991 | 100     | 46.7                     | 52.1         | 1.2                     |
| 1992 | 100     | 40.9                     | 58.2         | 0.9                     |
| 1993 | 100     | 49.9                     | 49.8         | 0.3                     |
| 1994 | 100     | 62.4                     | 37.5         | 0.1                     |
| 1995 | 100     | 62.1                     | 37.2         | 0.8                     |
| 1996 | 100     | 63.3                     | 36.2         | 0.5                     |
| 1997 | 100     | 61.5                     | 38.3         | 0.1                     |
| 1998 | 100     | 54.3                     | 45.7         | 0.1                     |
| 1999 | 100     | 61.2                     | 38.7         | 0.0                     |
| 2000 | 100     | 59.1                     | 40.8         | 0.1                     |
| 2001 | 100     | 57.5                     | 42.5         | 0.1                     |
| 2002 | 100     | 56.6                     | 43.3         | 0.1                     |
| 2003 | 100     | 56.4                     | 43.6         | 0.1                     |
| 2004 | 100     | 57.6                     | 42.2         | 0.2                     |
| 2005 | 100     | 67.8                     | 32.1         | 0.1                     |
| 2006 | 100     | 67.0                     | 32.8         | 0.3                     |

<sup>1</sup> Seaweed is not included.

Source: The Directorate of Fisheries.

9. Average price<sup>1</sup> for first hand sales of fish. 1998-2006

| Target species                        | 1998        | 1999        | 2000        | 2001        | 2002        | 2003        | 2004        | 2005        | 2006        |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                       | NOK per kg  |             |             |             |             |             |             |             |             |
| <b>All species</b> .....              | <b>3.68</b> | <b>3.78</b> | <b>3.61</b> | <b>4.26</b> | <b>4.07</b> | <b>3.49</b> | <b>4.12</b> | <b>4.87</b> | <b>5.17</b> |
| Capelin .....                         | 0.88        | 2.08        | 0.96        | 1.11        | 1.23        | 1.05        | 0.95        | 1.38        | 1.98        |
| Norway pout .....                     | 0.89        | 0.55        | 0.59        | 0.69        | 0.89        | 0.77        | 0.80        | 0.97        | 1.40        |
| Blue whiting .....                    | 0.86        | 0.54        | 0.59        | 0.70        | 0.99        | 0.85        | 0.80        | 0.72        | 1.20        |
| Sandeel .....                         | 0.90        | 0.55        | 0.61        | 0.78        | 0.92        | 0.80        | 0.90        | 0.80        | 1.21        |
| Horse mackerel .....                  | 2.06        | 2.29        | 2.33        | 5.68        | 2.66        | 1.99        | 3.75        | 4.43        | 4.24        |
| Atlantic Mackerel .....               | 5.31        | 5.37        | 5.65        | 7.41        | 7.39        | 6.16        | 8.44        | 12.49       | 8.00        |
| Herring .....                         | 1.76        | 1.45        | 1.79        | 3.86        | 3.55        | 2.50        | 3.27        | 3.83        | 3.16        |
| Sprat .....                           | 1.63        | 1.45        | 3.20        | 1.88        | 4.58        | 4.75        | 4.42        | 4.74        | 1.92        |
| Pelagic fish nei .....                | ..          | ..          | ..          | ..          | ..          | ..          | ..          | ..          | ..          |
| Cod .....                             | 10.47       | 12.96       | 13.38       | 13.90       | 12.57       | 10.76       | 12.06       | 13.22       | 14.93       |
| Haddock .....                         | 9.12        | 11.10       | 11.62       | 11.94       | 10.01       | 6.96        | 7.01        | 8.29        | 10.88       |
| Saithe .....                          | 5.41        | 5.10        | 4.36        | 4.85        | 4.61        | 3.78        | 3.96        | 4.78        | 5.43        |
| Tusk .....                            | 8.85        | 8.22        | 8.14        | 9.48        | 8.50        | 7.27        | 6.97        | 7.45        | 8.52        |
| Ling .....                            | 11.88       | 11.68       | 12.88       | 16.43       | 13.22       | 10.81       | 12.21       | 11.93       | 13.48       |
| Blue ling .....                       | 6.94        | 6.96        | 8.10        | 10.78       | 8.58        | 7.06        | 6.28        | 5.87        | 7.33        |
| Pollack .....                         | 6.49        | 7.49        | 7.46        | 8.01        | 7.65        | 7.51        | 8.31        | 8.78        | 10.03       |
| Hake .....                            | 23.96       | 24.35       | 22.05       | 23.47       | 20.57       | 20.02       | 20.67       | 20.14       | 24.09       |
| Whiting .....                         | 5.22        | 5.24        | 6.20        | 5.86        | 5.87        | 5.70        | 6.04        | 6.02        | 5.54        |
| Greenland halibut .....               | 15.72       | 14.46       | 18.17       | 17.23       | 13.88       | 15.84       | 18.37       | 20.57       | 21.16       |
| Halibut .....                         | 30.63       | 33.30       | 42.12       | 41.68       | 39.33       | 40.85       | 41.16       | 38.73       | 41.64       |
| Plaice .....                          | 11.12       | 11.63       | 10.94       | 11.96       | 11.33       | 13.10       | 12.55       | 12.99       | 13.72       |
| Common sole .....                     | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 73.98       | 84.70       |
| Witch .....                           | 10.44       | 11.03       | 11.06       | 14.00       | 15.20       | 17.44       | 15.57       | 16.86       | 19.14       |
| Common dab .....                      | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 7.23        | 7.78        |
| Lemon dab .....                       | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 17.97       | 20.46       |
| Brill .....                           | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 43.48       | 52.60       |
| Turbot .....                          | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 68.39       | 72.82       |
| Other flatfish .....                  | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 34.60       | 10.39       |
| Eel .....                             | 48.03       | 45.60       | 38.59       | 44.77       | 36.34       | 33.88       | 42.78       | 44.96       | 45.18       |
| Redfish .....                         | 6.88        | 6.52        | 7.13        | 7.04        | 6.72        | 6.03        | 6.87        | 9.62        | 9.30        |
| Lesser and greater argentines ..      | 3.86        | 3.07        | 3.02        | 4.19        | 3.27        | 3.07        | 2.75        | 2.63        | 2.52        |
| Catfish .....                         | 5.04        | 4.68        | 4.28        | 4.24        | 4.67        | 4.84        | 4.53        | 5.27        | 6.92        |
| Angler .....                          | 20.51       | 23.32       | 27.79       | 29.05       | 26.51       | 23.03       | 22.74       | 23.64       | 24.47       |
| Lumpsucker .....                      | 5.16        | 4.63        | 4.02        | 4.27        | 4.52        | 5.31        | 5.96        | 4.88        | 3.96        |
| Groundfishes nei .....                | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 11.20       | 4.41        |
| Picked dogfish .....                  | 6.10        | 6.76        | 7.29        | 7.55        | 7.32        | 7.53        | 8.18        | 7.81        | 8.03        |
| Porbeagle .....                       | 21.68       | 22.79       | 18.82       | 22.56       | 21.32       | 24.11       | 20.48       | 16.41       | 11.80       |
| Basking shark .....                   | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 1.47        | 1.37        |
| Sharks nei .....                      | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 5.56        | 5.72        |
| Skate, ray .....                      | 4.08        | 4.14        | 3.21        | 3.35        | 3.81        | 4.61        | 4.00        | 5.06        | 7.24        |
| Deep-sea species nei .....            | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 2.94        | 1.35        |
| Atlantic salmon .....                 | ..          | ..          | ..          | ..          | ..          | ..          | ..          | ..          | ..          |
| Species not else-where included ..... | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 20.62       | 23.36       |
| Crab .....                            | 7.48        | 9.79        | 14.10       | 15.64       | 13.74       | 16.96       | 18.53       | 7.84        | 8.01        |
| King crab .....                       | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 56.37       | 48.92       |
| Lobster .....                         | 142.53      | 160.85      | 178.60      | 198.25      | 192.62      | 178.56      | 172.92      | 186.74      | 191.54      |
| Norway lobster .....                  | 53.22       | 62.59       | 64.77       | 69.22       | 69.27       | 67.07       | 66.52       | 71.63       | 80.15       |
| Deep water prawn .....                | 14.34       | 14.21       | 15.51       | 13.36       | 12.07       | 12.33       | 14.10       | 14.05       | 15.95       |
| Mussels .....                         | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 19.86       | 20.61       |
| Crustaceans and molluscs nei ..       | ..          | ..          | ..          | ..          | ..          | ..          | ..          | 5.24        | 0.43        |

<sup>1</sup> Refer to average price for the whole country. The prices will vary between districts and disposition of the catch.

Source: The Directorate of Fisheries and Statistics Norway.

**10. Catch, by fishing gear and target species. 2006. Tonnes live weight**

| Target species                       | Total            | Seine          | Gillnet        | Hand line     | Long line Danish seine | Trawl         | Other            |               |
|--------------------------------------|------------------|----------------|----------------|---------------|------------------------|---------------|------------------|---------------|
| <b>Total</b> .....                   | <b>2 256 348</b> | <b>863 560</b> | <b>119 924</b> | <b>21 463</b> | <b>109 658</b>         | <b>56 128</b> | <b>1 066 232</b> | <b>19 383</b> |
| Capelin .....                        | 2 047            | 2 047          | -              | -             | -                      | -             | -                | -             |
| Norway pout .....                    | 14 336           | 18             | -              | -             | -                      | -             | 14 319           | -             |
| Blue whiting .....                   | 642 452          | 1 198          | 74             | -             | -                      | -             | 641 179          | -             |
| Sandeel .....                        | 5 815            | 0              | -              | -             | -                      | -             | 5 814            | -             |
| Horse mackerel .....                 | 27 224           | 26 624         | -              | -             | -                      | -             | 600              | -             |
| Mackerel .....                       | 122 011          | 107 251        | 101            | 0             | 1                      | -             | 4 675            | 9 983         |
| Herring .....                        | 710 591          | 638 540        | 24             | -             | -                      | -             | 72 025           | 2             |
| Sprat .....                          | 11 470           | 11 467         | 3              | -             | -                      | -             | -                | -             |
| Pelagic fish nei .....               | 57               | 21             | -              | -             | -                      | -             | 35               | -             |
| Cod .....                            | 221 294          | 176            | 61 967         | 11 174        | 40 998                 | 36 736        | 70 090           | 153           |
| Haddock .....                        | 71 408           | 28             | 3 310          | 168           | 25 862                 | 8 432         | 33 592           | 18            |
| Saithe .....                         | 256 841          | 75 876         | 33 172         | 9 544         | 4 079                  | 9 573         | 124 561          | 35            |
| Tusk .....                           | 14 346           | 0              | 908            | 69            | 13 165                 | 10            | 121              | 72            |
| Ling .....                           | 16 828           | 13             | 4 074          | 34            | 11 809                 | 41            | 844              | 13            |
| Blue ling .....                      | 367              | -              | 184            | 0             | 155                    | 0             | 28               | 0             |
| Pollack .....                        | 3 021            | 1              | 2 411          | 178           | 63                     | 51            | 305              | 12            |
| Hake .....                           | 1 179            | 3              | 832            | 2             | 3                      | 86            | 252              | 1             |
| Whiting .....                        | 58               | 0              | 6              | 1             | 18                     | 2             | 31               | 0             |
| Greenland halibut .....              | 13 336           | -              | 1 635          | 10            | 5 609                  | 205           | 5 878            | 0             |
| Halibut .....                        | 1 374            | 1              | 570            | 34            | 626                    | 38            | 103              | 2             |
| Plaice .....                         | 2 619            | 1              | 212            | 5             | 11                     | 658           | 1 732            | 0             |
| Common sole .....                    | 45               | 0              | 9              | 0             | -                      | 0             | 36               | 0             |
| Witch .....                          | 69               | 0              | 7              | 0             | -                      | 1             | 61               | 0             |
| Common dab .....                     | 125              | -              | 1              | -             | -                      | -             | 124              | 0             |
| Lemon dab .....                      | 67               | 0              | 17             | 0             | 1                      | 35            | 15               | 0             |
| Brill .....                          | 28               | 0              | 13             | 0             | -                      | 1             | 14               | 0             |
| Turbot .....                         | 55               | 0              | 14             | 0             | 0                      | 4             | 36               | 0             |
| Other flatfish .....                 | 77               | -              | 16             | 0             | 0                      | 6             | 55               | 0             |
| Eel .....                            | 293              | -              | -              | -             | -                      | -             | -                | 293           |
| Redfish .....                        | 17 150           | 0              | 1 998          | 181           | 1 428                  | 122           | 13 416           | 3             |
| Lesser and greater argentines .      | 25 149           | 1              | 376            | -             | -                      | 0             | 24 772           | -             |
| Catfish .....                        | 5 404            | 0              | 55             | 10            | 4 480                  | 42            | 816              | 1             |
| Angler .....                         | 5 422            | 1              | 4 807          | 35            | 89                     | 75            | 402              | 13            |
| Lumpsucker .....                     | 2 304            | -              | 2 285          | 10            | 8                      | -             | 0                | 1             |
| Groundfishes nei .....               | 2                | -              | -              | -             | -                      | -             | 2                | -             |
| Picked dogfish .....                 | 790              | 0              | 624            | 4             | 93                     | 2             | 66               | 0             |
| Porbeagle .....                      | 27               | 0              | 26             | -             | 1                      | 0             | 0                | 0             |
| Basking shark .....                  | 16               | -              | 16             | -             | -                      | -             | -                | -             |
| Sharks nei .....                     | 1                | -              | 0              | -             | 0                      | -             | 0                | -             |
| Skate, ray .....                     | 426              | 0              | 144            | 3             | 234                    | 6             | 38               | 1             |
| Deep-sea species nei .....           | 689              | -              | 5              | -             | 59                     | -             | 625              | -             |
| Atlantic salmon .....                | 525              | 0              | 2              | 0             | -                      | 0             | 0                | 523           |
| Species not elsewhere included ..... | 1 836            | 289            | 25             | 0             | 867                    | 1             | 610              | 44            |
| Crab .....                           | 6 205            | -              | -              | -             | -                      | -             | -                | 6 205         |
| King crab .....                      | 1 041            | -              | -              | -             | -                      | -             | -                | 1 041         |
| Lobster .....                        | 62               | -              | -              | -             | -                      | -             | -                | 62            |
| Norway lobster .....                 | 206              | -              | -              | -             | -                      | -             | 160              | 45            |
| Deep water prawn .....               | 38 709           | -              | -              | -             | -                      | -             | 38 709           | -             |
| Mussels .....                        | 808              | -              | -              | -             | -                      | -             | -                | 808           |
| Crustaceans and molluscs nei .       | 10 142           | 3              | 0              | 0             | -                      | 0             | 10 086           | 53            |

Source: The Directorate of Fisheries.

## 11. Quantity and value of catch, by disposition and target species. 2006

| Target species                       | Total            |                   | Consumption      |                   | Meal and oil   |                | Feeding stuff, bait etc |              |
|--------------------------------------|------------------|-------------------|------------------|-------------------|----------------|----------------|-------------------------|--------------|
|                                      | Quantity         | Value             | Quantity         | Value             | Quantity       | Value          | Quantity                | Value        |
| Target species                       | Tonnes           | NOK 1 000         | Tonnes           | NOK 1 000         | Tonnes         | NOK 1 000      | Tonnes                  | NOK 1 000    |
| <b>Total</b> .....                   | <b>2 256 348</b> | <b>11 675 059</b> | <b>1 510 934</b> | <b>10 721 075</b> | <b>739 102</b> | <b>949 958</b> | <b>6 313</b>            | <b>4 026</b> |
| Capelin .....                        | 2 047            | 4 050             | 1 429            | 3 580             | 618            | 470            | -                       | -            |
| Norway pout .....                    | 14 336           | 20 033            | 18               | 1                 | 14 319         | 20 032         | -                       | -            |
| Blue whiting .....                   | 642 452          | 773 253           | 3 538            | 565               | 635 347        | 772 650        | 3 567                   | 39           |
| Sandeel .....                        | 5 815            | 7 058             | 0                | 0                 | 5 814          | 7 058          | -                       | -            |
| Horse mackerel .....                 | 27 224           | 115 341           | 26 445           | 113 800           | 779            | 1 540          | -                       | -            |
| Mackerel .....                       | 122 011          | 975 894           | 120 566          | 973 769           | 665            | 1 207          | 779                     | 919          |
| Herring .....                        | 710 591          | 2 245 883         | 657 479          | 2 136 497         | 52 910         | 108 838        | 202                     | 547          |
| Sprat .....                          | 11 470           | 22 014            | 1 664            | 8 083             | 9 807          | 13 931         | -                       | -            |
| Pelagic fish nei .....               | 57               | 38                | 22               | 0                 | 35             | 38             | -                       | -            |
| Cod .....                            | 221 294          | 3 305 180         | 221 267          | 3 304 866         | 3              | 4              | 25                      | 311          |
| Haddock .....                        | 71 408           | 775 532           | 71 384           | 775 513           | 11             | 15             | 14                      | 5            |
| Saithe .....                         | 256 841          | 1 394 917         | 253 289          | 1 389 753         | 3 034          | 4 465          | 518                     | 699          |
| Tusk .....                           | 14 346           | 122 275           | 14 346           | 122 275           | -              | -              | 0                       | 0            |
| Ling .....                           | 16 828           | 226 903           | 16 826           | 226 887           | -              | -              | 2                       | 16           |
| Blue ling .....                      | 367              | 2 693             | 367              | 2 692             | -              | -              | 0                       | 0            |
| Pollack .....                        | 3 021            | 30 316            | 3 021            | 30 316            | -              | -              | 0                       | 0            |
| Hake .....                           | 1 179            | 28 403            | 1 179            | 28 401            | -              | -              | 1                       | 3            |
| Whiting .....                        | 58               | 323               | 58               | 323               | -              | -              | 0                       | 0            |
| Greenland halibut .....              | 13 336           | 282 248           | 13 335           | 282 197           | -              | -              | 1                       | 52           |
| Halibut .....                        | 1 374            | 57 213            | 1 374            | 57 213            | -              | -              | 0                       | 0            |
| Plaice .....                         | 2 619            | 35 935            | 2 619            | 35 935            | -              | -              | 0                       | 0            |
| Common sole .....                    | 45               | 3 837             | 45               | 3 837             | -              | -              | -                       | -            |
| Witch .....                          | 69               | 1 321             | 69               | 1 321             | -              | -              | -                       | -            |
| Common dab .....                     | 125              | 972               | 125              | 972               | -              | -              | -                       | -            |
| Lemon dab .....                      | 67               | 1 379             | 67               | 1 379             | -              | -              | 0                       | 0            |
| [Brill] .....                        | 28               | 1 478             | 28               | 1 478             | -              | -              | -                       | -            |
| Turbot .....                         | 55               | 3 976             | 55               | 3 975             | -              | -              | 0                       | 1            |
| Other flatfish .....                 | 77               | 800               | 75               | 785               | -              | -              | 2                       | 14           |
| Eel .....                            | 293              | 13 249            | 293              | 13 249            | -              | -              | -                       | -            |
| Redfish .....                        | 17 150           | 159 500           | 16 236           | 159 495           | -              | -              | 914                     | 5            |
| Lesser and greater argentines .      | 25 149           | 63 262            | 20 400           | 57 105            | 4 644          | 6 150          | 106                     | 7            |
| Catfish .....                        | 5 404            | 37 372            | 5 316            | 37 360            | -              | -              | 88                      | 12           |
| Angler .....                         | 5 422            | 132 689           | 5 417            | 132 680           | -              | -              | 5                       | 9            |
| Lumpsucker .....                     | 2 304            | 9 121             | 2 304            | 9 121             | -              | -              | -                       | -            |
| Groundfishes nei .....               | 2                | 11                | 2                | 11                | -              | -              | 0                       | 0            |
| Picked dogfish .....                 | 790              | 6 343             | 790              | 6 343             | -              | -              | 0                       | 0            |
| Porbeagle .....                      | 27               | 324               | 27               | 324               | -              | -              | 0                       | 0            |
| Basking shark .....                  | 16               | 22                | 16               | 22                | -              | -              | -                       | -            |
| Sharks nei .....                     | 1                | 5                 | 1                | 5                 | -              | -              | 0                       | 0            |
| Skate, ray .....                     | 426              | 3 085             | 420              | 3 084             | 0              | 1              | 6                       | 0            |
| Deep-sea species nei .....           | 689              | 930               | 65               | 139               | 625            | 791            | 0                       | 0            |
| Atlantic salmon .....                | 525              | 0                 | 525              | 0                 | -              | -              | -                       | -            |
| Species not elsewhere included ..... | 1 836            | 42 742            | 1 305            | 32 710            | 510            | 9 757          | 20                      | 275          |
| Crab .....                           | 6 205            | 49 699            | 6 204            | 49 696            | -              | -              | 1                       | 3            |
| King crab .....                      | 1 041            | 50 936            | 1 041            | 50 936            | -              | -              | -                       | -            |
| Lobster .....                        | 62               | 11 780            | 62               | 11 780            | -              | -              | -                       | -            |
| Norway lobster .....                 | 206              | 16 510            | 206              | 16 510            | -              | -              | 0                       | 0            |
| Deep water prawn .....               | 38 709           | 617 240           | 38 646           | 616 131           | -              | -              | 63                      | 1 109        |
| Mussels .....                        | 808              | 16 655            | 808              | 16 655            | -              | -              | -                       | -            |
| Crustaceans and molluscs nei .       | 10 142           | 4 319             | 161              | 1 309             | 9 981          | 3 011          | -                       | -            |

Source: The Directorate of Fisheries.



**12. Quantity and value of catch, by main group of target species and fishing ground. 2006**

| Fishing ground                                   | Total             | Pelagic fish     | Codfishes        | Flatfishes and other demersal fishes | Deep-sea species | Crustaceans and molluscs | Other         |
|--|-------------------|------------------|------------------|--------------------------------------|------------------|--------------------------|---------------|
| Tonnes   |                   |                  |                  |                                      |                  |                          |               |
| <b>Total</b> .....                               | <b>2 256 348</b>  | <b>1 536 002</b> | <b>585 343</b>   | <b>73 521</b>                        | <b>1 949</b>     | <b>57 172</b>            | <b>2 361</b>  |
| <b>Offshore fishing, total<sup>1</sup></b> ..... | <b>1 729 964</b>  | <b>1 291 307</b> | <b>334 370</b>   | <b>58 560</b>                        | <b>954</b>       | <b>43 134</b>            | <b>1 639</b>  |
| The Norwegian Sea/Barents                        |                   |                  |                  |                                      |                  |                          |               |
| Sea/Svalbard .....                               | 692 720           | 361 450          | 259 825          | 44 084                               | 110              | 26 917                   | 334           |
| The North Sea/Skagerrak .....                    | 475 332           | 397 849          | 67 098           | 5 929                                | 702              | 3 093                    | 660           |
| Other areas in the Northeast                     |                   |                  |                  |                                      |                  |                          |               |
| Atlantic Ocean .....                             | 549 178           | 532 008          | 7 198            | 7 142                                | 143              | 2 469                    | 218           |
| Northwest Atlantic Ocean .....                   | 2 337             | -                | 248              | 1 404                                | -                | 674                      | 11            |
| Outside the North Atlantic                       |                   |                  |                  |                                      |                  |                          |               |
| Ocean .....                                      | 10 397            | -                | -                | -                                    | -                | 9 981                    | 417           |
| <b>Coastal fishing, total</b> .....              | <b>526 385</b>    | <b>244 695</b>   | <b>250 973</b>   | <b>14 961</b>                        | <b>995</b>       | <b>14 039</b>            | <b>722</b>    |
| The Norwegian Sea/Barents                        |                   |                  |                  |                                      |                  |                          |               |
| Sea/Svalbard .....                               | 497 914           | 231 872          | 243 649          | 13 498                               | 632              | 7 705                    | 558           |
| The North Sea/Skagerrak .....                    | 28 471            | 12 823           | 7 324            | 1 463                                | 364              | 6 334                    | 164           |
| <b>Unknown</b> .....                             | <b>-</b>          | <b>-</b>         | <b>-</b>         | <b>-</b>                             | <b>-</b>         | <b>-</b>                 | <b>-</b>      |
| NOK 1 000  |                   |                  |                  |                                      |                  |                          |               |
| <b>Total</b> .....                               | <b>11 675 059</b> | <b>4 163 564</b> | <b>5 886 543</b> | <b>804 362</b>                       | <b>10 707</b>    | <b>767 140</b>           | <b>42 742</b> |
| <b>Offshore fishing, total<sup>1</sup></b> ..... | <b>7 865 728</b>  | <b>3 225 182</b> | <b>3 581 925</b> | <b>539 565</b>                       | <b>3 699</b>     | <b>474 706</b>           | <b>40 650</b> |
| The Norwegian Sea/Barents                        |                   |                  |                  |                                      |                  |                          |               |
| Sea/Svalbard .....                               | 4 725 687         | 1 085 871        | 2 971 419        | 365 476                              | 497              | 292 881                  | 9 542         |
| The North Sea/Skagerrak .....                    | 2 180 713         | 1 507 685        | 508 100          | 50 858                               | 1 595            | 108 347                  | 4 128         |
| Other areas in the Northeast                     |                   |                  |                  |                                      |                  |                          |               |
| Atlantic Ocean .....                             | 888 081           | 631 626          | 98 097           | 93 778                               | 1 608            | 60 894                   | 2 078         |
| Northwest Atlantic Ocean .....                   | 43 401            | -                | 4 309            | 29 452                               | -                | 9 574                    | 66            |
| Outside the North Atlantic                       |                   |                  |                  |                                      |                  |                          |               |
| Ocean .....                                      | 27 845            | -                | -                | -                                    | -                | 3 011                    | 24 835        |
| <b>Coastal fishing, total</b> .....              | <b>3 809 331</b>  | <b>938 381</b>   | <b>2 304 618</b> | <b>264 797</b>                       | <b>7 008</b>     | <b>292 434</b>           | <b>2 092</b>  |
| The Norwegian Sea/Barents                        |                   |                  |                  |                                      |                  |                          |               |
| Sea/Svalbard .....                               | 3 461 436         | 858 426          | 2 245 804        | 221 503                              | 4 423            | 130 532                  | 748           |
| The North Sea/Skagerrak .....                    | 347 895           | 79 956           | 58 814           | 43 294                               | 2 585            | 161 902                  | 1 344         |
| <b>Unknown</b> .....                             | <b>-</b>          | <b>-</b>         | <b>-</b>         | <b>-</b>                             | <b>-</b>         | <b>-</b>                 | <b>-</b>      |

<sup>1</sup> Offshore fishing is all kinds of fishing outside the 12 n. mile zone.

Source: The Directorate of Fisheries.

**13. Quantity and value of catch, by main group of target species and landing county. 2006**

| County                         | Total            |                   | Pelagic fish             |                  | Codfishes      |                  | Flatfishes and other demersal fishes |                |
|--------------------------------|------------------|-------------------|--------------------------|------------------|----------------|------------------|--------------------------------------|----------------|
|                                | Quantity         | Value             | Quantity                 | Value            | Quantity       | Value            | Quantity                             | Value          |
|                                | Tonnes           | NOK 1 000         | Tonnes                   | NOK 1 000        | Tonnes         | NOK 1 000        | Tonnes                               | NOK 1 000      |
| <b>Total</b> .....             | <b>2 256 348</b> | <b>11 675 059</b> | <b>1 536 002</b>         | <b>4 163 564</b> | <b>585 343</b> | <b>5 886 543</b> | <b>73 521</b>                        | <b>804 362</b> |
| Østfold .....                  | 2 018            | 36 612            | 381                      | 1 186            | 187            | 1 819            | 44                                   | 829            |
| Akershus .....                 | 88               | 1 719             | 22                       | 362              | 37             | 336              | 9                                    | 221            |
| Oslo .....                     | 77               | 3 414             | 10                       | 283              | 36             | 917              | 4                                    | 148            |
| Buskerud .....                 | 1                | 0                 | -                        | -                | -              | -                | -                                    | -              |
| Vestfold .....                 | 853              | 15 230            | 18                       | 324              | 186            | 1 948            | 36                                   | 792            |
| Telemark .....                 | 1 031            | 17 874            | 22                       | 380              | 234            | 2 582            | 53                                   | 1 444          |
| Aust-Agder .....               | 1 264            | 30 216            | 10                       | 120              | 190            | 2 307            | 54                                   | 1 292          |
| Vest-Agder .....               | 9 013            | 111 701           | 5 392                    | 17 862           | 882            | 10 772           | 371                                  | 14 235         |
| Rogaland .....                 | 431 392          | 884 231           | 421 174                  | 752 096          | 4 793          | 22 389           | 2 049                                | 11 391         |
| Hordaland .....                | 50 517           | 264 119           | 48 267                   | 234 821          | 1 619          | 11 527           | 314                                  | 8 862          |
| Sogn og Fjordane .....         | 264 212          | 974 080           | 242 928                  | 730 353          | 17 576         | 206 588          | 2 873                                | 31 097         |
| Møre og Romsdal .....          | 545 441          | 3 291 062         | 318 386                  | 1 021 445        | 196 017        | 1 875 655        | 28 230                               | 322 057        |
| Sør-Trøndelag .....            | 40 092           | 199 195           | 26 730                   | 87 743           | 8 985          | 53 422           | 949                                  | 22 526         |
| Nord-Trøndelag .....           | 13 679           | 72 012            | 3 611                    | 4 473            | 3 706          | 33 856           | 5 670                                | 26 510         |
| Nordland .....                 | 358 466          | 2 327 621         | 207 187                  | 676 151          | 131 327        | 1 462 110        | 16 903                               | 161 894        |
| Troms .....                    | 202 910          | 1 783 236         | 55 221                   | 181 482          | 111 795        | 1 199 278        | 9 539                                | 114 322        |
| Finnmark Finnmarku .....       | 105 709          | 1 030 332         | 92                       | 116              | 100 943        | 944 807          | 3 440                                | 34 402         |
| Unknown or landed abroad ..... | 229 586          | 632 405           | 206 550                  | 454 367          | 6 828          | 56 230           | 2 982                                | 52 341         |
|                                |                  |                   | Crustaceans and molluscs |                  |                |                  |                                      |                |
|                                | Deep-sea species |                   |                          |                  | Other          |                  |                                      |                |
|                                | Quantity         | Value             | Quantity                 | Value            | Quantity       | Value            |                                      |                |
|                                | Tonnes           | NOK 1 000         | Tonnes                   | NOK 1 000        | Tonnes         | NOK 1 000        |                                      |                |
| <b>Total</b> .....             | <b>1 949</b>     | <b>10 707</b>     | <b>57 172</b>            | <b>767 140</b>   | <b>2 361</b>   | <b>42 742</b>    |                                      |                |
| Østfold .....                  | 33               | 379               | 1 372                    | 32 399           | 0              | 0                |                                      |                |
| Akershus .....                 | 0                | 1                 | 20                       | 799              | 0              | 0                |                                      |                |
| Oslo .....                     | 0                | 2                 | 20                       | 1 905            | 7              | 150              |                                      |                |
| Buskerud .....                 | -                | -                 | -                        | -                | 1              | 0                |                                      |                |
| Vestfold .....                 | 32               | 259               | 578                      | 11 906           | 3              | 0                |                                      |                |
| Telemark .....                 | 13               | 115               | 710                      | 13 350           | 0              | 3                |                                      |                |
| Aust-Agder .....               | 14               | 154               | 993                      | 26 342           | 2              | 2                |                                      |                |
| Vest-Agder .....               | 77               | 526               | 2 248                    | 67 874           | 43             | 432              |                                      |                |
| Rogaland .....                 | 147              | 492               | 2 839                    | 96 934           | 389            | 929              |                                      |                |
| Hordaland .....                | 60               | 326               | 248                      | 8 410            | 8              | 174              |                                      |                |
| Sogn og Fjordane .....         | 387              | 1 773             | 289                      | 3 764            | 158            | 505              |                                      |                |
| Møre og Romsdal .....          | 382              | 2 046             | 1 804                    | 55 188           | 620            | 14 670           |                                      |                |
| Sør-Trøndelag .....            | 379              | 2 695             | 2 912                    | 32 780           | 137            | 28               |                                      |                |
| Nord-Trøndelag .....           | 122              | 1 200             | 502                      | 5 939            | 68             | 34               |                                      |                |
| Nordland .....                 | 59               | 200               | 2 884                    | 27 116           | 106            | 151              |                                      |                |
| Troms .....                    | 19               | 75                | 26 272                   | 287 825          | 63             | 255              |                                      |                |
| Finnmark Finnmarku .....       | 14               | 16                | 1 042                    | 50 989           | 179            | 2                |                                      |                |
| Unknown or landed abroad ..... | 211              | 449               | 12 440                   | 43 611           | 576            | 25 407           |                                      |                |

Source: The Directorate of Fisheries.

**14. Quantity and value of catch, by sales co-operative. 2006**

| Sales co-operatives                                | Tonnes live weight | NOK 1 000         |
|--|--------------------|-------------------|
| <b>Total</b> .....                                 | <b>2 256 348</b>   | <b>11 675 059</b> |
| Skagerrakfisk S/L .....                            | 11 822             | 239 598           |
| Rogaland Fiskesalgslag S/L .....                   | 9 531              | 172 880           |
| Vest-Norges Fiskesalgslag .....                    | 20 545             | 267 555           |
| Sunnmøre og Romsdal Fiskesalgslag .....            | 207 147            | 2 163 920         |
| The Norwegian Fishermen's Sales Organisation ..... | 464 744            | 4 634 191         |
| Norges Sildesalgslag .....                         | 1 541 553          | 4 171 506         |
| Catch notified in another way <sup>1</sup> .....   | 1 007              | 25 409            |

<sup>1</sup> Comprise catch of fish species of which the sales co-operatives do not have monopoly of first-hand sale. Some figures for catch value are partly estimated.

Source: The Directorate of Fisheries.

## 15. Sealing, 1950-2006

|            | Number of animals caught, total | Harp seal, total    | Hooded seal, total | Other <sup>1</sup> | Total production of blubber | Value of catch, total. |           |
|------------|---------------------------------|---------------------|--------------------|--------------------|-----------------------------|------------------------|-----------|
|            |                                 |                     |                    |                    |                             | Tonnes                 | NOK 1 000 |
| 1950 ..... | 255 056                         | 161 602             | 88 418             | 5 036              | 5 293                       | 12 227                 |           |
| 1955 ..... | 295 172                         | 222 058             | 71 027             | 2 087              | 5 656                       | 15 703                 |           |
| 1960 ..... | 216 034                         | 170 016             | 45 429             | 589                | 4 584                       | 16 731                 |           |
| 1965 ..... | 140 118                         | 97 765              | 41 161             | 1 192              | 2 683                       | 22 923                 |           |
| 1970 ..... | 188 980                         | 146 258             | 42 044             | 658                | 4 005                       | 21 701                 |           |
| 1975 ..... | 112 274                         | 75 930              | 36 182             | 155                | 2 392                       | 17 738                 |           |
| 1980 ..... | <sup>2</sup> 60 746             | 45 289              | 15 456             | 1                  | 1 008                       | <sup>3</sup> 11 796    |           |
| 1985 ..... | 19 902                          | 19 546              | 338                | -                  | 621                         | 1 548                  |           |
| 1990 ..... | 15 232                          | 14 959              | 273                | -                  | 451                         | 11 796                 |           |
| 1995 ..... | 15 981                          | 15 048              | 933                | -                  | 407                         | <sup>4</sup> ..        |           |
| 1998 ..... | 9 067                           | 2 716               | 6 351              | ..                 | 167                         | 2 331                  |           |
| 1999 ..... | 6 399                           | 1 953               | 4 446              | ..                 | 84                          | 1 591                  |           |
| 2000 ..... | 20 549                          | 18 678              | 1 871              | -                  | 353                         | 2 718                  |           |
| 2001 ..... | 12 012                          | 8 192               | 3 820              | -                  | 321                         | 2 873                  |           |
| 2002 ..... | 10 691                          | 3 575               | 7 116              | -                  | 187                         | 4 094                  |           |
| 2003 ..... | 12 870                          | 7 575               | 5 295              | -                  | 213                         | 4 215                  |           |
| 2004 ..... | 14 746                          | 9 895               | 4 851              | -                  | 192                         | 4 319                  |           |
| 2005 ..... | 21 597                          | <sup>5</sup> 17 771 | 3 826              | -                  | 340                         | 3 859                  |           |
| 2006 ..... | 17 037                          | 13 390              | 3 647              | -                  | 516                         | 4 488                  |           |

<sup>1</sup> Bearded seal, ringed seal and polar bear. <sup>2</sup> Not included 295 seals for scientific purpose and 3 311 harp seals accidentally caught in gillnets in Varangerfjorden. <sup>3</sup> Included subsidies with NOK 1.50 per kg. <sup>4</sup> The seal catch was not sold. <sup>5</sup> Included 60 seals for scientific purpose.

Source: The Directorate of Fisheries.

## 16. Coastal whaling, 1974-2006

|            | Vessels | Whales caught    | Production |                    |          |           |          |                  |             |           |
|------------|---------|------------------|------------|--------------------|----------|-----------|----------|------------------|-------------|-----------|
|            |         |                  | Total      |                    | Meat     |           | Blubber  |                  | Animal feed |           |
|            |         |                  | Quantity   | Value <sup>1</sup> | Quantity | Value     | Quantity | Value            | Quantity    | Value     |
|            |         |                  | Tonnes     | NOK 1 000          | Tonnes   | NOK 1 000 | Tonnes   | NOK 1 000        | Tonnes      | NOK 1 000 |
| 1974 ..... | 84      | 1 827            | 3 543      | 15 472             | 2 649    | ..        | 848      | ..               | 46          | ..        |
| 1975 ..... | 80      | 1 790            | 3 058      | 15 102             | 2 110    | ..        | 670      | ..               | 278         | ..        |
| 1976 ..... | 83      | 2 146            | 3 801      | 31 068             | 3 041    | ..        | 685      | ..               | 75          | ..        |
| 1977 ..... | 87      | 1 779            | 3 281      | 28 942             | 2 489    | ..        | 752      | ..               | 40          | ..        |
| 1978 ..... | 87      | 1 655            | 2 893      | 23 244             | 2 081    | ..        | 771      | ..               | 42          | ..        |
| 1979 ..... | 84      | 2 201            | 4 262      | 33 923             | 2 836    | ..        | 1 222    | ..               | 204         | ..        |
| 1980 ..... | 89      | 2 054            | 4 246      | 39 660             | 3 059    | 36 613    | 1 130    | 3 001            | 57          | 46        |
| 1981 ..... | 89      | 1 890            | 3 499      | 35 719             | 2 540    | 33 502    | 940      | 2 202            | 19          | 15        |
| 1982 ..... | 80      | 1 963            | 3 529      | 39 837             | 2 631    | 37 338    | 873      | 2 478            | 25          | 21        |
| 1983 ..... | 79      | 1 869            | 3 491      | 45 617             | 2 583    | 40 455    | 896      | 5 152            | 12          | 10        |
| 1984 ..... | 55      | 804              | 1 947      | 32 681             | 1 439    | 28 513    | 477      | 4 096            | 30          | 72        |
| 1985 ..... | 53      | 771              | 1 839      | 34 626             | 1 406    | 30 525    | 427      | 4 095            | 6           | 6         |
| 1986 ..... | 53      | 383              | 1 008      | 20 489             | 790      | 18 842    | 213      | 1 642            | 5           | 5         |
| 1987 ..... | 50      | 375              | 1 003      | 21 294             | 827      | 21 100    | 174      | <sup>2</sup> 193 | 1           | 1         |
| 1988 ..... | 2       | <sup>3</sup> 29  | 42         | 816                | 33       | 808       | -        | -                | 9           | 9         |
| 1989 ..... | 1       | <sup>3</sup> 17  | 22         | 508                | 19       | 505       | -        | -                | 3           | 3         |
| 1990 ..... | 1       | <sup>3</sup> 5   | 8          | 231                | 8        | 231       | -        | -                | -           | -         |
| 1991 ..... | -       | -                | -          | -                  | -        | -         | -        | -                | -           | -         |
| 1992 ..... | 6       | <sup>3</sup> 95  | 150        | 3 232              | 121      | 3 228     | 28       | 3                | 1           | 1         |
| 1993 ..... | 31      | <sup>4</sup> 217 | 454        | 16 253             | 353      | 16 196    | 91       | 46               | 10          | 10        |
| 1994 ..... | 32      | <sup>5</sup> 273 | 478        | 15 724             | 422      | 15 695    | 58       | 22               | 7           | 7         |
| 1995 ..... | 33      | 217              | 456        | 13 068             | 335      | 10 298    | 119      | 2 755            | 2           | 15        |
| 1996 ..... | 31      | 388              | 681        | 15 379             | 556      | 15 365    | 123      | 12               | 2           | 2         |
| 1997 ..... | 31      | 503              | 779        | 22 029             | 732      | 21 934    | 46       | 94               | 1           | 1         |
| 1998 ..... | 34      | 624              | 1 144      | 27 365             | 912      | 26 747    | 226      | 592              | 6           | 26        |
| 1999 ..... | 34      | 589              | 996        | 24 271             | 839      | 23 814    | 157      | 457              | -           | -         |
| 2000 ..... | 33      | 487              | 809        | 21 622             | 713      | 21 404    | 96       | 218              | -           | -         |
| 2001 ..... | 33      | 552              | 1 141      | 27 407             | 837      | 25 729    | 304      | 1 678            | -           | -         |
| 2002 ..... | 34      | 671              | 974        | 27 623             | 911      | 27 617    | 63       | 6                | 0           | 0         |
| 2003 ..... | 34      | 647              | 895        | 26 270             | 894      | 26 267    | 1        | 3                | -           | -         |
| 2004 ..... | 34      | 543              | 704        | 20 711             | 704      | 20 711    | -        | -                | -           | -         |
| 2005 ..... | 31      | 634              | 834        | 24 226             | 834      | 24 226    | -        | -                | -           | -         |
| 2006 ..... | 28      | 545              | 698        | 20 819             | 689      | 20 774    | 9        | 45               | -           | -         |

<sup>1</sup> Included subsidies to whaler. <sup>2</sup> The low values is due to that no blubber was sold for human consumption. <sup>3</sup> Animals caught for research purposes. <sup>4</sup> Included 69 animals for research purposes. <sup>5</sup> Included 70 animals for research purposes.

Source: The Directorate of Fisheries.

**17. World catch of fish, by disposition. Fish farming is included. 1997-2006. Million tonnes live weight**

|                                 | 1997         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         | 2004         | 2005         | 2006         |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total catch</b> .....        | <b>122.8</b> | <b>118.1</b> | <b>127.0</b> | <b>131.1</b> | <b>131.0</b> | <b>133.6</b> | <b>133.2</b> | <b>140.5</b> | <b>142.7</b> | <b>143.6</b> |
| For human consumption, total .  | 91.8         | 93.5         | 95.5         | 97.0         | 100.2        | 100.6        | 103.4        | 105.0        | 107.1        | 110.4        |
| Fresh .....                     | 46.3         | 47.6         | 49.1         | 49.8         | 51.2         | 52.1         | 51.2         | 51.4         | 51.4         | 53.6         |
| Frozen .....                    | 25.0         | 24.9         | 25.1         | 25.2         | 26.1         | 26.0         | 26.6         | 26.8         | 28.1         | 28.6         |
| Salted etc. ....                | 9.3          | 10.1         | 10.4         | 10.8         | 11.3         | 10.7         | 11.5         | 11.5         | 11.8         | 11.9         |
| Canned .....                    | 11.2         | 10.9         | 10.9         | 11.2         | 11.6         | 11.7         | 14.1         | 14.9         | 15.8         | 16.3         |
| For other purposes, total ..... | 31.0         | 24.6         | 31.5         | 34.1         | 30.8         | 33.1         | 29.8         | 36.0         | 35.6         | 33.3         |
| Reduction .....                 | 26.1         | 19.7         | 25.7         | 28.0         | 23.9         | 25.4         | 20.8         | 25.1         | 23.5         | 20.2         |
| Other .....                     | 4.9          | 4.8          | 5.9          | 6.1          | 6.9          | 7.7          | 9.0          | 10.9         | 12.1         | 13.1         |

Source: FAO: Yearbook of Fishery Statistics.

**18. Total world catch by countries with the largest catches. Quantity. 1997-2006. Mill. tonnes.**

|                           | 1997         | 1998         | 1999         | 2000         | 2001         | 2002         | 2003         | 2004         | 2005         | 2006         |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>World, total</b> ..... | <b>94.24</b> | <b>87.61</b> | <b>93.66</b> | <b>95.67</b> | <b>93.02</b> | <b>93.23</b> | <b>90.49</b> | <b>94.57</b> | <b>94.20</b> | <b>91.99</b> |
| China .....               | 15.72        | 17.23        | 17.24        | 16.99        | 16.53        | 16.55        | 16.76        | 16.89        | 17.05        | 17.09        |
| Peru .....                | 7.87         | 4.34         | 8.43         | 10.66        | 7.99         | 8.77         | 6.09         | 9.60         | 9.39         | 7.02         |
| USA .....                 | 4.98         | 4.71         | 4.75         | 4.72         | 4.94         | 4.94         | 4.94         | 4.96         | 4.89         | 4.86         |
| Indonesia .....           | 3.79         | 3.96         | 3.99         | 4.08         | 4.24         | 4.32         | 4.63         | 4.64         | 4.70         | 4.76         |
| Japan .....               | 5.92         | 5.30         | 5.19         | 4.99         | 4.70         | 4.36         | 4.67         | 4.31         | 4.09         | 4.19         |
| Chile .....               | 5.81         | 3.27         | 5.05         | 4.30         | 3.80         | 4.28         | 3.61         | 4.92         | 4.33         | 4.17         |
| India .....               | 3.52         | 3.37         | 3.47         | 3.67         | 3.78         | 3.74         | 3.71         | 3.39         | 3.69         | 3.86         |
| Russian Fed .....         | 4.66         | 4.45         | 4.14         | 3.97         | 3.63         | 3.23         | 3.28         | 2.94         | 3.20         | 3.28         |
| Thailand .....            | 2.90         | 2.93         | 2.95         | 3.00         | 2.83         | 2.84         | 2.85         | 2.84         | 2.81         | 2.78         |
| Philippines .....         | 1.81         | 1.83         | 1.87         | 1.90         | 1.95         | 2.03         | 2.17         | 2.21         | 2.25         | 2.32         |
| Norway .....              | 2.86         | 2.86         | 2.63         | 2.70         | 2.69         | 2.74         | 2.55         | 2.52         | 2.39         | 2.26         |
| Myanmar .....             | 0.78         | 0.83         | 0.92         | 1.09         | 1.19         | 1.28         | 1.34         | 1.59         | 1.73         | 2.01         |
| Viet Nam .....            | 1.28         | 1.29         | 1.39         | 1.62         | 1.72         | 1.80         | 1.86         | 1.88         | 1.93         | 1.96         |
| Korea Rep .....           | 2.20         | 2.03         | 2.12         | 1.82         | 1.99         | 1.67         | 1.64         | 1.58         | 1.64         | 1.75         |
| Bangladesh .....          | 0.83         | 0.84         | 0.96         | 1.00         | 1.07         | 1.10         | 1.14         | 1.19         | 1.33         | 1.44         |

Source: FAO: Yearbook of Fishery Statistics.

**19. Quantity and value of catch landed in Norway by foreign vessels, by main group<sup>1</sup> of target species.1986-2006.**

| Year               | Total     | Pelagic fish | Cod fish  | Flatfishes and other demersal fishes | Deep-sea species | Crustaceans and molluscs | Other  |
|--------------------|-----------|--------------|-----------|--------------------------------------|------------------|--------------------------|--------|
| Tonnes live weight |           |              |           |                                      |                  |                          |        |
| 1986               | 8 380     | 8 169        | 9         | 1                                    | 0                | 199                      | 1      |
| 1987               | 10 049    | 8 942        | 687       | 34                                   | 1                | 385                      | 0      |
| 1988               | 28 880    | 22 295       | 6 338     | 81                                   | 1                | 137                      | 28     |
| 1989               | 27 717    | 18 047       | 9 613     | 23                                   | 31               | 0                        | 4      |
| 1990               | 61 088    | 45 549       | 15 437    | 97                                   | 1                | 2                        | 2      |
| 1991               | 109 372   | 72 330       | 35 942    | 497                                  | 24               | 570                      | 10     |
| 1992               | 166 394   | 67 291       | 90 092    | 1 749                                | 21               | 7 183                    | 58     |
| 1993               | 233 477   | 103 106      | 116 391   | 1 232                                | 2                | 12 584                   | 164    |
| 1994               | 212 234   | 69 427       | 134 771   | 1 370                                | 3                | 6 641                    | 22     |
| 1995               | 262 693   | 88 842       | 160 384   | 2 207                                | 3                | 11 218                   | 39     |
| 1996               | 308 232   | 136 200      | 154 699   | 3 950                                | 3                | 13 328                   | 52     |
| 1997               | 390 553   | 197 991      | 175 576   | 5 424                                | 6                | 11 511                   | 46     |
| 1998               | 389 283   | 223 615      | 141 983   | 10 168                               | 51               | 12 574                   | 892    |
| 1999               | 430 961   | 223 920      | 169 211   | 13 810                               | 18               | 21 361                   | 2 641  |
| 2000               | 547 199   | 347 078      | 155 335   | 13 917                               | 12               | 29 299                   | 1 558  |
| 2001               | 515 530   | 324 553      | 166 440   | 10 129                               | 38               | 13 422                   | 947    |
| 2002               | 540 149   | 362 707      | 158 274   | 8 842                                | 79               | 9 950                    | 296    |
| 2003               | 383 286   | 275 506      | 97 706    | 5 342                                | 5                | 4 563                    | 165    |
| 2004               | 269 012   | 158 777      | 97 313    | 5 727                                | 18               | 6 633                    | 545    |
| 2005               | 168 675   | 62 235       | 94 738    | 6 179                                | 53               | 5 390                    | 79     |
| 2006               | 215 463   | 95 215       | 111 901   | 5 077                                | 4                | 3 192                    | 75     |
| NOK 1 000          |           |              |           |                                      |                  |                          |        |
| 1986               | 7 959     | 4 437        | 25        | 10                                   | 0                | 3 486                    | 3      |
| 1987               | 11 854    | 2 151        | 3 839     | 368                                  | 3                | 5 491                    | 1      |
| 1988               | 53 152    | 20 593       | 30 407    | 282                                  | 3                | 1 838                    | 28     |
| 1989               | 70 811    | 19 748       | 50 862    | 87                                   | 84               | 6                        | 23     |
| 1990               | 199 925   | 79 294       | 120 017   | 447                                  | 3                | 35                       | 130    |
| 1991               | 494 740   | 144 789      | 343 284   | 2 523                                | 60               | 3 909                    | 176    |
| 1992               | 844 780   | 114 867      | 662 554   | 7 585                                | 104              | 59 588                   | 82     |
| 1993               | 916 173   | 147 744      | 664 012   | 5 599                                | 4                | 98 043                   | 770    |
| 1994               | 1 011 383 | 127 213      | 818 979   | 5 815                                | 10               | 59 115                   | 251    |
| 1995               | 1 334 244 | 234 984      | 975 894   | 10 756                               | 9                | 112 150                  | 451    |
| 1996               | 1 464 622 | 536 970      | 811 530   | 19 823                               | 16               | 95 420                   | 862    |
| 1997               | 1 711 667 | 553 424      | 1 044 169 | 28 176                               | 26               | 84 378                   | 1 495  |
| 1998               | 2 488 228 | 985 352      | 1 319 854 | 63 757                               | 106              | 116 397                  | 2 763  |
| 1999               | 2 689 885 | 577 751      | 1 792 231 | 102 791                              | 50               | 201 796                  | 15 267 |
| 2000               | 3 154 258 | 959 217      | 1 771 469 | 117 598                              | 41               | 296 621                  | 9 311  |
| 2001               | 3 542 155 | 1 346 401    | 1 976 938 | 86 765                               | 109              | 125 896                  | 6 046  |
| 2002               | 3 078 379 | 1 220 960    | 1 687 005 | 53 064                               | 177              | 110 948                  | 6 224  |
| 2003               | 1 768 741 | 725 558      | 928 495   | 42 224                               | 21               | 68 789                   | 3 654  |
| 2004               | 1 702 650 | 671 687      | 910 041   | 37 299                               | 49               | 78 177                   | 5 397  |
| 2005               | 1 581 271 | 532 226      | 925 844   | 49 387                               | 201              | 72 107                   | 1 507  |
| 2006               | 1 866 070 | 515 071      | 1 222 113 | 39 673                               | 365              | 87 262                   | 1 587  |

<sup>1</sup> See appendix A.

Source: The Directorate of Fisheries.

**20. Quantity and value<sup>1</sup> of catch landed in Norway by foreign vessels, by main group of target species and nationality of the vessel. 2006.**

| Country                            | Total            | Pelagic fish   | Codfishes        | Flatfishes and other demersal fishes | Deep-sea species | Crustaceans and molluscs | Other        |
|------------------------------------|------------------|----------------|------------------|--------------------------------------|------------------|--------------------------|--------------|
| Tonnes live weight                 |                  |                |                  |                                      |                  |                          |              |
| <b>Total</b> .....                 | <b>215 463</b>   | <b>95 215</b>  | <b>111 901</b>   | <b>5 077</b>                         | <b>4</b>         | <b>3 192</b>             | <b>75</b>    |
| Russia .....                       | 112 130          | 1 740          | 104 556          | 4 706                                | 0                | 1 113                    | 14           |
| United Kingdom .....               | 34 353           | 32 991         | 1 312            | 4                                    | 3                | -                        | 43           |
| Denmark .....                      | 15 209           | 14 930         | 203              | 61                                   | 2                | 3                        | 11           |
| Ireland .....                      | 10 891           | 10 412         | 435              | 39                                   | -                | -                        | 5            |
| Faroe Islands .....                | 28 055           | 27 157         | 187              | 4                                    | 0                | 705                      | 2            |
| Sweden .....                       | 7 861            | 7 860          | 2                | -                                    | -                | -                        | -            |
| Other countries <sup>2</sup> ..... | 6 963            | 125            | 5 206            | 262                                  | -                | 1 370                    | -            |
| NOK 1 000                          |                  |                |                  |                                      |                  |                          |              |
| <b>Total</b> .....                 | <b>1 866 070</b> | <b>515 071</b> | <b>1 222 113</b> | <b>39 673</b>                        | <b>365</b>       | <b>87 262</b>            | <b>1 587</b> |
| Russia .....                       | 1 274 422        | 3 922          | 1 165 469        | 35 395                               | 333              | 67 858                   | 1 445        |
| United Kingdom .....               | 239 599          | 225 853        | 13 537           | 49                                   | 24               | -                        | 137          |
| Denmark .....                      | 56 232           | 54 075         | 1 060            | 975                                  | 8                | 109                      | 5            |
| Ireland .....                      | 79 750           | 73 990         | 5 531            | 230                                  | -                | -                        | 0            |
| Faroe Islands .....                | 149 939          | 141 806        | 978              | 58                                   | 0                | 7 097                    | 0            |
| Sweden .....                       | 15 280           | 15 280         | 0                | -                                    | -                | -                        | -            |
| Other countries <sup>2</sup> ..... | 50 848           | 144            | 35 540           | 2 967                                | -                | 12 197                   | -            |

<sup>1</sup> Some target species which are by-catches in consumption landings have no value specified. <sup>2</sup> Including amongst others Iceland, Germany, Greenland, Poland and Lithuania.

Source: The Directorate of Fisheries.

## 5. Processing and foreign trade

### 5.1. Main results

The number of establishments and employees in the fish processing industry are continuously in decline. There were 558 establishments in 2006, down almost 100 establishments since 2000. In total 8 787 persons were employed in the industry in 2006, which is more than 3 600 fewer than in 2000. Nordland is the county with most establishments and employees.

The export of fish and fish products has the last couple of years increased in value, while the quantity of the export has been about the same. The export of fish from fisheries is still dominating both in quantity and value. However, the export of farmed fish is growing steadily, and represents the largest growth in value, as the salmon prices has been high.

The total export value of fish and fish products in 2006 was NOK 35.7 billion, up 11 per cent from the previous year. The export quantity was 1.9 billion tonnes, down 7 per cent from the previous year. Approximately half of the quantity was sold to EU, which in value accounted for close to 64 per cent. Countries with the largest import measured in quantity were Denmark, Russia, United Kingdom and France. Apart from farmed salmon, the highest value comes from *other frozen fish, exclusive fillets*, which primarily was sold to non-EU countries. Norway imported 578 000 tonnes of fish at a value of NOK 5.4 billion in 2006.

### 5.2. Statistics production

*Population* The statistics on establishments and employees cover all establishments in manufacturing, subgroup *15.2 Processing and preserving of fish and fish products*, as defined by the Norwegian Standard Industrial Classification.

The statistics on external trade of fish and fish products cover customs declared shipments, fish products from fish farming included. The list of commodity numbers is shown in appendix G.

*Data sources* The manufacturing statistics are based on information from questionnaires and data from administrative registers. The standard financial report that the tax authorities collect from the enterprises (the Standard Industry Form) are an important source for enterprises with at least ten employees. The Standard Industry Form covers income statement and balance.

For the remaining establishments total figures are estimated based on annual accounts, employment and sales. All joint-stock companies are required to send their annual accounts to the Norwegian Register of Company Accounts in Brønnøysund. The annual accounts include the income statement as well as the balance sheet, but the specifications vary and are not as detailed as the Standard Industry Form.

The majority of entries to the Central Register of Establishments and Enterprises of Statistics Norway have been taken from the Central Coordinating Register for Legal Entities in Brønnøysund. The Central Coordinating Register for Legal Entities contains all enterprises in the Value Added Tax Register of the Directorate of Taxes and the Register of Employers of the National Insurance Administration.

The statistic on export and import of fish and fish products are based on administrative data from customs declarations collected by the customs authority under the Customs Act.

*Collection of data, control and revision* *Manufacturing statistic:* The questionnaires are sent to the enterprises and optically read upon return. Standard industry forms that have not been received electronically are manually registered. The data collected are edited at establishment level. Consistency controls are conducted between items on the form, against information for the previous year, against production statistics, against the Central Register of Establishments and Enterprises, against the standard industry form and against the annual reports.

*External trade:* The relevant data are transmitted electronically from the Directorate of Customs and Excise to Statistics Norway twice a week. The data go through automatic controls in the electronic customs' declaration system. The controls are partly determined by the customs and partly in cooperation with Statistic Norway. In the subsequent revision in Statistic Norway e.g. procedure codes and commodity numbers are examined by a system which intends to catch and correct the most serious errors in the data.

### 5.3. Concepts, variables and classifications

*Definitions* An *establishment* is defined as a functional unit, which at a single physical location is engaged mainly in activities within a specific activity group. This definition corresponds to the definition in ISIC Rev. 3.

An *enterprise* is defined as an organisational unit comprising all economic activities engaged in by one and the same owner. Hence an enterprise is a legal entity covering one or more productive units (establishments).

*Export* comprise goods declared for exports directly from free circulation and from customs' warehouses.

*Imports* comprise goods that are declared directly at the border crossing or via a customs' warehouse. Goods going directly from abroad to regular installations on the Norwegian Continental Shelf are not included, whereas goods via Norwegian customs district are included.

The Norwegian commodity classification for customs' and statistical purposes is based on the international customs and statistical nomenclature Harmonised System (HS).

*Standard classifications* Norwegian Standard Industrial Classification, which is based on the industrial classifications approved by the EU (NACE Rev. 1.1) and the UN (ISIC Rev. 3).

The Harmonised System classifies goods mainly according to their type of physical material. In addition to the six-digit code of the HS, the Norwegian nomenclature has a national seventh digit for customs' purposes and an eight for statistical needs. The nomenclature is published annually in the series NOS (Official Statistics Norway) Commodity List.

The country nomenclature follows the international standard ISO-3166.

### 5.4. Sources of error and uncertainty

*Measurement and processing errors* *Manufacturing Statistics:* Common errors occur during processing such as coding, data entry, data editing, imputation, etc. There are also errors in the register, during optical reading, different accounting and different interpretation of concepts.

*External trade:* Collection errors may occur in the data due to misunderstandings etc., unless discovered and corrected in the customs' controls. Errors may be misclassification of goods, estimation and mistaken country codes etc.



*Non-response errors* *Manufacturing statistics:* There is response from 95 per cent of the units in the sample, so problems caused by non-response are small. The item non-response is slightly higher, i.e. that the unit has failed to respond to some but not all the questions in the survey.

*Sampling errors* *Manufacturing statistics:* Sampling errors arise from the fact that the estimates are based on a sample and not a census of the entire population.

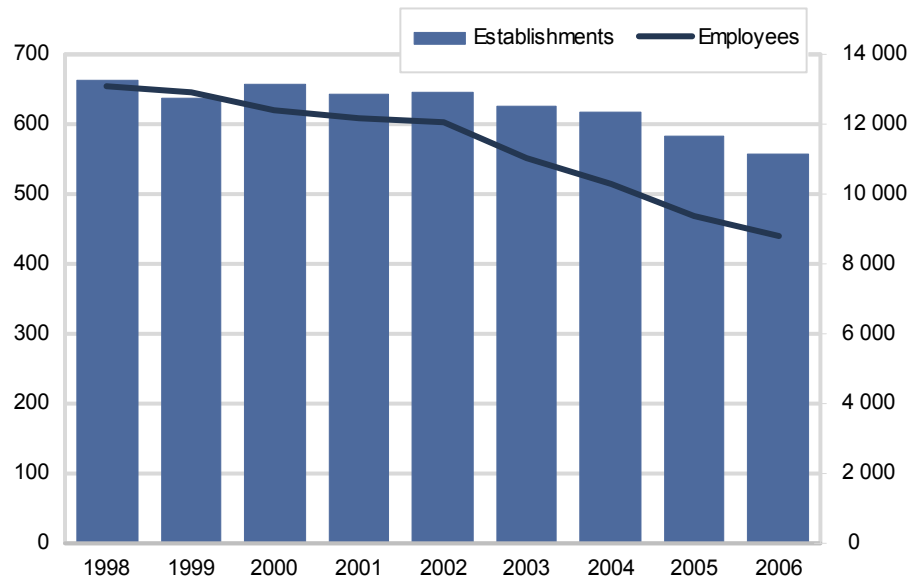
### 5.5. Comparability and coherence

*Comparability over time and space* The series NOS Fishery Statistics has published time series on establishments and employment since 1972. Figures of export and import have been published since 1977.

Mainly, the data are comparable when it concerns coverage and variables. However, there have been changes in the Standard Industry Classification, sample size and minor adjustments in a few definitions. The same applies to the eight-digit, HS-based commodity classification, which is subject to revisions regularly due to development of commodities in the world trade. There are also yearly modifications at national level.

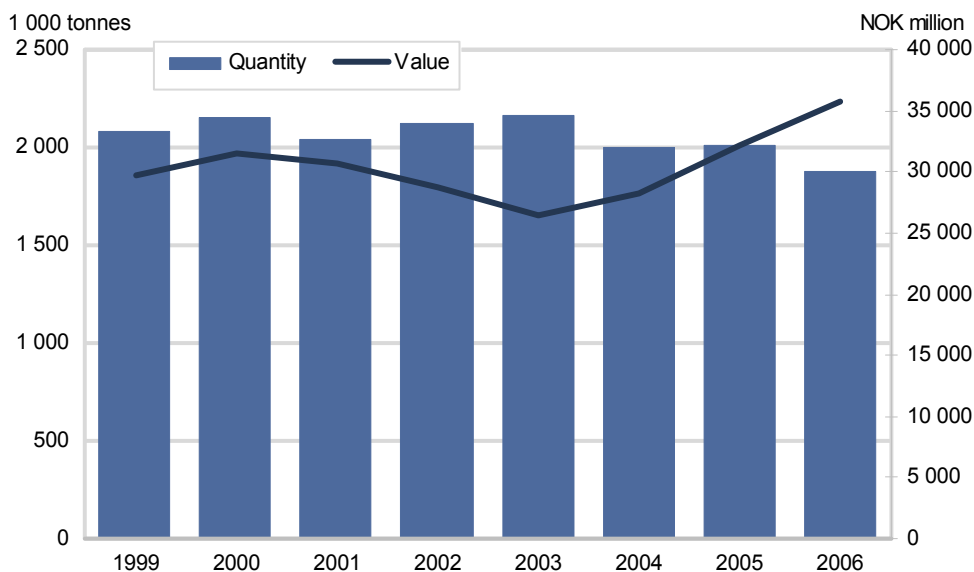
*Coherence with other statistics* The statistics in this chapter are based on figures from the Division for Energy and Industrial Production and the Division for External Trade. More information about these statistics is available on the Internet: [www.ssb.no/english/subjects/10/07/](http://www.ssb.no/english/subjects/10/07/) og [www.ssb.no/english/subjects/09/05/](http://www.ssb.no/english/subjects/09/05/).

**Figure 12. Establishments<sup>1</sup> and employees in fish processing industry. 1998-2006**



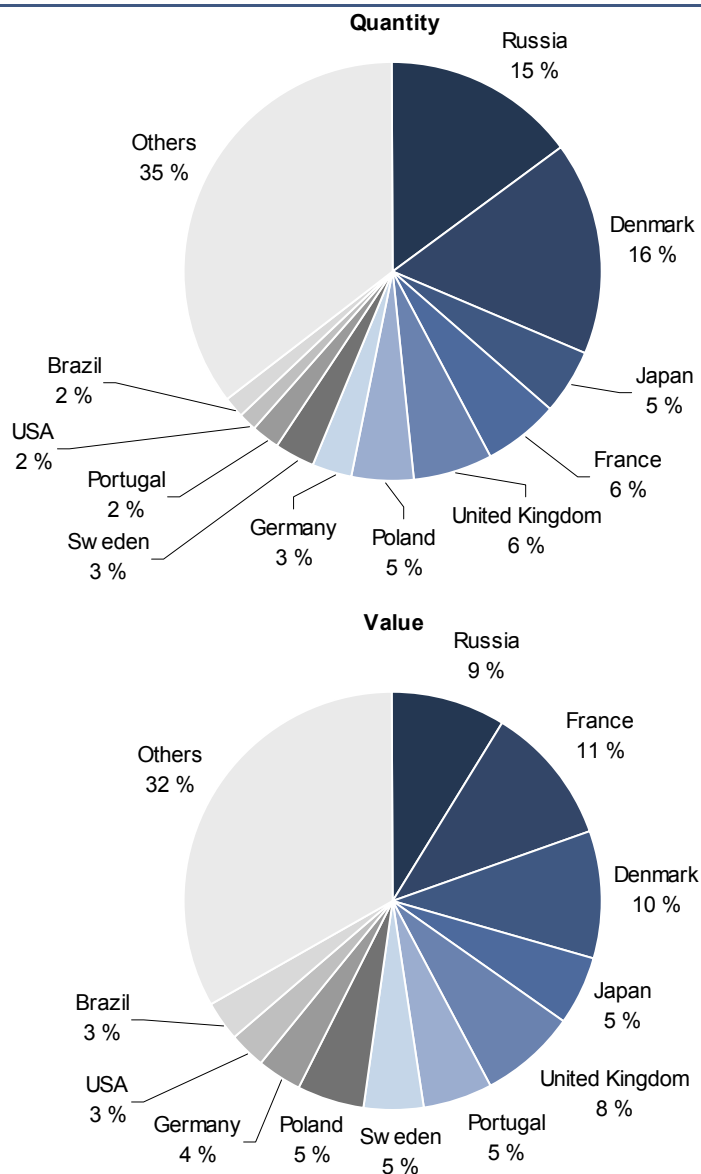
<sup>1</sup> Inclusive sole proprietors.  
Source: Statistics Norway and The Directorate of Fisheries.

**Figure 13 Export of fish and fish products. 1999-2006**



Source: Statistics Norway and The Directorate of Fisheries.

**Figure 14. Export of fish and fish products, by country of destination. 2006. Per cent.**



Source: NOS External Trade

**21. Establishments<sup>1</sup> and employed persons in fish processing industry, by industrial subclass. 1998-2006**

| Industrial subclass   | 1998          | 1999          | 2000          | 2001          | 2002          | 2003          | 2004          | 2005         | 2006         |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|
| <b>Establishments, total .....</b>                                | <b>663</b>    | <b>638</b>    | <b>657</b>    | <b>643</b>    | <b>645</b>    | <b>627</b>    | <b>616</b>    | <b>583</b>   | <b>558</b>   |
| <b>Employed persons, total .....</b>                              | <b>13 080</b> | <b>12 910</b> | <b>12 404</b> | <b>12 147</b> | <b>12 039</b> | <b>11 029</b> | <b>10 268</b> | <b>9 369</b> | <b>8 787</b> |
| <b>Salting, drying and smoking of fish</b>                        |               |               |               |               |               |               |               |              |              |
| Establishments .....  | 240           | 235           | 234           | 224           | 214           | 190           | 183           | 173          | 163          |
| Employed persons .....  | 3 297         | 3 316         | 2 949         | 2 822         | 2 532         | 2 008         | 1 975         | 1 794        | 1 958        |
| <b>Freezing of fish</b>   |               |               |               |               |               |               |               |              |              |
| Establishments .....  | 135           | 132           | 138           | 130           | 135           | 130           | 124           | 117          | 108          |
| Employed persons .....  | 6 145         | 5 872         | 5 790         | 5 648         | 5 555         | 5 051         | 4 464         | 4 152        | 3 773        |
| <b>Canning of fish and fish products</b>                          |               |               |               |               |               |               |               |              |              |
| Establishments .....  | 26            | 21            | 19            | 16            | 16            | 16            | 13            | 12           | 9            |
| Employed persons .....  | 532           | 454           | 458           | 399           | 383           | 390           | 328           | 292          | 227          |
| <b>Manufacture of fish oil, fish meal and other fish products</b> |               |               |               |               |               |               |               |              |              |
| Establishments .....  | 262           | 250           | 266           | 273           | 280           | 291           | 296           | 281          | 278          |
| Employed persons .....  | 3 106         | 3 268         | 3 207         | 3 278         | 3 569         | 3 580         | 3 501         | 3 131        | 2 779        |

<sup>1</sup>Inclusive sole proprietor.

Source: NOS Manufacturing Statistics.

**22. Establishments<sup>1</sup>, employed persons, value added etc. in fish processing industry, by industrial subclass and county. 2006**

| Industrial subclass   | County/region | Establishments | Employed persons | Compensation of employees | Gross value of production | Value added  | Gross investment |
|---|---------------|----------------|------------------|---------------------------|---------------------------|--------------|------------------|
| NOK million   |               |                |                  |                           |                           |              |                  |
| <b>Establishments, total</b>                                      |               | <b>558</b>     | <b>8 787</b>     | <b>3 214</b>              | <b>30 323</b>             | <b>8 014</b> | <b>863</b>       |
| <b>Salting, drying and smoking of fish</b>                        |               |                |                  |                           |                           |              |                  |
| Establishments, total   |               | 163            | 1 958            | 702                       | 6 753                     | 1 680        | 148              |
| Skagerrakkysten mv. <sup>2</sup>                                  |               | 1              | 6                | :                         | :                         | :            | :                |
| Rogaland  |               | 4              | 5                | 0                         | 3                         | 1            | 0                |
| Hordaland   |               | 7              | 94               | 43                        | 249                       | 105          | 25               |
| Sogn og Fjordane  |               | 2              | 21               | :                         | :                         | :            | :                |
| Møre og Romsdal   |               | 45             | 764              | 284                       | 3 241                     | 607          | 55               |
| Sør-Trøndelag   |               | 7              | 77               | 28                        | 241                       | 70           | 13               |
| Nord-Trøndelag  |               | 3              | 76               | 27                        | 107                       | 35           | 5                |
| Nordland  |               | 62             | 487              | 166                       | 1 648                     | 423          | 28               |
| Troms   |               | 16             | 292              | 102                       | 757                       | 327          | 7                |
| Finmark Finnmark  |               | 16             | 136              | 46                        | 466                       | 88           | 17               |
| <b>Freezing of fish</b>   |               |                |                  |                           |                           |              |                  |
| Establishments, total   |               | 108            | 3 773            | 1 469                     | 14 189                    | 2 994        | 495              |
| Skagerrakkysten mv. <sup>2</sup>                                  |               | 6              | 204              | 120                       | 482                       | 174          | 10               |
| Rogaland  |               | 11             | 197              | 76                        | 760                       | 114          | 17               |
| Hordaland   |               | 8              | 390              | 152                       | 905                       | 217          | 85               |
| Sogn og Fjordane  |               | 13             | 388              | 147                       | 737                       | 166          | 71               |
| Møre og Romsdal   |               | 21             | 629              | 293                       | 5 034                     | 1 114        | 76               |
| Sør-Trøndelag   |               | 5              | 347              | 125                       | 2 012                     | 257          | 33               |
| Nord-Trøndelag  |               | 2              | 30               | :                         | :                         | :            | :                |
| Nordland  |               | 20             | 875              | :                         | :                         | :            | :                |
| Troms   |               | 12             | 257              | 93                        | 992                       | 151          | 37               |
| Finmark Finnmark  |               | 10             | 456              | 138                       | 856                       | 257          | 30               |
| <b>Canning of fish and fish products</b>                          |               |                |                  |                           |                           |              |                  |
| Establishments, total   |               | 9              | 277              | 109                       | 477                       | 185          | 6                |
| Skagerrakkysten mv. <sup>2</sup>                                  |               | 1              | 59               | :                         | :                         | :            | :                |
| Rogaland  |               | 1              | 101              | :                         | :                         | :            | :                |
| Hordaland   |               | 2              | 31               | :                         | :                         | :            | :                |
| Sogn og Fjordane  |               | 1              | 52               | :                         | :                         | :            | :                |
| Møre og Romsdal   |               | 1              | 8                | :                         | :                         | :            | :                |
| Sør-Trøndelag   |               | 2              | 25               | :                         | :                         | :            | :                |
| Nordland  |               | 1              | 1                | :                         | :                         | :            | :                |
| Troms   |               | 0              | 0                | :                         | :                         | :            | :                |
| Finmark Finnmark  |               | 0              | 0                | :                         | :                         | :            | :                |
| <b>Manufacture of fish oil, fish meal and other fish products</b> |               |                |                  |                           |                           |              |                  |
| Establishments, total   |               | 278            | 2 779            | 934                       | 8 904                     | 3 154        | 213              |
| Skagerrakkysten mv. <sup>2</sup>                                  |               | 44             | 484              | 147                       | 1 238                     | 225          | 12               |
| Rogaland  |               | 30             | 320              | 136                       | 2 962                     | 1 216        | -57              |
| Hordaland   |               | 28             | 411              | 134                       | 646                       | 250          | 25               |
| Sogn og Fjordane  |               | 19             | 112              | 31                        | 438                       | 130          | 25               |
| Møre og Romsdal   |               | 33             | 294              | 98                        | 863                       | 179          | 51               |
| Sør-Trøndelag   |               | 18             | 258              | 108                       | 719                       | 437          | 85               |
| Nord-Trøndelag  |               | 6              | 169              | 49                        | 444                       | 107          | 3                |
| Nordland  |               | 54             | 453              | 151                       | 1 076                     | 419          | 52               |
| Troms   |               | 21             | 162              | 49                        | 276                       | 153          | 6                |
| Finmark Finnmark  |               | 25             | 116              | 32                        | 242                       | 39           | 11               |

<sup>1</sup>Inclusive sole proprietors. <sup>2</sup>Comprising the counties: Østfold, Akershus, Oslo, Hedmark, Oppland, Buskerud, Vestfold, Telemark, Aust-Agder and Vest-Agder.  
Source: NOS Manufacturing Statistics.

**23.a. Export of fish and fish products, by country of destination and commodity group<sup>1</sup>. 1999-2006. NOK million**

| Commodity group  | Export, total | EU countries, total | Of which |         |          |                |         | Sweden  | Germany |
|--|---------------|---------------------|----------|---------|----------|----------------|---------|---------|---------|
|  |               |                     | Denmark  | France  | Portugal | United Kingdom |         |         |         |
| 1999   | 29 740.4      | 18 105.4            | 3 020.8  | 2 669.1 | 2 269.4  | 2 710.0        | 1 447.1 | 1 722.2 |         |
| 2000   | 31 510.8      | 18 328.0            | 3 663.4  | 2 704.4 | 1 765.5  | 2 691.7        | 1 636.9 | 1 656.1 |         |
| 2001   | 30 645.5      | 16 930.5            | 3 032.6  | 2 340.2 | 1 863.6  | 2 204.0        | 1 678.2 | 1 460.7 |         |
| 2002   | 28 718.5      | 15 475.2            | 2 941.9  | 2 190.8 | 1 733.1  | 2 002.9        | 1 507.1 | 1 389.7 |         |
| 2003   | 26 395.3      | 14 851.7            | 3 071.8  | 2 311.1 | 1 405.6  | 1 501.0        | 1 376.8 | 1 416.9 |         |
| 2004   | 28 273.6      | 15 657.3            | 2 974.9  | 2 464.4 | 1 687.8  | 1 583.7        | 1 467.5 | 1 444.9 |         |
| 2005   | 32 188.3      | 19 058.5            | 3 051.3  | 3 062.1 | 1 669.7  | 2 060.9        | 1 576.5 | 1 325.7 |         |
| 2006   | 35 727.6      | 22 762.0            | 3 483.2  | 3 846.2 | 1 807.5  | 2 725.4        | 1 698.8 | 1 301.4 |         |
| <b>2006</b>  |               |                     |          |         |          |                |         |         |         |
| Reared salmon, fresh, chilled or frozen                            | 14 169.0      | 10 907.5            | 1 865.9  | 2 482.6 | 133.4    | 1 062.0        | 452.0   | 612.7   |         |
| Herring and sprat, fresh, chilled or frozen, incl. fillets         | 2 289.9       | 798.8               | 197.8    | 19.1    | -        | 43.8           | 2.9     | 99.3    |         |
| Other fresh or chilled fish, incl. fillets                         | 3 770.9       | 3 229.1             | 751.7    | 718.5   | 19.8     | 469.2          | 333.6   | 148.3   |         |
| Other frozen fish, excl. fillets                                   | 4 517.1       | 856.9               | 91.6     | 15.0    | 119.6    | 186.3          | 15.4    | 50.5    |         |
| Frozen fillets of fish, excl. herring                              | 2 498.8       | 1 788.7             | 86.1     | 384.3   | 0.6      | 619.8          | 287.7   | 270.2   |         |
| Salted herring excl. fillets                                       | 8.5           | 4.8                 | 0.3      | 0.3     | -        | 1.3            | 0.6     | 0.4     |         |
| Other salted fish, incl. fillets (also fillets of herring)         | 1 334.5       | 1 262.5             | 50.8     | 26.1    | 501.5    | 4.6            | 69.7    | 11.2    |         |
| Stockfish (dried fish)   | 597.8         | 471.1               | 4.3      | 3.3     | 0.4      | 13.5           | 0.2     | 1.5     |         |
| Klipfish (salted and dried)  | 2 977.5       | 1 290.6             | 0.7      | 72.4    | 1 029.6  | 15.4           | 1.5     | 14.8    |         |
| Crustaceans and molluscs, not canned                               | 480.6         | 290.6               | 68.3     | 45.4    | 0.1      | 19.0           | 101.3   | 5.2     |         |
| Oil of herring and other fish                                      | 344.4         | 153.2               | 8.4      | 15.2    | -        | 56.6           | 4.2     | 8.6     |         |
| Fish liver oil, excl. waste oil                                    | 84.3          | 36.2                | 6.3      | 1.1     | -        | 5.2            | 1.4     | 1.5     |         |
| Fish, processed or preserved incl. caviare and caviare substitutes | 443.2         | 324.9               | 53.3     | 15.1    | 0.0      | 2.5            | 183.7   | 3.8     |         |
| Crustaceans and molluscs, processed or preserved                   | 467.2         | 444.9               | 18.2     | 10.8    | 0.0      | 133.4          | 191.4   | 4.2     |         |
| Meal and powder of fish, crustaceans or molluscs                   | 390.3         | 334.1               | 114.2    | 16.4    | 1.2      | 67.3           | 20.4    | 12.8    |         |
| Other products   | 1 353.6       | 568.3               | 165.5    | 20.4    | 1.3      | 25.6           | 32.9    | 56.2    |         |

<sup>1</sup> See appendix G.

Source: NOS External Trade.

**23.b. Export of fish and fish products, by country of destination and commodity group<sup>1</sup>. 1999-2006. NOK million**

| Commodity group  | Export, total | Countries, except EU-countries, total | Of which |         |         |         |         |
|--|---------------|---------------------------------------|----------|---------|---------|---------|---------|
|  |               |                                       | Japan    | Russia  | Poland  | USA     | Brazil  |
| 1999   | 29 740.4      | 11 634.9                              | 4 408.2  | 766.3   | 789.7   | 1 351.4 | 797.5   |
| 2000   | 31 510.8      | 13 182.3                              | 4 223.5  | 1 174.1 | 935.0   | 1 390.5 | 913.1   |
| 2001   | 30 645.5      | 13 715.0                              | 4 105.5  | 1 548.1 | 1 198.1 | 1 121.2 | 893.0   |
| 2002   | 28 718.5      | 13 243.3                              | 3 699.3  | 1 834.0 | 805.9   | 1 296.0 | 663.0   |
| 2003   | 26 395.3      | 11 543.6                              | 2 516.0  | 1 975.9 | 832.4   | 1 045.3 | 487.8   |
| 2004   | 28 273.6      | 12 616.3                              | 2 612.3  | 2 538.3 | 949.7   | 855.0   | 717.4   |
| 2005   | 32 188.3      | 13 129.7                              | 2 633.9  | 3 735.9 | 1 457.8 | 854.6   | 748.3   |
| 2006   | 35 727.6      | 12 965.6                              | 1 901.8  | 3 160.9 | 1 796.3 | 1 052.7 | 1 033.9 |
| <b>2006</b>  |               |                                       |          |         |         |         |         |
| Reared salmon, fresh, chilled or frozen                            | 14 169.0      | 3 261.6                               | 592.8    | 1 057.0 | 1 163.2 | 79.6    | -       |
| Herring and sprat, fresh, chilled or frozen, incl. fillets         | 2 289.9       | 1 491.1                               | 41.4     | 795.4   | 187.7   | 8.8     | 3.3     |
| Other fresh or chilled fish, incl. fillets                         | 3 770.9       | 541.8                                 | 105.4    | 145.6   | 164.2   | 142.4   | 0.0     |
| Other frozen fish, excl. fillets                                   | 4 517.1       | 3 660.3                               | 881.2    | 849.8   | 141.5   | 196.2   | 0.5     |
| Frozen fillets of fish, excl. herring                              | 2 498.8       | 710.1                                 | 183.6    | 18.6    | 20.8    | 278.0   | 0.2     |
| Salted herring excl. fillets                                       | 8.5           | 3.8                                   | -        | -       | -       | 0.1     | -       |
| Other salted fish, incl. fillets (also fillets of herring)         | 1 334.5       | 72.0                                  | 3.0      | 0.3     | 1.9     | 6.2     | 8.5     |
| Stockfish (dried fish)   | 597.8         | 126.7                                 | 0.0      | 0.0     | 1.2     | 18.7    | 1.7     |
| Klipfish (salted and dried)  | 2 977.5       | 1 686.9                               | 0.1      | -       | -       | 30.9    | 1 017.0 |
| Crustaceans and molluscs, not canned                               | 480.6         | 189.9                                 | 37.6     | 2.1     | 0.3     | 11.6    | -       |
| Oil of herring and other fish                                      | 344.4         | 191.2                                 | 0.3      | 0.4     | 1.0     | 118.5   | 0.8     |
| Fish liver oil, excl. waste oil                                    | 84.3          | 48.1                                  | -        | 0.4     | 1.2     | 43.9    | -       |
| Fish, processed or preserved incl. caviare and caviare substitutes | 443.2         | 118.4                                 | 8.3      | 6.5     | 9.4     | 62.0    | 0.1     |
| Crustaceans and molluscs, processed or preserved                   | 467.2         | 22.3                                  | 0.0      | 1.2     | 0.3     | -       | -       |
| Meal and powder of fish, crustaceans or molluscs                   | 390.3         | 56.2                                  | 0.1      | 0.8     | 0.7     | 2.7     | 1.5     |
| Other products   | 1 353.6       | 785.3                                 | 48.1     | 282.8   | 102.9   | 53.3    | 0.3     |

<sup>1</sup> See appendix G.

Source: NOS External Trade.

**24.a. Export of fish and fish products, by country of destination and commodity group<sup>1</sup>. 1999-2006. 1 000 tonnes**

| Commodity group  | Export, total | EU countries, total | Of which |        |          |                |        |         |
|--|---------------|---------------------|----------|--------|----------|----------------|--------|---------|
|  |               |                     | Denmark  | France | Portugal | United Kingdom | Sweden | Germany |
| 1999 .....   | 2 079.4       | 1 014.3             | 290.1    | 119.3  | 59.5     | 160.0          | 57.2   | 101.7   |
| 2000 .....   | 2 155.2       | 959.5               | 314.0    | 106.9  | 42.7     | 156.4          | 61.3   | 75.1    |
| 2001 .....   | 2 044.1       | 914.4               | 305.0    | 91.0   | 44.6     | 135.6          | 62.5   | 69.9    |
| 2002 .....   | 2 118.8       | 983.5               | 386.1    | 91.7   | 50.3     | 127.7          | 61.5   | 72.9    |
| 2003 .....   | 2 168.2       | 1 063.7             | 496.1    | 92.4   | 40.3     | 97.1           | 58.1   | 72.7    |
| 2004 .....   | 1 997.6       | 951.1               | 388.1    | 96.7   | 45.4     | 82.0           | 58.9   | 71.2    |
| 2005 .....   | 2 014.2       | 1 016.9             | 334.4    | 106.2  | 42.4     | 91.6           | 58.5   | 63.6    |
| 2006 .....   | 1 873.8       | 1 028.6             | 307.1    | 111.1  | 41.8     | 114.5          | 53.7   | 55.8    |
| <b>2006</b>  |               |                     |          |        |          |                |        |         |
| Reared salmon, fresh, chilled or frozen                            | 443.0         | 342.9               | 60.4     | 76.8   | 4.0      | 33.8           | 13.8   | 19.1    |
| Herring and sprat, fresh, chilled or frozen, incl. fillets .....   | 444.5         | 159.5               | 69.0     | 2.5    | -        | 13.6           | 0.8    | 15.1    |
| Other fresh or chilled fish, incl. fillets                         | 120.3         | 97.1                | 29.1     | 16.2   | 0.7      | 18.5           | 7.4    | 4.0     |
| Other frozen fish, excl. fillets ...                               | 322.7         | 57.4                | 3.9      | 0.8    | 5.4      | 11.0           | 0.7    | 2.8     |
| Frozen fillets of fish, excl. herring                              | 56.7          | 40.2                | 1.9      | 6.9    | 0.0      | 15.4           | 5.4    | 6.1     |
| Salted herring excl. fillets .....                                 | 1.1           | 0.6                 | 0.0      | 0.0    | -        | 0.2            | 0.1    | 0.1     |
| Other salted fish, incl. fillets (also fillets of herring) .....   | 37.6          | 34.2                | 1.7      | 1.0    | 13.0     | 0.2            | 1.9    | 0.6     |
| Stockfish (dried fish) .....                                       | 6.0           | 3.4                 | 0.1      | 0.0    | 0.0      | 0.1            | 0.0    | 0.0     |
| Klipfish (salted and dried) .....                                  | 76.8          | 24.4                | 0.0      | 1.5    | 18.6     | 0.5            | 0.0    | 0.3     |
| Crustaceans and molluscs, not canned                               | 22.4          | 8.8                 | 2.3      | 1.7    | 0.0      | 0.4            | 2.8    | 0.3     |
| Oil of herring and other fish .....                                | 33.2          | 18.7                | 2.4      | 1.5    | -        | 7.0            | 0.1    | 0.3     |
| Fish liver oil, excl. waste oil .....                              | 2.3           | 0.9                 | 0.1      | 0.0    | -        | 0.3            | 0.0    | 0.1     |
| Fish, processed or preserved incl. caviare and caviare substitutes | 20.2          | 18.0                | 3.7      | 0.3    | 0.0      | 0.0            | 10.1   | 0.1     |
| Crustaceans and molluscs, processed or preserved .....             | 12.0          | 11.5                | 0.5      | 0.2    | 0.0      | 3.5            | 4.9    | 0.1     |
| Meal and powder of fish, crustaceans or molluscs .....             | 44.1          | 40.0                | 15.5     | 0.3    | 0.0      | 8.0            | 2.1    | 1.1     |
| Other products .....   | 231.0         | 170.9               | 116.4    | 1.0    | 0.1      | 1.9            | 3.6    | 5.9     |

<sup>1</sup> See appendix G.

Source: NOS External Trade.

**24.b. Export of fish and fish products, by country of destination and commodity group<sup>1</sup>. 1999-2006. 1 000 tonnes**

| Commodity group  | Export, total | Countries, except EU-countries, total | Of which |        |        |      |        |
|--|---------------|---------------------------------------|----------|--------|--------|------|--------|
|  |               |                                       | Japan    | Russia | Poland | USA  | Brazil |
| 1999 .....   | 2 079.4       | 1 065.1                               | 281.9    | 182.8  | 156.9  | 37.8 | 20.1   |
| 2000 .....   | 2 155.2       | 1 195.7                               | 262.0    | 233.5  | 154.9  | 36.9 | 26.1   |
| 2001 .....   | 2 044.1       | 1 129.7                               | 258.3    | 216.9  | 129.5  | 28.4 | 23.7   |
| 2002 .....   | 2 118.8       | 1 135.4                               | 254.1    | 242.2  | 83.4   | 48.6 | 18.3   |
| 2003 .....   | 2 168.2       | 1 104.5                               | 175.3    | 288.1  | 84.2   | 36.8 | 18.1   |
| 2004 .....   | 1 997.6       | 1 046.5                               | 151.2    | 285.1  | 65.7   | 29.1 | 26.0   |
| 2005 .....   | 2 014.2       | 997.3                                 | 139.1    | 347.8  | 82.3   | 24.3 | 23.7   |
| 2006 .....   | 1 873.8       | 845.2                                 | 95.1     | 278.7  | 90.1   | 29.5 | 28.8   |
| <b>2006</b>  |               |                                       |          |        |        |      |        |
| Reared salmon, fresh, chilled or frozen                            | 443.0         | 100.1                                 | 18.3     | 32.9   | 37.4   | 2.1  | -      |
| Herring and sprat, fresh, chilled or frozen, incl. fillets .....   | 444.5         | 285.0                                 | 5.8      | 149.8  | 23.6   | 1.4  | 0.9    |
| Other fresh or chilled fish, incl. fillets ...                     | 120.3         | 23.2                                  | 2.6      | 14.5   | 4.4    | 2.4  | 0.0    |
| Other frozen fish, excl. fillets .....                             | 322.7         | 265.3                                 | 63.2     | 45.1   | 10.6   | 9.5  | 0.0    |
| Frozen fillets of fish, excl. herring                              | 56.7          | 16.4                                  | 3.4      | 0.8    | 0.9    | 4.8  | 0.0    |
| Salted herring excl. fillets .....                                 | 1.1           | 0.5                                   | -        | -      | -      | 0.0  | -      |
| Other salted fish, incl. fillets (also fillets of herring) .....   | 37.6          | 3.4                                   | 0.1      | 0.0    | 0.0    | 0.1  | 0.2    |
| Stockfish (dried fish) .....                                       | 6.0           | 2.6                                   | 0.0      | 0.0    | 0.0    | 0.2  | 0.1    |
| Klipfish (salted and dried) .....                                  | 76.8          | 52.3                                  | 0.0      | -      | -      | 0.6  | 27.5   |
| Crustaceans and molluscs, not canned                               | 22.4          | 13.6                                  | 0.5      | 0.1    | 0.0    | 0.2  | -      |
| Oil of herring and other fish .....                                | 33.2          | 14.5                                  | 0.1      | 0.0    | 0.0    | 5.5  | 0.0    |
| Fish liver oil, excl. waste oil .....                              | 2.3           | 1.4                                   | -        | 0.0    | 0.1    | 1.3  | -      |
| Fish, processed or preserved incl. caviare and caviare substitutes | 20.2          | 2.2                                   | 0.1      | 0.1    | 0.6    | 0.9  | 0.0    |
| Crustaceans and molluscs, processed or preserved .....             | 12.0          | 0.5                                   | 0.0      | 0.0    | 0.0    | -    | -      |
| Meal and powder of fish, crustaceans or molluscs .....             | 44.1          | 4.1                                   | 0.0      | 0.0    | 0.0    | 0.0  | 0.0    |
| Other products .....   | 231.0         | 60.1                                  | 1.0      | 35.1   | 12.3   | 0.7  | 0.0    |

<sup>1</sup> See appendix G.

Source: NOS External Trade.

**25. Import of fish and fish products<sup>1</sup> from various countries. Quantity and value. 1991-2006**

|              | Imports,<br>total | EU<br>countries,<br>total | Of which |                   |                     | Other<br>countries,<br>total | Of which |                     |         |       |
|--------------|-------------------|---------------------------|----------|-------------------|---------------------|------------------------------|----------|---------------------|---------|-------|
|              |                   |                           | Denmark  | United<br>Kingdom | Sweden <sup>2</sup> |                              | Peru     | Russia <sup>3</sup> | Iceland | USA   |
| 1 000 tonnes |                   |                           |          |                   |                     |                              |          |                     |         |       |
| 1991 .....   | 283.5             | 140.3                     | 63.5     | 58.9              | 5.7                 | 156.0                        | ..       | 49.0                | 19.3    | 23.1  |
| 1992 .....   | 307.8             | 126.5                     | 63.3     | 45.5              | 7.4                 | 193.8                        | ..       | 90.3                | 43.2    | 7.4   |
| 1993 .....   | 370.1             | 107.7                     | 46.0     | 41.7              | 9.9                 | 305.5                        | ..       | 107.0               | 76.5    | 3.9   |
| 1994 .....   | 403.3             | 139.0                     | 79.3     | 41.1              | 7.9                 | 357.6                        | 63.2     | 97.6                | 40.7    | 3.3   |
| 1995 .....   | 534.4             | 187.2                     | 115.8    | 42.4              | 5.3                 | 347.3                        | 76.8     | 115.9               | 45.9    | 4.2   |
| 1996 .....   | 567.8             | 208.9                     | 97.2     | 71.2              | 10.1                | 359.0                        | 40.4     | 111.9               | 78.2    | 6.6   |
| 1997 .....   | 705.2             | 264.2                     | 139.6    | 80.6              | 26.3                | 441.0                        | 117.2    | 114.4               | 112.3   | 7.6   |
| 1998 .....   | 630.1             | 319.3                     | 153.7    | 120.5             | 15.4                | 310.7                        | 10.4     | 99.4                | 82.4    | 54.8  |
| 1999 .....   | 729.1             | 294.4                     | 128.7    | 132.9             | 11.8                | 434.8                        | 62.9     | 116.2               | 113.2   | 40.6  |
| 2000 .....   | 897.6             | 318.7                     | 136.2    | 142.2             | 13.5                | 578.9                        | 201.9    | 144.7               | 125.1   | 21.1  |
| 2001 .....   | 814.2             | 320.5                     | 127.9    | 134.4             | 15.9                | 493.7                        | 87.6     | 121.0               | 154.7   | 35.5  |
| 2002 .....   | 745.7             | 285.2                     | 150.0    | 86.9              | 13.0                | 460.5                        | 88.2     | 170.0               | 91.5    | 20.6  |
| 2003 .....   | 663.0             | 280.5                     | 126.7    | 70.4              | 44.6                | 382.5                        | 67.2     | 83.5                | 103.4   | 26.5  |
| 2004 .....   | 617.2             | 247.4                     | 124.4    | 67.5              | 14.9                | 369.8                        | 43.9     | 51.1                | 82.3    | 51.7  |
| 2005 .....   | 576.0             | 192.2                     | 100.1    | 40.5              | 8.3                 | 383.8                        | 160.4    | 32.2                | 69.6    | 16.4  |
| 2006 .....   | 577.9             | 203.8                     | 129.4    | 37.9              | 6.9                 | 374.0                        | 124.8    | 30.1                | 71.8    | 27.8  |
| NOK million  |                   |                           |          |                   |                     |                              |          |                     |         |       |
| 1991 .....   | 1 986.5           | 603.1                     | 379.1    | 148.7             | 81.7                | 1 584.3                      | ..       | 542.6               | 95.1    | 283.9 |
| 1992 .....   | 2 155.6           | 567.8                     | 384.6    | 104.6             | 109.5               | 1 720.0                      | ..       | 895.5               | 159.1   | 137.2 |
| 1993 .....   | 2 214.9           | 498.2                     | 346.3    | 79.6              | 120.3               | 1 891.2                      | ..       | 895.0               | 288.6   | 77.2  |
| 1994 .....   | 2 298.0           | 610.3                     | 449.9    | 88.4              | 104.1               | 1 958.2                      | 135.2    | 888.4               | 181.7   | 71.9  |
| 1995 .....   | 3 118.6           | 971.6                     | 625.9    | 130.9             | 97.4                | 2 147.0                      | 172.3    | 1 118.2             | 218.9   | 86.2  |
| 1996 .....   | 3 464.2           | 1 208.0                   | 555.6    | 334.9             | 132.4               | 2 256.2                      | 115.7    | 958.0               | 380.9   | 130.7 |
| 1997 .....   | 4 069.8           | 1 314.0                   | 656.0    | 362.1             | 150.4               | 2 755.8                      | 410.9    | 1 064.2             | 563.3   | 146.1 |
| 1998 .....   | 5 143.7           | 2 017.2                   | 892.0    | 718.7             | 128.9               | 3 126.6                      | 60.4     | 1 376.1             | 589.4   | 514.2 |
| 1999 .....   | 4 813.7           | 1 448.8                   | 712.7    | 444.3             | 117.7               | 3 364.9                      | 176.7    | 1 688.3             | 540.8   | 301.3 |
| 2000 .....   | 5 372.8           | 1 594.8                   | 629.3    | 635.4             | 140.9               | 3 778.2                      | 542.7    | 1 747.7             | 523.4   | 278.4 |
| 2001 .....   | 5 976.4           | 1 963.5                   | 698.0    | 797.5             | 166.5               | 4 012.9                      | 285.6    | 1 630.7             | 780.4   | 418.9 |
| 2002 .....   | 5 188.0           | 1 944.7                   | 916.1    | 610.4             | 133.9               | 3 243.2                      | 355.9    | 1 298.2             | 508.0   | 268.1 |
| 2003 .....   | 4 126.0           | 1 562.3                   | 719.2    | 391.4             | 166.7               | 2 563.8                      | 305.1    | 721.9               | 495.0   | 233.4 |
| 2004 .....   | 4 612.3           | 1 725.2                   | 787.0    | 397.3             | 213.3               | 2 887.1                      | 224.1    | 661.3               | 446.7   | 430.7 |
| 2005 .....   | 4 675.7           | 1 635.7                   | 748.5    | 310.4             | 191.2               | 3 040.0                      | 773.1    | 571.8               | 375.8   | 298.7 |
| 2006 .....   | 5 444.2           | 1 812.3                   | 1 016.7  | 295.0             | 155.5               | 3 631.9                      | 745.1    | 660.7               | 561.8   | 404.7 |

<sup>1</sup> Included products from fish farming, animal food and animal oil and fats. <sup>2</sup> Before 1995 figures for Sweden are included in the figures for other countries, total. As from 1995 figures for Sweden are included in the figures for EU-countries, total. <sup>3</sup> Sovjet Union up to and including 1992.

Source: NOS External Trade.

## 6. Profitability

### 6.1. Main results

Figures from the National Accounts show that the value added in the fisheries at basis prices was NOK 7 717 million in 2006. This is an increase of close to 4 per cent compared with the previous year. Operating surplus was NOK 5 747 million, up 11 per cent from 2005.

The Profitability Survey of the Directorate of Fisheries shows an average operating profit for vessels 8 metres and above of NOK 1 013 000 in 2006. This is the largest profit ever and up 7.5 per cent from 2005. The operating margin was 15.5 per cent, the same as in 2005. The survey also shows that vessels registered in Hordaland, and vessels 28 metres and above, in average have the biggest operating profit.

The operating margin in 2006 was the same as in the peak years 1998, 2001 and 2005 (figure 16). The development of the operating margin since 1990 has in general been positive. Main causes for this development have been large fish stocks and good prices of important species. A reduction of the fishing fleet with lower operating expenses and higher productivity is also a cause.

### 6.2. Statistics production

#### *Population*

The coverage of the National Accounts is defined by international guidelines of the System of National Accounts (SNA 1993), and the European System of Accounts (ESA 1995). The real accounts in current and constant prices give a structured overview of the supply and use of products (goods and services) in the economy. In addition, information on fixed assets is included, as well as wages etc. Furthermore, the real accounts provide the basis for the calculation of the Gross National Product (GNP) and other important macro economic measures.

The Profitability Survey of the Fishing Fleet covers Norwegian fishing vessels 8 metres and above operating on a whole year basis. The survey is based on the accounts from a sample of such fishing vessels. The vessels shall fulfil some conditions; to have landed catches in minimum 7 months, to have a minimum income from the catches and that the owner is work able.

#### *Data sources, collection of data, control and revision*

The calculation of the annual national accounts is based on statistics from several sources, such as the Structural Business Statistics for manufacturing and other industries, accounting statistics for general government and enterprises, statistics on wages and earnings, external trade statistics, household consumer surveys and labour statistics.

The annual national accounts for fish and fish products are mainly based on primary statistics collected by the Directorate of Fisheries.

The sources are critically evaluated and compared with alternative sources. In some areas, the statistics have to be adjusted in order to satisfy the requirements of the national accounts. In areas where the statistics are incomplete, assessments are essential. In the process of estimating national accounts data, the figures are critically evaluated and controlled in several steps.

The Profitability Survey of the Fishing Fleet is carried out by the Directorate of Fisheries. A mapping of which vessels are operating on a whole year basis is carried out in advance. The mapping is done with information from the Register of Norwegian Fishing Vessels, Register of Norwegian Fishing Licences and the Register of Landings. A sample of vessels from this mapping is asked to send in information from their accounts. Not all the owners respond to the request, while some of the information is of to poor quality to be used in the survey.



### 6.3. Concepts, variables and classifications

*Definitions* *The value added of an industry at basic prices* is calculated as output at basic prices less intermediate consumption at purchasers' prices.

*Operating profit* is operating revenues minus operating expenses.

*Operating margin* is operating profit/operating revenues \* 100.

*Standard classifications* The accounting systems of the Norwegian National Accounts are based on the international standards for national accounts, i.e. SNA 1993 and ESA 1995. The accounting system outlines the framework and contents for the production of national accounts statistics. In addition to accounting structure, the accounting system contains a number of groupings or classifications used in the national accounts, such as:

- Activity classification
- Classification of non-financial assets
- Product classification of national accounts
- Classification of individual consumption by purpose

### 6.4. Sources of error and uncertainty

*Measurement and processing errors* The national accounts are based on various statistical sources. The sources are either survey data from establishments, enterprises or households, or data from registers. National accounts statistics reflect the inaccuracy in the statistical sources and the methods of compilation. Weaknesses and inaccuracy in the statistical sources are normally described in the documentation of the relevant sources.

Fishermen sometimes misunderstand questions of the Profitability Survey, while errors in assessment during the revision also occur. The Directorate of Fisheries seeks to eliminate these errors and continuously improves the quality. The non-response of the survey in 2006 was 16 per cent. There is uncertainty because the statistics are based on a sample of vessels and not the whole population.

### 6.5. Comparability and coherence

*Comparability over time and space* The series NOS Fishery Statistics has published time series on national accounts since 1972. Users of national accounts figures must be aware that changes in the statistical systems etc. may lead to minor breaks in more detailed time series. As of the 2005-edition, figures from fish farming is no longer included in table 27. This times series is therefore not comparable with previous editions in NOS Fishery statistics.

Up to 2004 figures from The Fishing Sector Account was published in the series NOS Fishery statistics. The account was made for the Budget Commission of Fishery which was dissolved in 2004.

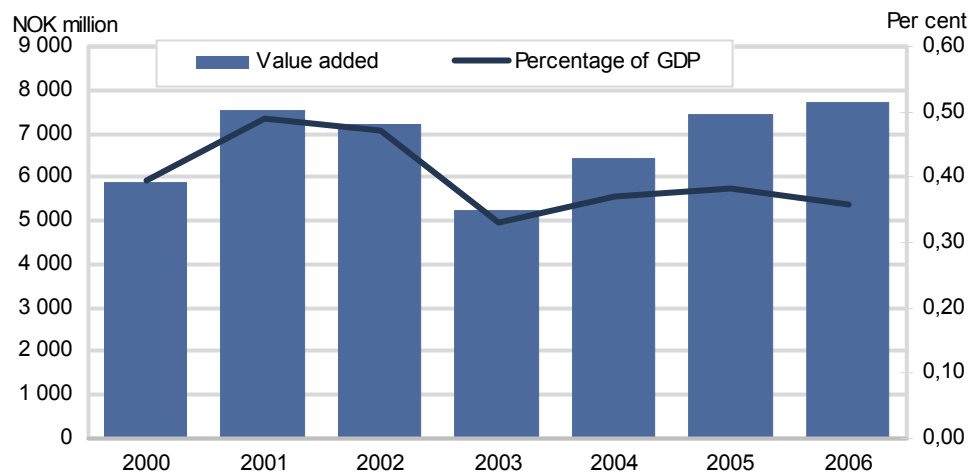
Figures from the Profitability Survey of the Fishing Fleet operating on a whole year basis has been published since 1977.

*Coherence with other statistics* The statistics of national accounts are worked out by the Division for National Accounts. More supplementary information about these statistics can be found on the Internet: <http://www.ssb.no/english/subjects/09/01/>

More details from the profitability survey of the fishing fleet can be found on the Internet:  
[http://www.fiskeridir.no/fiskeridir/fiskeri/statistikk/l\\_nnsomhetsunders\\_kelse\\_for\\_iskefl\\_ten](http://www.fiskeridir.no/fiskeridir/fiskeri/statistikk/l_nnsomhetsunders_kelse_for_iskefl_ten).

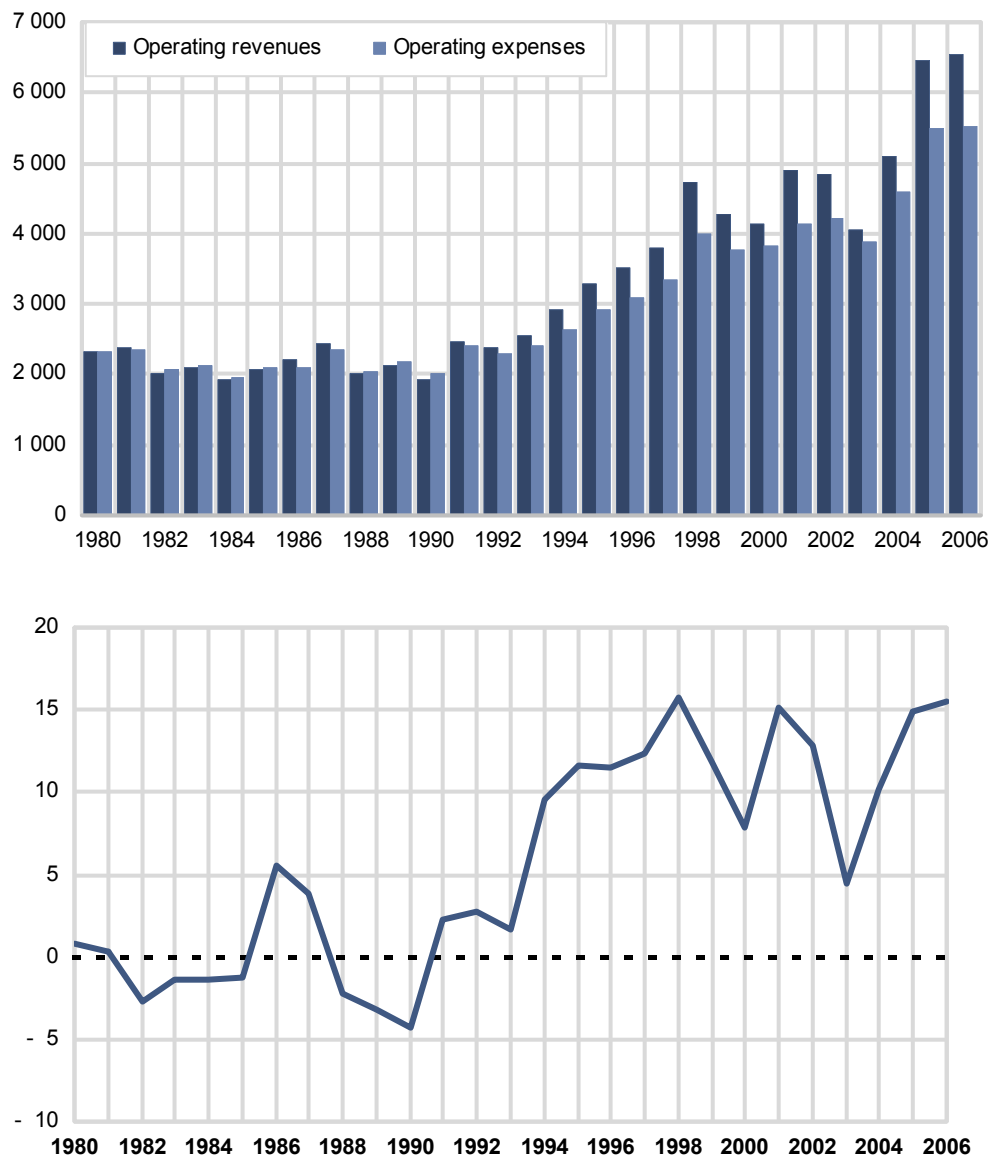
The survey was earlier published by the Budget Commission of Fishery, but as from 2004 this has been carried out by the Directorate of Fisheries. After the Budget Commission was dissolved, the Directorate has established a reference group to ensure the various users' need for data on profitability.

**Figure 15. Value added of fishery, and as percentage of gross national product (GNP). 2000-2006.**



Source: NOS National Accounts.

**Figure 16** Average operating revenues and -expenses<sup>1</sup>, and operating margin of whole-year operated fishing vessels 8 metres and above. 1980-2006.



<sup>1</sup> Operating revenues and -expenses are converted to NOK 2006 value by means of the Consumer Price Index  
 Source: The Directorate of Fisheries.

**26. National account figures for fisheries, 2000-2006\*. NOK million**

|   | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006* |
|---|-------|-------|-------|-------|-------|-------|-------|
| Value added .....                                       | 5 861 | 7 541 | 7 228 | 5 248 | 6 443 | 7 443 | 7 717 |
| -Consumption of fixed capital .....                     | 1 593 | 1 679 | 1 654 | 1 572 | 1 570 | 1 517 | 1 374 |
| -Taxes on production .....                              | 348   | 310   | 397   | 368   | 399   | 333   | 314   |
| + Subsidies on production .....                         | 151   | 205   | 202   | 230   | 171   | 142   | 297   |
| - Compensation of employees .....                       | 765   | 692   | 689   | 605   | 563   | 560   | 579   |
| Operating surplus .....                                 | 3 306 | 5 065 | 4 690 | 2 933 | 4 082 | 5 175 | 5 747 |
| Gross capital formation .....                           | 1 500 | 2 420 | 1 864 | 983   | 731   | 231   | 268   |
| Of which  |       |       |       |       |       |       |       |
| Fishing vessels .....                                   | 1 217 | 2 096 | 1 685 | 833   | 603   | 132   | ..    |
| Machinery and equipment .....                           | 283   | 324   | 179   | 150   | 128   | 99    | ..    |
| Utførte timeverk. Mill. Man-hours worked. Million ..... | 33    | 30    | 29    | 26    | 24    | 22    | 22    |
| Norwegian consumption of fish and fish products .....   | 7 584 | 7 640 | 7 908 | 8 240 | 8 243 | 8 891 | ..    |

Source: NOS National Accounts.

**27. Average operating results of whole-year operated fishing vessels 8 metres and above, by length of vessel, county and type of fishery, 2006. NOK**

|                              | Operating revenues | Operating expenses | Operating profit | Profit before extraordinary items |
|------------------------------|--------------------|--------------------|------------------|-----------------------------------|
| <b>Total .....</b>           | <b>6 551 700</b>   | <b>5 538 400</b>   | <b>1 013 300</b> | <b>681 400</b>                    |
| <b>Length of vessel</b>      |                    |                    |                  |                                   |
| 8 - 9,9 metres .....         | 541 900            | 495 500            | 46 400           | 39 100                            |
| 10 - 14,9 metres .....       | 1 448 800          | 1 304 100          | 144 700          | 88 600                            |
| 15 - 20,9 metres .....       | 3 095 300          | 2 716 300          | 379 000          | 257 900                           |
| 21 - 27,9 metres .....       | 8 722 100          | 7 738 700          | 983 400          | 299 800                           |
| 28 metres and over .....     | 33 815 500         | 27 849 200         | 5 966 300        | 4 340 300                         |
| <b>County of vessel</b>      |                    |                    |                  |                                   |
| Agder/Østlandet .....        | 2 157 700          | 1 957 500          | 200 200          | 117 700                           |
| Rogaland .....               | 5 144 500          | 4 495 500          | 649 000          | 298 600                           |
| Hordaland .....              | 20 178 300         | 15 798 900         | 4 388 400        | 3 312 800                         |
| Sogn og Fjordane .....       | 10 156 200         | 8 691 000          | 1 465 200        | 910 100                           |
| Møre og Romsdal .....        | 15 898 000         | 13 536 600         | 2 361 400        | 1 698 200                         |
| Trøndelag .....              | 2 783 100          | 2 304 100          | 479 000          | 309 800                           |
| Nordland .....               | 4 136 900          | 3 577 600          | 559 200          | 315 500                           |
| Troms .....                  | 4 658 100          | 3 928 800          | 729 300          | 542 100                           |
| Finnmark .....               | 4 211 800          | 3 611 400          | 600 400          | 350 500                           |
| <b>Demersal fish .....</b>   | <b>4 463 300</b>   | <b>3 902 900</b>   | <b>560 400</b>   | <b>345 500</b>                    |
| <b>Pelagic fishery .....</b> | <b>17 631 400</b>  | <b>14 215 200</b>  | <b>3 416 100</b> | <b>2 463 800</b>                  |

Source: The Directorate of Fisheries.

## Main groups of fish species

### Pelagic fish

Herring  
Sprat  
Capelin  
Norway pout  
Blue whiting  
Atlantic horse mackerel  
Sandeel  
Atlantic mackerel and others

### Codfishes

Atlantic cod  
Tusk  
Hake  
Ling  
Blue ling  
Haddock  
Saithe  
Pollack  
Whiting and others

### Flatfishes and other demersal fishes

Argentines  
Eel  
Wolffishes  
Redfish  
Lumpsucker  
Halibut  
European plaice  
Greenland halibut  
Witch flounder  
Common sole  
Common dab  
Lemon sole  
Brill  
Turbot  
Angler and others

### Deep-sea fishes

Picked dogfish  
Porbeagle  
Basking shark  
Skate, ray and others

### Crustaceans and molluscs

Crab  
King Crab  
Lobster  
Norway lobster  
Deep water prawn  
Mussels and others

*Unspecified<sup>1</sup>*

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<sup>1</sup> Seaweed is not included.

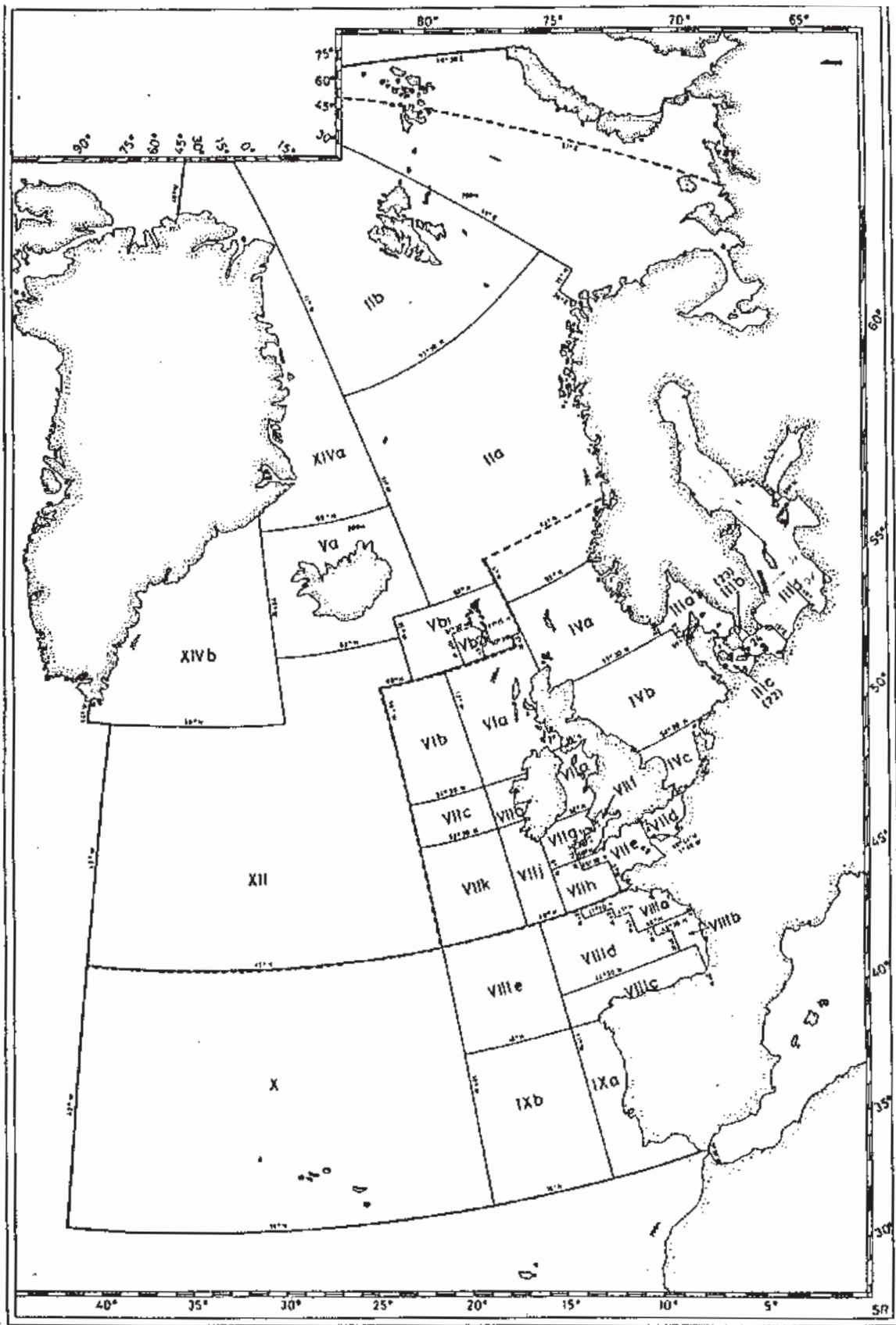
## Appendix B

A selection of conversion factors<sup>1</sup>Conversion factors to live weight<sup>2</sup>

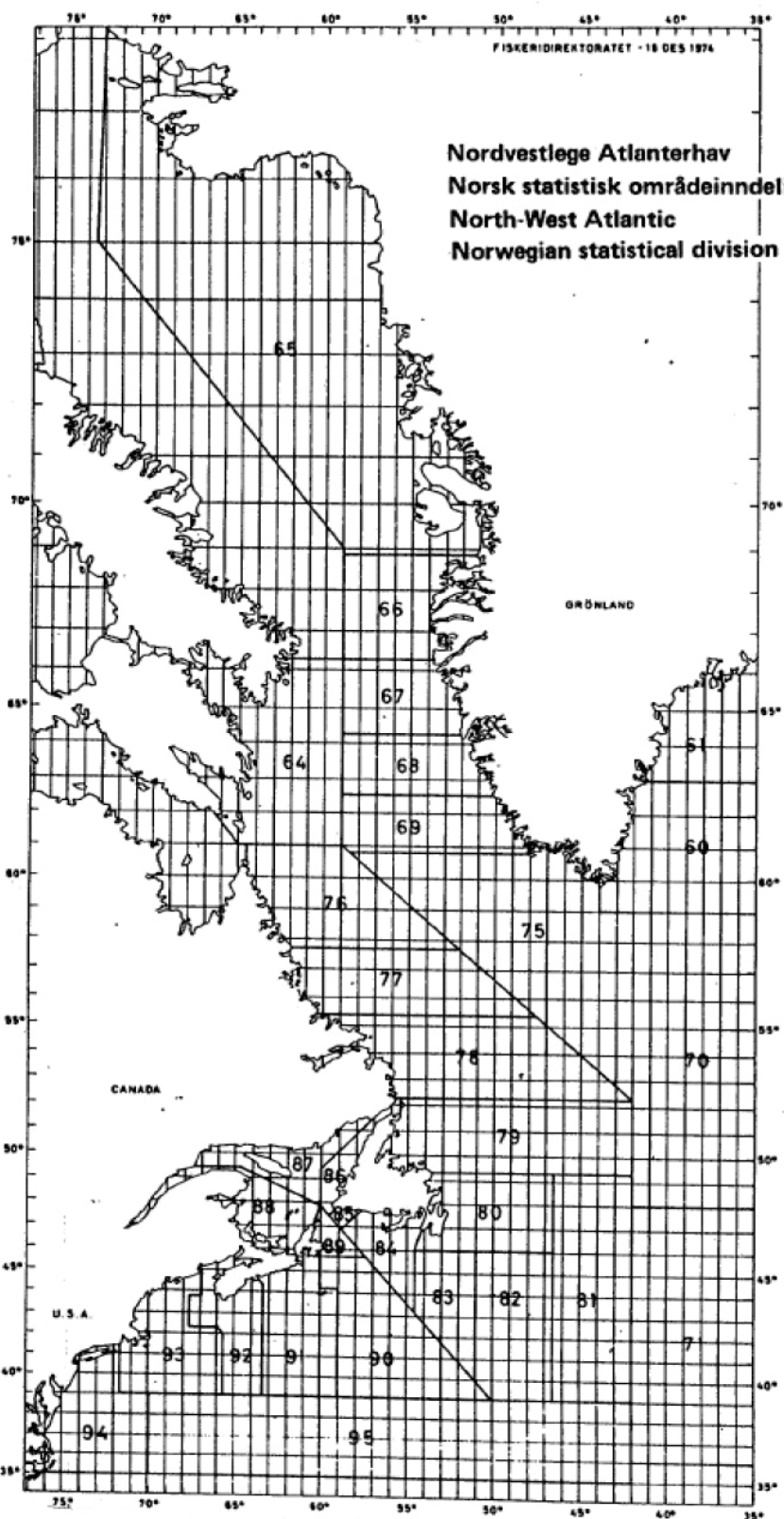
|                        | Condition by landing |                     |                                   |                             |                                  |                                | Salted |
|------------------------|----------------------|---------------------|-----------------------------------|-----------------------------|----------------------------------|--------------------------------|--------|
|                        | Gutted with head     | Gutted without head | Gutted without head and ear-bones | Fillets with skin and bones | Fillets without skin, with bones | Fillets without skin and bones |        |
| Halibut .....          | 1.10                 | 1.35                |                                   |                             |                                  |                                |        |
| Plaice .....           | 1.10                 | 1.20                |                                   |                             |                                  |                                |        |
| Greenland halibut..... | 1.10                 | 1.20                |                                   | 1.97                        | 1.97                             | 1.97                           |        |
| Witch .....            | 1.10                 | 1.20                |                                   |                             |                                  |                                |        |
| Other flatfish.....    | 1.10                 | 1.20                |                                   |                             |                                  |                                |        |
| Tusk .....             | 1.20                 | 1.40                |                                   | 2.55                        | 2.55                             | 2.55                           | 2.38   |
| Spawning cod .....     | 1.18                 | 1.50                | 1.80                              |                             |                                  |                                |        |
| Cod .....              | 1.18                 | 1.50                | 1.80                              | 2.60                        | 2.90                             | 3.25                           | 2.55   |
| Hake .....             | 1.20                 | 1.40                |                                   |                             |                                  |                                |        |
| Ling .....             | 1.20                 | 1.40                |                                   | 2.80                        | 2.80                             | 2.80                           | 2.38   |
| Blue ling .....        | 1.20                 | 1.40                |                                   | 2.80                        | 2.80                             | 2.80                           | 2.38   |
| Haddock .....          | 1.14                 | 1.40                | 1.65                              | 2.65                        | 2.95                             | 3.15                           | 2.38   |
| Saithe .....           | 1.20                 | 1.35                |                                   | 2.55                        | 2.80                             | 3.00                           | 2.30   |
| Pollack .....          | 1.15                 | 1.30                |                                   | 2.60                        | 2.60                             | 2.60                           | 2.21   |
| Whiting .....          | 1.20                 | 1.40                |                                   | 2.80                        | 2.80                             | 2.80                           |        |
| Catfish .....          | 1.10                 | 1.65                |                                   | 4.08                        | 4.08                             | 4.08                           |        |
| Redfish .....          | 1.20                 | 1.65                |                                   | 4.77                        | 4.77                             | 4.77                           | 2.80   |
| Monk .....             | 1.20                 | 2.80                |                                   |                             |                                  |                                |        |
| Tuna .....             | 1.00                 | 1.28                |                                   |                             |                                  |                                |        |
| Porbeagle .....        | 1.10                 | 1.30                |                                   |                             |                                  |                                |        |
| Picked dogfish .....   | 1.10                 | 1.30                |                                   |                             |                                  |                                |        |
| Squid .....            | 1.33                 | 2.00                |                                   |                             |                                  |                                |        |

<sup>1</sup> As from 1. February 2003. <sup>2</sup> The publication "Omregningsfaktorer fra levert produktvekt til rundvekt", issued by the Directorate of Fisheries, presents a complete survey of conversion factors.

### ICES – Fishery statistical divisions

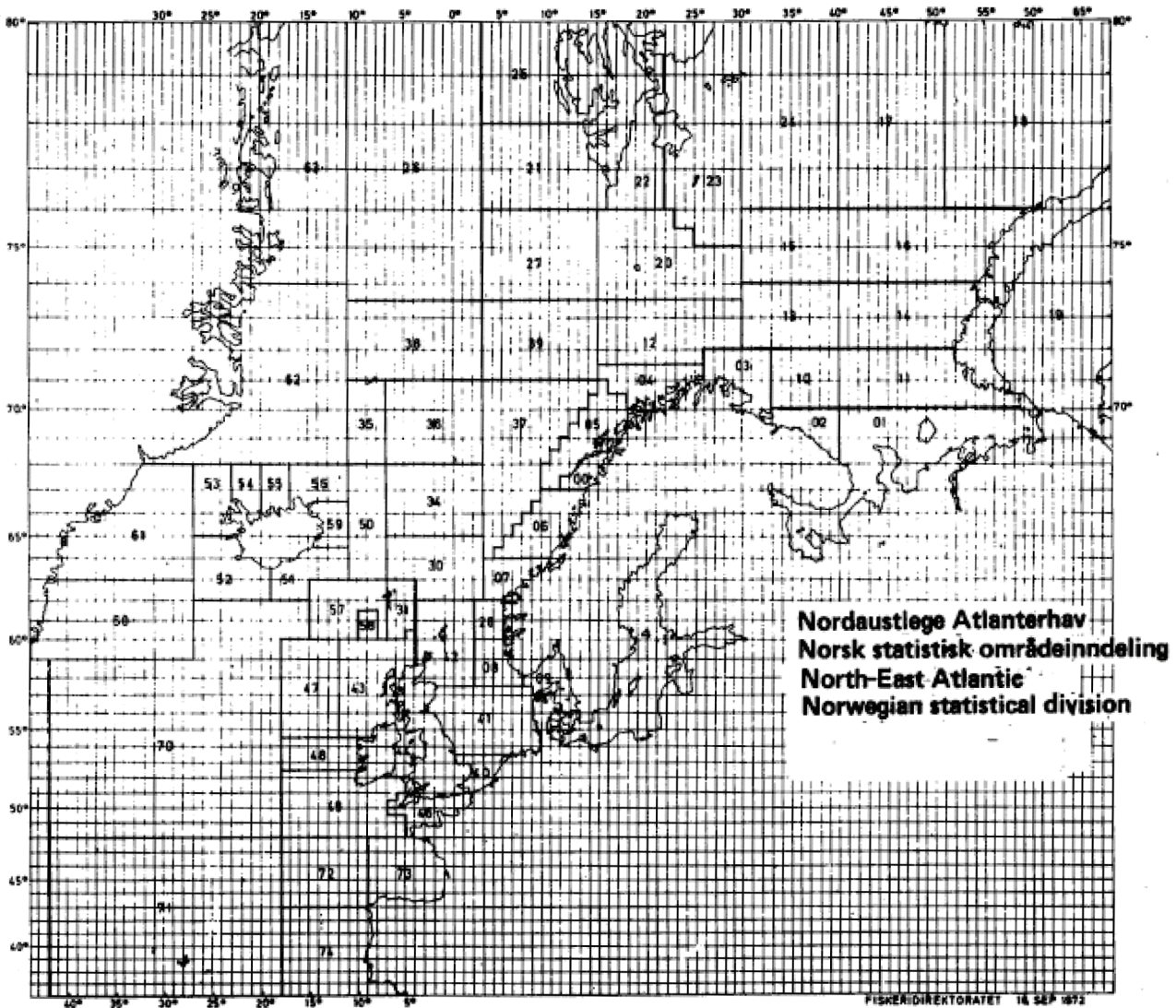


### Fishing grounds. Northwest Atlantic





### Fishing grounds. Northeast Atlantic



## Appendix F

## Fishing grounds

## The Norwegian Sea/Barents Sea/Svalbard

| FAO-area | Norwegian area                |
|----------|-------------------------------|
| 27       | 00 Westfjord (Lofoten)        |
| 27       | 01 Kanin Bank                 |
| 27       | 02 Coast of Murmansk          |
| 27       | 03 East Finnmark              |
| 27       | 04 West Finnmark              |
| 27       | 05 Røst-Bank to Malang Ground |
| 27       | 06 Helgeland Bank             |
| 27       | 07 Storegga - Frøya Bank      |
| 27       | 10 Skolpen Bank               |
| 27       | 11 Gåse Bank                  |
| 27       | 12 Nordkapp Bank              |
| 27       | 13 Thor Iversens Bank         |
| 27       | 14 Britvin Ground             |
| 27       | 15 Central Bank               |
| 27       | 16 Admiralty Ground           |
| 27       | 17 Northeast Area             |
| 27       | 18 North of Novaya Zemlya     |
| 27       | 20 Bear Island                |
| 27       | 21 West Spitsbergen           |
| 27       | 22 Storfjord/Hinlopen Strait  |
| 27       | 23 Hopen                      |
| 27       | 24 Great Bank                 |
| 27       | 25 Northwest Spitsbergen      |
| 27       | 26 Greenland Sea              |
| 27       | 27 Southwest of Spitsbergen   |
| 27       | 30 Southern Norwegian Sea     |
| 27       | 34 Central Norwegian Sea      |
| 27       | 35 South of Jan Mayen         |
| 27       | 36 Western Norwegian Sea      |
| 27       | 37 Eastern Norwegian Sea      |
| 27       | 38 Northwest Norwegian Sea    |
| 27       | 39 West of Tromsø Bank        |
| 27       | 50 Southwest Norwegian Sea    |

## The North Sea/Skagerrak

| FAO-area | Norwegian area        |
|----------|-----------------------|
| 27       | 08 Eigersund Bank     |
| 27       | 09 Skagerrak          |
| 27       | 28 Viking Bank        |
| 27       | 40 Southern North Sea |
| 27       | 41 Central North Sea  |
| 27       | 42 Shetland           |

## Other areas in the Northeast Atlantic Ocean

| FAO-area | Norwegian area           |
|----------|--------------------------|
| 27       | 29 The Baltic            |
| 27       | 31 East of Faroe Islands |
| 27       | 43 West of Scotland      |
| 27       | 44 Irish Sea             |
| 27       | 45 Bristol Channel       |
| 27       | 46 Outside Cornwall      |
| 27       | 47 Rockall               |
| 27       | 48 West of Ireland       |
| 27       | 49 Southwest of Ireland  |
| 27       | 51 Southeast of Iceland  |
| 27       | 52 Southwest of Iceland  |
| 27       | 53 Northwest of Iceland  |

|    |                              |
|----|------------------------------|
| 27 | 54 North of Horn (Iceland)   |
| 27 | 55 North of Iceland          |
| 27 | 56 Northeast of Iceland      |
| 27 | 57 West of Faroe Islands     |
| 27 | 58 Faroe Islands Bank        |
| 27 | 59 East of Iceland           |
| 27 | 60 Skjoldungen               |
| 27 | 61 Denmark Strait            |
| 27 | 62 Gammelock                 |
| 27 | 63 East of Queen Louise Land |
| 27 | 70 Reykjanes Ridge           |
| 27 | 71 Azores Plateau            |
| 27 | 72 West-European Basin       |
| 27 | 73 Bay of Biscay             |
| 27 | 74 Iberian Basin             |

## Northwest Atlantic Ocean

| FAO-area | Norwegian area            |
|----------|---------------------------|
| 21       | 64 Baffin Island          |
| 21       | 65 Disko                  |
| 21       | 66 Hellefisk Bank         |
| 21       | 67 Banan Bank             |
| 21       | 68 Fyllas Bank            |
| 21       | 69 Fredrikshaab Bank      |
| 21       | 75 Cap Farewell           |
| 21       | 76 Labrador North         |
| 21       | 77 Labrador South         |
| 21       | 78 Hamilton Bank          |
| 21       | 79 Ritu Bank              |
| 21       | 80 North Grand Bank       |
| 21       | 81 Flemish Cap            |
| 21       | 82 Southeast Grand Bank   |
| 21       | 83 Southwest Grand Bank   |
| 21       | 84 St. Pierre             |
| 21       | 85 Cape Ray               |
| 21       | 86 Newfoundland West      |
| 21       | 87 Anticosti              |
| 21       | 88 Prince Edward          |
| 21       | 89 North Sidney           |
| 21       | 90 Banquerau              |
| 21       | 91 Sable Island           |
| 21       | 92 Bay of Fundy           |
| 21       | 93 Gulf of Maine          |
| 21       | 94 West of Chesapeake Bay |
| 21       | 95 North of Bermuda       |

## Outside the North Atlantic Ocean

| FAO-area | Norwegian area  |
|----------|---|
| 18       | 19 East of Novaya Zemlya                              |
| 34       | 96 Eastern Central Atlantic Ocean<br>(West-Africa)    |
| 41       | 98 Southwest Atlantic Ocean                           |
| 47       | 33 Southeast Atlantic Ocean                           |
| 51       | 32 Western Indian Ocean                               |
| 81       | 97 Southwest Pacific Ocean<br>(Australia/New Zealand) |
| 81       | 99 <i>Pacific, Antarctic</i>                          |

## Commodity groups in the tables of exports and imports

| Commodity group   | Commodity number |       |       |       |       |
|---|------------------|-------|-------|-------|-------|
| 1. Reared salmon, fresh, chilled or frozen                    | 0302.            | 1201, | 1202  |       |       |
|   | 0303.            | 2201, | 2202  |       |       |
| 2. Herring and sprat, fresh, chilled or frozen, incl. fillets | 0302.            | 4001, | 4002, | 4003, | 4009  |
|   |                  | 6100  |       |       |       |
|   | 0303.            | 5001, | 5002, | 5003, | 5009  |
|   |                  | 7100  |       |       |       |
|   | 0304.            | 1060, | 2061, | 2062  |       |
| 3. Other fresh or chilled fish, incl. fillets                 | 0302.            | 1101, | 1109  |       |       |
|   |                  | 1209, | 1901, | 1909  |       |
|   |                  | 2101, | 2105, | 2106, | 2107  |
|   |                  | 2200, | 2300, | 2901, | 2109  |
|   |                  | 3100, | 3200, | 3300, | 3400, |
|   |                  | 3600, | 3900, | 3909  | 3500, |
|   |                  | 5001, | 5002, | 5009, | 6200, |
|   |                  | 6400, | 6502, | 6503, | 6504, |
|   |                  | 6600, | 6901, | 6902, | 6903  |
|   |                  | 6904, | 6905, | 6906, | 6907, |
|   | 0304.            | 1011, | 1019, | 1021, | 1029  |
|   |                  | 1030, | 1040, | 1051, | 1059, |
|   |                  | 1081, | 1089, | 1091, | 1092, |
|   |                  |       |       |       | 1070  |
|   |                  |       |       |       | 1099  |
| 4. Other frozen fish, excl. fillets                           | 0303.            | 1100, | 1900  |       |       |
|   |                  | 2101, | 2109, | 2209  |       |
|   |                  | 2901, | 2909, | 3101, | 3102  |
|   |                  | 3200, | 3300, | 3900  |       |
|   |                  | 4100, | 4200, | 4300, | 4400, |
|   |                  | 4500, | 4600, | 4900, | 4909  |
|   |                  | 6000, | 7200, | 7300, | 7401, |
|   |                  | 7501, | 7509  |       | 7402  |
|   |                  | 7600, | 7700, | 7800  |       |
|   |                  | 7901, | 7902, | 7903, | 7904  |
|   |                  | 7905, | 7907, | 7909  |       |
| 5. Frozen fillets of fish, excl. herring                      | 0304.            | 2010, | 2020, | 2033, | 2039  |
|   |                  | 2043, | 2049, |       |       |
|   |                  | 2053, | 2059, | 2070, | 2080  |
|   |                  | 2091, | 2092, | 2093, | 2094, |
|   |                  |       |       |       | 2099  |
| 6. Salted herring, excl. fillets                              | 0305.            | 6101, | 6102, | 6103, | 6109  |
| 7. Other salted fish, incl. fillets (also fillet of herring)  | 0305.            | 2001, | 2009, | 3003, | 3004, |
|   |                  | 3006, | 3007, | 3008, | 3009, |
|   |                  | 6200, | 6300, | 6901, | 6902, |
|   |                  | 6904, | 6909  |       | 6903, |
| 8. Stockfish (dried fish)                                     | 0305.            | 5101, | 5102, | 5103, | 5104  |
|   |                  | 5901, | 5902, | 5904, | 5907  |
| 9. Klipfish (salted and dried)                                | 0305.            | 5107  |       |       |       |
|   |                  | 5903, | 5905, | 5906, | 5908  |

## Varegrupper i tabellane om eksport og import (framh.)

| Commodity group   | Commodity number   |  |  |   |   |                        |
|---|--|--|--|---|---|------------------------|
| 10. Crustaceans and molluscs, not canned                            | 0306.  | 1100,<br>1401,<br>2301,  | 1200,<br>1409,<br>2302,  | 1301,<br>2100,<br>2309,   | 1302,<br>2200,<br>2401,                                     | 309<br>2409            |
|   | 0307.  | 1000,<br>3100,<br>5100,<br>9109,   | 2101,<br>3900,<br>5900,<br>9900  | 2109,<br>4100,<br>6000,   | 2901,<br>4900,<br>9101,                                     | 2909<br>9102,          |
| 11. Oil of herring and other fish                                   | 1504.  | 2021,  | 2031,  | 2099  |   |                        |
| 12. Fish liver oil, excl. waste oil                                 | 1504.  | 1091,  | 1093,  | 1099  |   |                        |
| 13. Fish, prepared or canned, incl. caviare and caviare substitutes | 1604.  | 1101,<br>1201,<br>1301,<br>1902,<br>2001,<br>2009,   | 1102,<br>1202,<br>1309,<br>1903,<br>2002,<br>3001,   | 1109<br>1203,<br>1400,<br>1904,<br>2004,<br>3002                          | 1204,<br>1205,<br>1500,<br>1600,<br>1905,<br>2005,<br>2006, | 1206,<br>1600<br>2007, |
| 14. Crustaceans and molluscs, prepared or canned                    | 1605.  | 1000<br>2003,<br>3000,   | 2004,<br>4000,   | 2005,<br>9001,  | 2009<br>9009  |                        |
| 15. Meal and powder of fish, crustaceans or molluscs                | 0305.<br>0306.<br>2301.  | 1000<br>1900,<br>2010,   | 2900<br>2090   |   |   |                        |
| 16. Other products  | 0301.<br>0302.<br>0303.<br>0304.<br>0305.<br>0508.<br>0511.<br>1504.<br>1516.<br>1603. | 1000,<br>9901,<br>7000<br>8000<br>9001,<br>4100,<br>0000<br>9111,<br>9191,<br>1011,<br>2011,<br>1020,<br>0010, | 9100,<br>9902,<br>9009<br>4200,<br>0000<br>9112,<br>9192,<br>1020,<br>2040<br>3021,<br>0020, | 9200,<br>9909<br>4900<br>9113,<br>9193,<br>1099<br>3030,<br>3030,<br>0092 | 9300<br>9119<br>9199<br>3099                                |                        |

## The name of some marine animal species translated into different languages<sup>1</sup>

| Norwegian name           | Zoological name              | English name                | French name                | German name                  |
|--------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|
| <b>Fisk og skaldyr</b>   | <b>Pisces Crustacea</b>      | <b>Fish and crustaceans</b> | <b>Poisson et crustacé</b> | <b>Fisch und Krustentier</b> |
| Augepål                  | Trisopterus esmarkii         | Norway pout                 | Tracaud norvégien          | Stintdorsch                  |
| Blåkveite                | Reinhardtius hippoglossoides | Greenland halibut           | Flétan noir                | Schwarzer Heilbutt           |
| Blålange                 | Molva dypterygia             | Blue ling                   | Lingue bleue               | Blauleng                     |
| Breiflabb                | Lophius piscatorius          | Anglerfish                  | Baudroie                   | Seeteufel                    |
| Brisling                 | Sprattus sprattus            | Sprat                       | Esprot                     | Sprott                       |
| Brosme                   | Brosme brosme                | Tusk, cusk                  | Brosme                     | Lumb                         |
| Brugde                   | Cetorhinus maximus           | Basking shark               | Pélerin                    | Riesenhai                    |
| Djupvassreke             | Pandalus borealis            | Deep water prawn            | Crevette nordique          | Tiefwasser Garnele           |
| Flekksteinbit            | Anarhichas minor             | Spotted catfish             | Loup tacheté               | Gefleckter Katfisch          |
| Gråsteinbit              | Anarchichas lupus            | Atlantic wolffish (Catfish) | Loup atlantique            | Gestreifter katfisch         |
| Havål                    | Conger conger                | Conger eel                  | Congre                     | Meeraal                      |
| Hestmakrell              | Trachurus trachurus          | Horse mackerel              | Chirchard                  | Bastardmakrele               |
| Hummar                   | Homarus gammarus             | European lobster            | Homard                     | Hummer                       |
| Hyse                     | Melanogrammus aeglefinus     | Haddock                     | Eglefin                    | Schellfish                   |
| Håbrann                  | Lamna nasus                  | Porbeagle                   | Taupe                      | Heringshai                   |
| Håkjerring               | Somniosus microcephalus      | Greenland shark             | Laimargue                  | Eishai                       |
| Kolmule                  | Micromesistius poutassou     | Blue whiting                | Poutassou                  | Blauer Wittling              |
| Kongekrabbe              | Paralithodes camtschaticus   | King crab                   | Crabe royal                | Königskrabbe                 |
| Krabbe (sjå Taskekrabbe) |                              |                             |                            |                              |
| Kveite                   | Hippoglossus hippoglossus    | Halibut                     | Fletan                     | Heilbutt                     |
| Kviting                  | Merlangius merlangus         | Whiting                     | Merlan                     | Wittling                     |
| Laks                     | Salmo salar                  | Salmon                      | Saumon                     | Lachs                        |
| Lange                    | Molva molva                  | Ling                        | Lingue                     | Leng                         |
| Lodde                    | Mallotus villosus            | Capelin                     | Capelan                    | Lodde                        |
| Lomre                    | Microstomus kitt             | Lemon sole                  | Limande sole               | Limande                      |
| Lusuer                   | Sebastes viviparus           | Red fish                    | Petit sébaste -            | Kleiner Rotbarsch            |
| Lyr                      | Pollachius pollachius        | Pollack                     | Lieu jaune                 | Pollack                      |
| Lysing                   | Merluccius merluccius        | Hake                        | Merlu                      | Seehecht                     |
| Makrell                  | Scomber scombrus             | Mackerel                    | Maquereau                  | Makrele                      |
| Makrellhai               | Isurus oxyrinchus            | Mako shark                  | Mako                       | Makrelen hai                 |
| Makrellstørje            | Thunnus thynnus              | Tunny, tuna                 | Thon                       | Thunfisch                    |
| Piggå                    | Squalus acanthias            | Picked dogfish              | Aiguillat                  | Dornhai                      |
| Piggskate                | Raja clavata                 | Thornback ray               | Raie bouclée               | Nagelrochen                  |
| Piggvar                  | Scophthalmus maximus         | Turbot                      | Turbot                     | Steinbutt                    |
| Pir, årsmakrell          | Scomber scombrus             | Young mackerel              | Maquereau jeune            | Junge Makrele                |
| Polartorsk               | Boreogadus saida             | Polar cod                   | Morue polaire              | Polardorsch                  |
| Raudspette               | Pleuronectes platessa        | Plaice                      | Plie, carrelet             | Scholle                      |
| Regnbogeaure             | Oncorhynchus mykiss          | Rainbow trout               | Truite arc-en-ciel         | Regenbogenforelle            |
| Reke = sjå Djupvassreke  |                              |                             |                            |                              |
| Rognkjeks                | Cyclopterus lumpus           | Lumpsucker                  | Lompe                      | Seehase                      |
| Røye                     | Salvelinus alpinus           | Char                        | Omble chevalier            | Seesaibling                  |
| Sandflyndre              | Limanda limanda              | Dab                         | Limande                    | Kliesche                     |
| Sei                      | Pollachius virens            | Saithe                      | Lieu noir                  | Köhler, Seelachs             |
| Sild                     | Clupea harengus              | Herring                     | Hareng                     | Hering                       |
| Sjøaure                  | Salmo trutta                 | Sea trout                   | Truite de mer              | Meerforelle                  |
| Sjøkreps                 | Nephrops norvegicus          | Norway lobster              | Langoustine                | Kaisergranat                 |
| Skater (rokker)          | Rajiformes                   | Skates and rayes            | Raie                       | Rochen                       |
| Skrei                    | Gadus morhua                 | Spawning cod                | Morue en fraie             | Laichdorsch                  |
| Slettvar                 | Scophthalmus rhombus         | Brill                       | Barbue                     | Glattbutt                    |

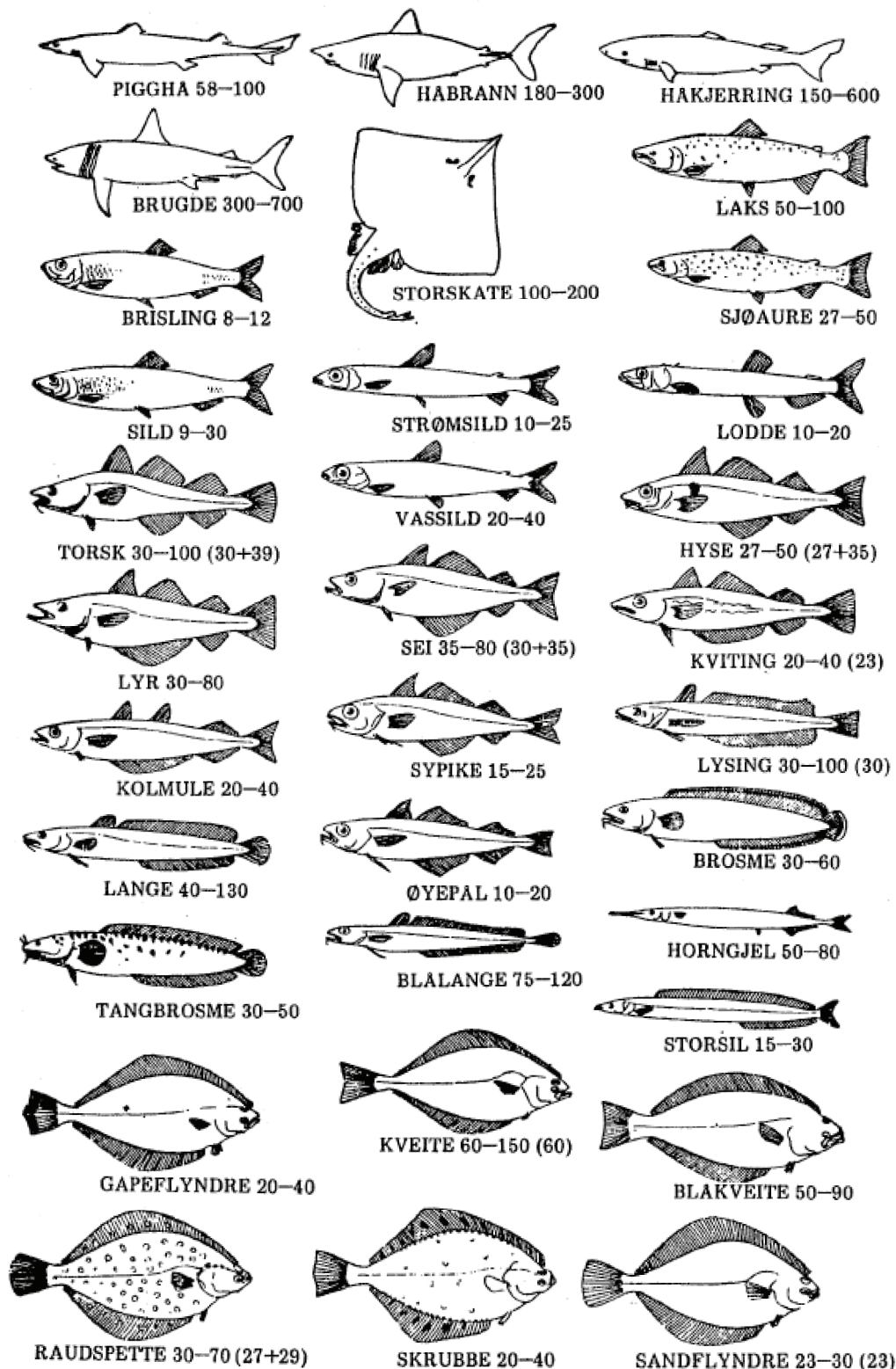
<sup>1</sup> Some of these species are not specified in the landing statistics.

# The name of some marine animal species translated into different languages<sup>1</sup>

| Norwegian name                  | Zoological name            | English name                   | French name                | German name               |
|---------------------------------|----------------------------|--------------------------------|----------------------------|---------------------------|
| <b>Fisk og skaldyr (framh.)</b> |                            |                                |                            |                           |
| Smørflandre                     | Glyptocephalus cynoglossus | Witch                          | Plie grise                 | Rotzunge                  |
| Småsil, tobis                   | Ammodytes tobianus         | Lesser sandeel                 | Lançon équille             | Tobisfisch                |
| Snabeluer                       | Sebastes mentella          | Deep-sea redfish               | Sébaste du nord            | Schnabelbarsch            |
| Steinbit                        | Anarhichas spp.            | Catfishes                      | Loup de mer                | Katfische                 |
| Storskate                       | Raja batis                 | Common skate                   | Pocheteau                  | Glattrochen               |
| Straumsild                      | Argentina sphyraena        | Lesser silver smelt            | Argentine                  | Glasauge                  |
| Taskekrabbe                     | Cancer pagurus             | Edible crab                    | Tourteau                   | Taschenkreps              |
| Tobis (sjå Småsil og havsil)    |                            |                                |                            |                           |
| Torsk                           | Gadus morhua               | Cod                            | Morue                      | Kabeljau, Dorsch          |
| Tretrådet tangbrosme            | Gaidropsarus vulgaris      | Three-bearded rockling         | Motelle commune            | Dreibärtlige Seequappe    |
| Tunge                           | Solea vulgaris             | Sole                           | Sole                       | Seezunge                  |
| Uer                             | Sebastes marinus           | Golden redfish                 | Sébaste                    | Rotbarsch                 |
| Vassild (Kvitlaks)              | Argentina silus            | Gr. silver smelt               | Grande argentine           | Goldlachs                 |
| Vårtorsk                        | Gadus morhua               | Finmark young cod              | Morue du Finnmark          | Finnmarkdorsch            |
| Ål                              | Anguilla anguilla          | Eel                            | Anguille                   | Aal                       |
| <b>Blautdyr</b>                 |                            |                                |                            |                           |
| Akkar                           | Ommastrephes sagittatus    | <b>Mollusc</b><br>Flying squid | <b>Mollusque</b><br>Calmar | <b>Molluske</b><br>Kalmar |
| Blåskjell                       | Mytilus edulis             | Blue mussel                    | Moule commune              | Miesmuschel               |
| Hjerteskjell                    | Cerastoderma edule         | Cockle                         | Coque                      | Herzmuschel               |
| Kamskjell                       | Pecten maximus             | Scallop                        | Coquille Saint Jacques     | Kammuschel                |
| O-skjell                        | Modiolus modiolus          | Horse mussel                   | Moule appatell             | Grosse Miesmuschel        |
| Sandskjell                      | Mya arenaria               | Sand gaper                     | Mye commune                | Sandmuschel               |
| Østers                          | Ostrea edulis              | Common oyster                  | Huitre plate               | Auster                    |
| <b>Sel</b>                      |                            |                                |                            |                           |
| Fjordsel                        | Phoca vitulina             | Common seal                    | Phoque commun              | Seehund                   |
| Grønlandssel                    | Phoca groenlandica         | Harp seal                      | Phoque de Groenland        | Sattelrobbeicus           |
| Havert (gråsel)                 | Halichoerus grypus         | Grey seal                      | Phoque gris                | Kegelrobbe                |
| Kvalross                        | Odobenus rosmarus          | Walrus                         | Morse                      | Walross                   |
| Klappmyss                       | Cystophora cristata        | Hooded seal                    | Phoque a capuchon          | Klappmütze                |
| Ringsel                         | Phoca hispida              | Ringed seal                    | Phoque annelé              | Ringelrobbe               |
| Storkobbe                       | Erignathus barbatus        | Bearded seal                   | Phoque a barbe             | Bartribbe                 |
| <b>Kval</b>                     |                            |                                |                            |                           |
| Blåkval                         | Balaenoptera musculus      | Blue whale                     | Baleine bleue              | Blaual                    |
| Delfin                          | Delphinus delphis          | Common dolphin                 | Dauphin commun             | Gemeiner Delphin          |
| Finnkval                        | Balaenoptera physalus      | Fin-whale                      | Rorqual commun             | Finwal                    |
| Grindkval                       | Globicephala melaena       | Pilot whale                    | Globicéphale               | Grindwale                 |
| Grønlandskval                   | Balaena mysticetus         | Greenland right whale          | Baleine franche            | Grönlandwal               |
| Kvitkval                        | Delphinapterus leucas      | White whale (beluga)           | Dauphin blanc (béluga)     | Weisswal                  |
| Knølkval                        | Megaptera novaeangliae     | Humpback whale                 | Jubarte                    | Buckelwal                 |
| Kvitnos                         | Lagenorhynchus dolphin     | White beaked dolphin           | Dauphin a nez blanc        | Weisschnauzenalbirostris  |
| Kvitksjeving                    | Lagenorhynchus acutus      | White-sided dolphin            | Dauphin a flancs blanc     | Weisseiten Delphin        |
| Narkkval                        | Monodon monoceros          | Narwhal                        | Narval                     | Narwal                    |
| Nebbkval                        | Hyperoodon rostratus       | Bottlenose                     | Hyperoodon                 | Entenwal                  |
| Nise                            | Phocoena phocoena          | Porpoise                       | Marsouin                   | Kleiner Tümmler           |
| Nordkaper                       | Eubalaena glacialis        | Black right whale              | Baleine de Biscaie         | Nordkaper                 |
| Seikkval                        | Balaenoptera borealis      | Sei whale                      | Rorqual de Rudolphi        | Seiwal                    |
| Spekkhoggar                     | Orcinus orca               | Killer whale                   | Orque                      | Schwertwal                |
| Spermkval                       | Physeter macrocephalus     | Sperm whale                    | Cachalot                   | Pottwal                   |
| Tumler                          | Tursiops truncatus         | Bottle-nosed dolphin           | Dauphin a gros nez         | Grosser Tümmler           |
| Vågekval                        | Balaenoptera acutorostrata | Minke whale                    | Petit rorqual              | Zwergwal                  |

<sup>1</sup> Some of these species are not specified in the landing statistics.

### Card over some marine animals<sup>1</sup>. cm



1) The measures refer to normal marketing sizes. Legal minimum length is given in brackets. When two numbers in a bracket, they refer to two separated geographical areas. See 'Melding fra Fiskeridirektøren' (Announcement from the Director of the fisheries) J. 5/82.

Source: Drawn by Thorolv Rasmussen.

