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THE FISHERY INDUSTRY IN SLOVAKIA

EASTFISH Fishery Industry Profile

Volume 18

Written by

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Summary:

The importance of the fishery industry sector to the economy of Slovakia is reviewed. This report provides an overview of the country's fisheries and its administration. The production and distribution structure is discussed and supply and demand characteristics of the market and trends in foreign trade are described.

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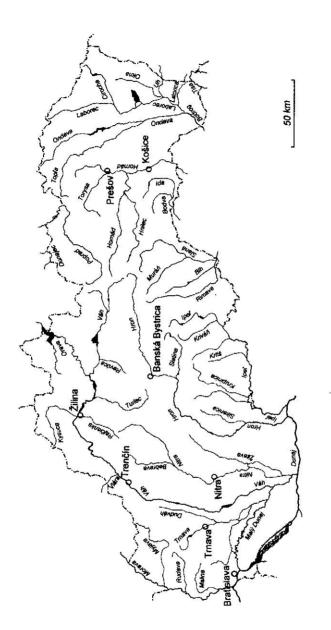


Figure 1 Principal rivers of Slovakia

1. INTRODUCTION

Fisheries may be considered one of the oldest economic activities in Slovakia. However, because it is a mostly mountainous country, fishery activity occurred mainly in free flowing waters.

As borne out by documents still existing, fish farming in Slovakia in the 11th century was already extremely widespread with its own established traditions and practices. From that century on, landlords tended to develop more abundant fishing grounds for their own needs. A law on fishing by King Koloman (1085-1116) has been preserved from the early 12th century. It was not a founding law, but rather one that put some order into ancient confused fishing regulations.

Construction of ponds and fish farming may be traced back to the 12th century and some of them still exist. However, further development of fish farming was hampered by the expansion of the Ottoman Empire and subsequent occupation of the most productive land in southern Slovakia. After the occupation, the hunger for land prevented the further development of fish farming.

The decline was also aided in some measure by the Reformation which relaxed the austere rigour of Lenten fasting practices from preceding epochs, when fish was permitted as a meat dish on about 100 days in the year.

Until 1992 a commercial fishery existed in Slovakia in some reservoirs and in the Danube River. However, since that time fisheries in natural water bodies have become exclusively recreational. Prior to 1989 the commercial production of fish had been assigned to the State Fishery Enterprise. After the disbanding of the State Fishery, fish farming was transferred to private firms.

Because domestic fish production cannot meet the demand, large quantities of marine and freshwater fish are imported annually. The consumption of fish is rather low in comparison with other countries – it amounted to 4.5 kg per capita in 1997, compared with the recommended annual consumption of 6.0 kg per capita.

2 GENERAL DATA

The basic statistical data on Slovakia is as follows:

Area: 49 035 km²

Population: 5 387 650 persons (1997)

Population density: 109.9 inhabitants per km² (1997)

Gross domestic product (in current prices): 19 425 mill. US\$ (1997) Gross domestic product per capita (in current prices): 3 613 US\$ (1997)

Rate of exchange SKK/US\$: 33.616 (1997)

2.1 Physical geography

Slovakia is situated between latitudes 47°43'54" and 49°36'52" N and longitudes 16°50'05" and 22°34'04" E within central Europe. Its extreme length is 429 km (connecting line of the westernmost and easternmost points); its greatest breadth is 195 km (N-S), however, with the extreme eastern part only 76 km in width (N-S). Maximum distance in the direction of the meridian is 197 km, in the direction of the parallel it is 395 km. The highest point is 2 655 m (Gerlachovský štít [Gerlach peak] in the High Tatra Mountains), the lowest 94 m (mouth of the Bodrog river).

It is bound on the north by Poland for 547.1 km (32.7%), on the east by Ukraine for 98.5 km (5.9%), on the south by Hungary for 668.6 km (40%), on the west by Austria for 106 km (6.3%) and on the northwest by the Czech Republic for 251.8 km (15.1%).

Slovakia is essentially mountainous, lowlands cover only 28.4%, intramountain basins 16.5%, and mountains 55.1% of the total area.

2.2 Climate

The climate of Slovakia is temperate and intermediate between the maritime type of Western Europe and the dry continental type of Eastern Europe.

There are three climatic regions in Slovakia:

Warm region - with more than 50 summer days in the year (daily maximum over 25 °C) and mild to cold winter (average temperatures in January not below -5 °C);

Mild region - with less than 50 summer days in the year, with the lowest average temperatures of 16 °C in June;

Cold region - with average temperatures below 16 °C in June.

The mean annual temperature varies from -3.7 °C in the High Tatras to 10.4 °C in the Danubian Lowland.

The average annual precipitation varies from about 500 mm (in the Danubian Lowland and the southern part of East Slovakian lowlands) to 2 100 mm (in the Tatra Mountains). The highest incidence of rainfall is in the summer.

Snow cover lasts in the lowlands less than 40 days, in the mountains more than 120 days (from November to early April). Snow persists all year in some high places in the Tatras.

2.3 Hydrography and limnology

Slovakia's total water catchment area is made up of 49 775 km of natural water courses, 8 164 km artificial water courses (drainage, irrigation, supply and

navigation canals), 118 lakes, 300 small water reservoirs and ponds, and 60 large water reservoirs.

The total area of Slovakia's inland waters is about 93 886 ha or some 1.9% of the total area of the country.

Table 1 Pattern of land and water use in Slovakia, 1998

	Area ('000 ha)	Percent
Arable land	1 472	30.0
Permanent pastures	846	17.3
Gardens, orchards, vineyards	127	2.6
Forests and woodland	1 996	40.7
Other land	369	7.5
Inland water	93	1.9
Total area of land	4 903	100.0

In an average year, the annual precipitation in Slovakia amounts to 36 370 mill. m³ (layer 743 mm), of which 12 592 mill. m³ (layer 257 mm) is run off and the difference 23 778 mill. m³ (486 mm) evaporates. The long-term balance differs considerably within the various regions of Slovakia. For instance, in the Danubian lowlands up to 90% of the precipitation evaporates, while the ratio in high-mountain areas is about 10%. During the driest year, rainfall amounts to no more than 26 856 mill. m³ (548 mm) and 7 547 mill. m³ (154 mm) run off, the figures for the wettest year are 49 204 mill. m³ (1 004 mm) of precipitation and 17 251 mill. m³ (352 mm) of run off.

Slovakia's water fund is also enriched with water courses coming in from neighbouring territories. According to the long-term mean 3 328 m³·s⁻¹ of water runs through Slovak streams, 2 930 m³·s⁻¹ come as tributaries from neighbouring countries and only 398 m³·s⁻¹ of water originates in Slovakia.

2.3.1 Rivers

The density of water courses in Slovakia fluctuates between the lower values of 0.25 km·km⁻² (in some parts of the Danubian Lowland) up to values of 1.8 km·km⁻² (in mountainous areas). The mean density of Slovakia's river network amounts to 0.88 km·km⁻².

Up to 96% of the Slovak territory is drained by the riverine system of the Danube, the rest is drained by the Dunajec with its largest tributaries in Slovakia – the Poprad and Biela Voda. Their watershed divides Slovakia into areas feeding the Black and the Baltic seas.

The watershed separates the Danubian system from its largest tributary – the Tisa, running in a north-south direction. From this watershed, Slovakia's principal water courses flow to the south-east and south-west. Mountain ranges in the west separate the basins of the Váh, Nitra, Hron and Ipel' one from another and in the east, the Bodrog basin from that of the Slaná and Hornád rivers.

The west Slovak water course (with the exception of the Morava river) runs along relatively narrow depressions, locked in by mountain ridges and creates feather-like river systems with a prolonged pattern to the basin. Totally

different systems are created by the East Slovakian basin of the Tisa river flowing in from the mountainous fountainheads into the broad East Slovakian lowlands, forming fan-shaped river systems.

Table 2 Principal rivers of Slovakia

River	Length on the territory of Slovakia	River-basin area (km²)	Average annual flow (m³·s⁻¹)
Dunaj *	172.0	1 138	2 018
Morava	107.2	2 282	136
Váh	367.2	14 268	152
Nitra	168.4	4 501	23
Hron	278.3	5 465	48
Ipel'	197.9	3 649	16
Slaná	92.5	3 217	14
Bodva	48.8	858	2.4
Hornád	178.5	4 414	32
Bodrog	158.3	7 265	82
Tisa	5.2	7	82
Dunajec	17.0	356	
Poprad	143.0	1 594	17

^{*} without affluents

The largest Central-European river, the Danube (Dunaj), flows in the Slovak territory over a length of 172 km, forming 7.5 km of frontier with Austria, and 142 km with Hungary. The Morava river forms our frontier with Austria and the Czech Republic over a length of 107.2 km. Rivers forming frontiers with Hungary are the Hornad (over a length of 10.4 km), the Ipel (108.7 km) and the Tisa (5.2 km), and with Poland, the Dunajec (16.8 km) and the Poprad rivers (31.6 km.).

2.3.2 Lakes

The great majority of lakes in Slovakia are of glacial origin. There are 107 such glacier lakes (termed "pleso" tarns) in Slovakia, 85 of which are in the High Tatras, 20 in the Western Tatras and 2 in the Low Tatras.

The highest tarn in Slovakia is the glacial moraine lake Modré pleso (0.40 ha in area, max. depth of water 1 m, max. length 73 m and max. width 73 m). It lies on the southern side of the High Tatras at an elevation of 2 190 m above sea level and often remains covered with snow several meters thick throughout the summer. It has no surface feed, only outflow.

The largest and deepest glacial rock basin lake is Vel'ké Hincovo pleso (area 20.08 ha, volume 1 786 000 m³, max. depth 53 m, max. length 740 m, max. width 370 m, max. surface temperature about 7 °C, mean number of days with ice cover in year 270). It lies in the High Tatras at an elevation of 1 946 m above sea level. It has no surface affluent, and its outflow gives rise to one of the tributaries of the Poprad river (Hincov potok - Hincov stream). The lake is without fish.

In the forest belt on the southern slopes of the High Tatras, at an elevation of 1494 m above sea level lies the glacial moraine lake Popradské pleso (area 6.88 ha, volume 451 000 m³ max. depth 18 m, max. length 380 m, max. width 248 m, max. surface temperature about 15 °C, ice-bound for a mean of 190 days in the year). Flowing in from the higher-situated lake L'adové pleso is the stream L'adový potok, while the Poprad river runs out of it. Trout (Salmo trutta m. fario) live in it as an autochthonous species.

The most typical glacial moraine lake in the High Tatras is Štrbské pleso (19.76 ha, 1 284 000 m³, max. depth 20 m, max. length 640 m., max. width 600 m., max. surface temperature about 19 °C. mean annual temperature 6 °C, mèan period of ice cover 155 days). It lies at an elevation of 1 346 m above sea level and has no natural feeder, nor outflow. Fish found in it are brown trout (Salmo trutta m. fario), brook trout (Salvelinus fontinalis), powan (Coregonus lavaretus) pike (Esox lucius), roach (Rutilus rutilus) and ide (Leuciscus idus). Several lakes are to be found in Eastern Slovakia, in mountain ranges of volcanic origin, the largest being that of Morské oko in the Vihorlat Mountain (area 13 ha, depth 36 m). It is the home of the brown trout (Salmo trutta m fario), European minnow (Phoxinus phoxinus) and stone loach (Barbatula barbatula). Small-sized, shallow land slide formed lakes occur in the flysch ranges of Slovakia (the best known are in Spišská Magura Mountains). Likewise several small shallow karst lakes may be seen in areas of the Slovak Karst.

2.3.3 Reservoirs

Construction of fish ponds in Slovakia is attested to by documents from the 12th, 13th and 16th centuries. The largest ponds existed in the region of Michalovce (in eastern Slovakia), Gbelce (in the southern part of middle Slovakia) and at Záhorie region (in the south-west of the country). Only a minor part of them has been preserved to this day.

Further development of fish farming was hampered by the expansion of the Ottoman Empire and subsequent occupation of the most productive landscape in southern Slovakia which lasted almost two hundred years. After the occupation ceased, the following desire for land prevented further development of fish farming Further construction of fish ponds was initiated after World War II. The largest are in Hrhov (251.2 ha), Inacovce (211.3 ha), Levice (92 ha) Hrobonovo (75 ha) and Vel'ký Blahov (70 ha). In 1988, a total of 2 158 fish ponds were recorded in Slovakia, which in 1980 yielded a catch of over 898 tonnes of fish, i. e. 416 kg per hectare.

As far back as the 16th-18th centuries a system of water reservoirs (so-called tajchs) was built in the region of Banská Štiavnica which besides fish, also provided drinking water to the inhabitants and, as of the 17th century, also ensured water for the technical requirements of the local mining industry. The volume of most of them ranged from 20 thousand to 1 million m³ and their depth from 2 to 28 m. At present, 15 of them are in operation with a total volume of 5 mil. m³ of water. Some supply water for household needs, others for industry and some are much sought-after as recreation spots. The largest one, Pocúvadlo, has an area of 11.73 ha, with a volume of 922.3 thousand m³.

The most significant, however, are water reservoirs constructed during the past few decades, most of them in the Váh valley – over 20. In 1996 Slovakia recorded a total of 300 small and 60 large water reservoirs with an aggregate volume of 2 700 million m³ and an area of 332 km².

Table 3 The largest water reservoirs in Slovakia

Name	Situated in	Total volume (10 ⁶ ·m ³)	Max. area flooded (km²)	Put in operation
Liptovská Mara	Váh river	360.0	21.6	1975
Orava	Orava river	345.9	35.0	1953
Zemplinska Šírava	Laborec river	334.0	32.9	1965
Gabcíkovo *	Danube river	243.0	60.1	1992
Vel'ká Domaša	Ondava river	185.0	15.1	1966
Starina	Cirocha river	59.1	3.1	1988
Ruzín I	Hornád river	59.0	3.9	1968
Král'ová	Váh river	51.8	11.7	1986
Nosice	Váh river	36.0	5.7	1958
Nová Bystrica	Bystrica creek	35.0	1.9	1989
Málinec	Ipel' river	26.6	1.5	1994
Bukovec II	Ida river	23.4	1.1	1976
Ruziná	Budín brook	15.6	1.8	1973
Drahovce	Váh river	12.2	4.3	1959
Palcmanská Maša	Hnilec river	11.1	0.9	1956

^{*} including the canal

2.3.4 Canals

In 1996, Slovakia possessed a total of 8 164 km of artificial waterways – of these, 7 047 km were drainage channels, 317.3 km irrigation convey canals, 921 km supply canals and intakes and 25 km navigation channels. The largest drainage systems are in Zitný ostrov (in the Danubian lowlands) and in the East Slovakian lowlands. Fish biomass in drainage and irrigation canals is estimated at 60 kg·ha⁻¹.

3. FISH AND FISHERIES

There are 73 species of fish inhabiting Slovakia's inland waters, 19 of which relate to exotic species (list given in Appendix 1). Until the end of the 1870s the fish fauna of Slovakia could be regarded as pristine and relatively intact. since only the intensive fishing for sturgeons in the Danube and Tisa rivers had a visible effect, as demonstrated by a substantial drop in catch. The subsequent period, lasting until the end of the 1960s is characterized by a more notable human impact. Increased industrial development accompanied by negative factors, especially pollution and river regulation started to have more obvious effects on the aquatic biota. The first group of fish that was severely affected were sturgeons. In addition to overfishing, the main reason for their destruction was modifications of rivers. From this group only two species have survived, i.e. the sterlet (Acipenser ruthenus) and the resident form of the Russian sturgeon (Acipenser gueldenstaedti). Salmonids are the second group affected by the negative impact of anthropogenous factors. Since the late 1940s Atlantic salmon (Salmo salar) and sea trout (Salmo trutta m. trutta) disappeared from the fish fauna of Slovakia. Of the native species of Slovak fish, 27 are under some degree of threat.

The period since the beginning of the 1970s is characterized by extensive destruction of fish habitats and aquatic ecosystems. Destructive factors include the construction of dams, canalization of rivers, release of industrial waste waters and municipal sewage, deforestation, expansion of arable land, and extraction of water for irrigation. In spite of this, the trophy game fish, the Danubian huchen (Hucho hucho) still occurs in some Slovak rivers. The catch of this species during the last five years (1990-1994) varied from 31-64 specimens and 211-470 kg. Of course, the population of the huchen as well as the brown-trout (Salmo trutta m. fario), the grayling (Thymallus thymallus), the pike-perch (Stizostedion lucioperca), the pike (Esox lucius), the wels (Silurus glanis), and the nase (Chondrostoma nasus) is supported by annual stocking.

3.1 Capture fisheries

Under the Constitution of the Slovak Republic (Chapt. 12, Sect. 12, Art. 4) "mineral resources, underground waters, natural curative springs and watercourses are the property of the Slovak Republic". Under the Fisheries Act No 102/63 Zb. (Sect. 2, Paragraph 8, Item 1), the Ministry of Agriculture has leased the fishing rights primarily to the Slovak Fisheries' Union, although some rights have been assigned to national associations of the State Forest Enterprise and, in regions managed by the military, to organizations under the jurisdiction of the Ministry of Defence.

3.1.1 Commercial fishing

Until 1992 commercial fishery existed in Slovakia in some reservoirs and in the Danube River. However, since that time fisheries in natural water bodies are exclusively recreational. Before 1989 the commercial production of fish was assigned to the State Fishery Enterprise.

3.1.2 Recreational fishing

Recreational fishing in Slovakia is pursued exclusively within the framework of the Slovak Fisheries' Union. The Slovak Fisheries' Union remains the principal fishing authority with jurisdiction over most of the country's waters. Watercourses under its management have been declared fishing grounds by the Ministry of Agriculture and, as such, serve for recreational fisheries. Each fishing authority of each fishing ground is bound to appoint a manager and his deputy, both of whom are then approved by the relevant office of State administration.

Of the 818 fishing areas registered in Slovakia, 254 are designated as trout waters, 506 trout-free waters and 67 mixed grounds. The principle water course of this last category, which is usually a submontane river, is as a rule, trout free, while its submontane stream tributaries are trout waters. Trout-free grounds include sub-montane rivers, lowland rivers, drainage, irrigation and derivation channels, reservoirs, and other types of standing water, including gravel pits, flooded quarries and small dams.

Managers have the following terms of reference:

- to conserve fish and other aquatic animals
- to promote fishing in the area
- to participate in discussions as to the allocation of the aquatic resource and on possible impacts of hydraulic works on the recreational fishery
- to monitor adverse impacts of human activities on aquatic ecosystems and to propose measures to mitigate such impacts
- to monitor the use and the quality of water and trace sources of pollution affecting the fishery
- in case of adverse impact through pollution or illegal utilization of water, to advise the authorities to initiate legal proceedings against the offenders
- to issue and sell fishing licenses, to issue and collect forms for fishing records and to analyze the records for statistical purposes
- to prepare and issue fishing regulations.
 - The Union is also responsible for the training and education of fishermen and administrators by:
- preparing and carrying out examinations of its members as to their knowledge of fishing regulations and fishing practices
- organizing training courses and excursions, fishing contests and competitions, exhibitions and other appropriate activities
- supporting the publication of the professional journal "Pol'ovnictvo a rybárstvo" (Hunting and Fishing), as well as manuals, guides and other literature on recreational fishing
- providing assistance to local fishermens' organizations;
- increasing awareness of the relationship between recreational fisheries and the environment encouraging a positive attitude to conservation
 - It also co-operates with public authorities, local governments, fisheries research institutes and professional schools with regard to:
- preparing and processing basic legal texts and regulations
- protecting the environment and the quality of water
- the education of the young in fishing.

The Union collaborates with fishing organizations abroad and is a member of international fishing organizations such as EAA, CIPS and FIPS.

The Slovak Fisheries' Union has its headquarters in Zilina with four regional Divisions in Bratislava, Komárno, Banská Bystrica and Košice. Its central authority is the Council which directs the local or urban associations, currently numbering 121 units. The Union has property worth SKK 230 million. It operates 13 production units, primarily for rearing brown trout, rainbow trout, brook trout, grayling, huchen, wild and domesticated common carp, nase wels, Northern pike and pike-perch for stocking. It also produces some rainbow trout for sale – fresh, smoked or frozen.

Any citizen of the Slovak Republic who has attained 18 years of age, who agrees to the Union statutes, has successfully passed the required examinations and has no criminal record for the past three years is eligible for membership of the Union. A new member pays an enrolment fee of SKK 100 and an annual membership fee of SKK 100 to 300 to the local organization. In addition, an official fishing ticket issued by the local authority at a cost of SKK 30/y is required. Every member (with the exception of pensioners and the young) is expected to put in 10 hours of voluntary work repairing river banks, cleaning up areas around the fishing grounds and keeping vegetation under control. Holders of trout fishing permits are expected to donate a further 5 - 10 hours cleaning up waterfalls and riffles. In the past, membership in the Union was subjected to limitations, but there is now a tendency to apply stricter criteria.

The Union has a membership of 69 018 with a further 8 618 members organized in Young Fishers' Clubs for adolescents of 16-18 years of age and 12 698 members of Young Fishers' Circles for children of 10-15 years of age. There are several types of angling permits, differing in the range of validity and price. Fishing permits are issued by the local fishing association or by the Union's Council. A basic fishing permit for association may cost SKK 300 for trout waters and between SKK 300 and 500 for trout-free waters. A permit to fish selected trout-free waters for the whole of Slovakia costs SKK 650. A visitor's permit for one area costs SKK 50 per person per day, SKK 150 per person per week. A permit for huchen (*Hucho hucho*) costs SKK 400 but covers only three trips during the open season and allows the holder to catch only one specimen. Children, soldiers on active service, women and invalids may have permits at reduced rates. A beginner needs about SKK 5 000 for the purchase of basic fishing gear. Renewal and additional gear will cost the angler about SKK 800 to 1 200 per year.

3.1.2.1 Regulations

Recreational fishermen are bound by the long term rules of the Union as well as by any fishing regulations which are in force during the current year (see Appendix 11). The Union rules regulate:

Fishing trips and daily fishing time

Salmonids in trout waters may be fished up to 3 days/week. No such restrictions apply to trout-free waters. Fishing may take place, depending on the season of the year, between the following hours:

Trout waters 5.00 - 8.00 h in the morning to 16.00 - 22.00 h in the evening Non-trout waters 4.00 - 7.00 h in the morning to 17.00 - 24.00 h in the evening Every angler must carry his official fishing license and a form to record his arrival time and his catch. Before starting to fish, the angler must record the date and his time of arrival. Before leaving the site he must record the number and weight of catch by species. At the end of the year these records are submitted to the manager of the fishing ground which issued the fishing permit.

General fishing prohibition:

A general prohibition is in force for trout waters from 1 September to 15 April. The Ministry of Agriculture may make an exception for waters where grayling are present up to 31 December, for grayling and rainbow trout when fished with artificial fly. The closed season for trout waters is therefore in force from 16 March until 31 May (see Appendix 12).

Bag limits:

The maximum allowable catch that may be kept from any trout-free water is 7 kg of fish. The catch may have at most 2 specimens of common carp, northern pike, pike-perch and grass carp, as well as 4 salmonid fishes. A daily limit of 4 salmonids is also imposed for salmonid waters. In any event the catch should not exceed 7 kg of non salmonid species and should not contain more than 2 carps. A recreational angler may neither sell nor exchange his catch.

Fishing practice:

The type of fishing gear, manner of fishing, baits, treatment of fish after capture and behaviour whilst fishing are also specified.

3.1.2.2 Resources

The Slovak Fisheries' Union controls 38 900 km of watercourses in an area of 15 500 ha. 32 000 km are classified as trout waters although these only cover 2300 ha. In addition, dams and reservoirs cover 31 100 ha, 2 550 being trout waters and 28 550 non-trout waters.

3.1.2.3 Catch

Catches by the recreational sector have been followed for over 30 years. They rose from 250 tonnes in 1960 to a maximum of 2 299 tonnes/y in 1981-1983. This maximum also corresponds to the maximum pressure as reflected by membership in the Union. The original; membership in 1960 was 12 000 and rose to 69 018 in 1994. It also corresponds to the nationwide validity of permits in 1981-83. Stocking was also at a maximum in 1980-1984 particularly with salmonid fry. Subsequently the nationwide licence was withdrawn, fishing pressure has slackened and he price of stocking material has risen. Because of lower stocking rates the problem of excessive fishing pressure continues to exist.

In the last years, the annual catch of recreational anglers varied between 1 185 – 1 948 tonnes of fish (equivalent to approx. 50 kg/ha). The mean annual catch per angler is 24 kg/y. Species composition of catches in tonnes was as given in Appendix 2.

3.1.2.4 Stocking

The Slovak Fisheries' Union has an intensive stocking programme. Stocking of the various fishing areas is carried out according to classification by value. Over the last ten years 20 species have been stocked as follows:

Trout waters

Salmo trutta m. fario fry, 3 months, 6 months and 1-, and 2-

years old

Oncorhynchus mykiss fry, 3 months, 6 months and 1-, and 2-

years old

Salvelnus fontialis fry, 1-, and 2-years old fry, 1-, and 2-years old fry, 1-, and 2-years old

Trout-free waters

Cyprinus carpio fry, forced fry, 1-, 2- and 3-

years old

Esox lucius fry, forced fry and 1-year old

Stizostedion lucioperca fertilized eggs and fry

Tinca tinca 1-year old

Silurus glanis fry and 1-year old Chondrostoma nasus fry and 1-year old

Ctenopharyngodon idella 2-years old Hypophthalmichthys molitrix & 2-years old

H. nobilis

Hucho hucho 1- and 2-years old

Aspius aspius 1-year old Acipenser ruthenus 1-year old

Eel (Anguilla anguilla), common bream (Abramis brama) and whitefish (Coregonus lavaretus & C. peled) are also stocked.

3.2 Fish Farming

Until 1989, fish farming was the exclusive domain of the State Fishery enterprises. This involved intensive farming of marketable fish, particularly in fish ponds and water reservoirs, a part of the fish being used to restock fishing grounds. The Slovak Fisheries' Union produced mainly fish in its facilities for restocking fishing grounds. Fish farming was also pursued by certain enterprises of the State Forest Administration, Military Forest Administration and Tatra National Park (TANAP) and this mainly for producing fish stock.

After 1989 the State Fishery collapsed and gave rise to three State concerns - Rybochov in Stupava, The Turiec Fishery in Kláštor pod Znievom and the East Slovakian Fishery in Michalovce. Subsequently, a part of these concerns were privatized, another part was transformed into the self-standing joint-stock holding company SLOVRYB whose principal object is production of fish stock for restocking fishing grounds.

Since, after 1989, it became possible to obtain the use of water bodies for the process of privatization, restitution, leasing from the state or construction of

new fish ponds, the number of subjects active in aquaculture has increased manifold. It is a rather problematic task to keep statistical records of subjects carrying on the activities of an independent farmer, as this involves a business whose record-keeping and authorization fall under the competence of communal authorities. It is estimated that today some 300 people are employed in the fish farming and processing industry. The situation is confused particularly in the rearing of the rainbow trout which is often reared from purchased fry under makeshift conditions in the vicinity of flowing waters. without meeting the prescribed legal norms. As fish farming is not a profession, it is not subject to registration for a business license. On the contrary, farmers entered in the trade register for fish farming need the approbation of the Ministry of Agriculture of the Slovak Republic. In keeping with para 20 of the Act No. 102/63 on Fisheries, this Ministry has issued certificates for rearing brood, stock or marketable fish to 34 applicants. This involves farming on a marketing basis and farming set up by local organizations of the Slovak Fisheries' Union for the purpose of rearing their own fry restocking fishing grounds.

Of the registered applications for certificates, rearing of brood fishes is ensured by 24 farms (the carp in 15, wels, pike and pikeperch in 10, rainbow trout in 7, tench in 4, brook trout, grayling and grass carp in 3, huchen and brown trout in 2 farms, and bighead carp in one farm). Stock fishes are reared in 30 farms - of these the carp in 17, pike in 15, pike-perch in 14, rainbow trout and wels in 11. brown trout, and tench in 9, grayling in 7, bighead carp in 6, grass carp and brook trout in 5, huchen in 4, nase in 3 and eel (from imported elvers) in one farm. Production of marketable fish is ensured by 30 farms, of these, the carp in 15, rainbow trout in 13, pike in 8, wels in 7, brook trout and pike-perch in 6, bighead carp in 5, grass carp and tench in 4 and eel (from imported elvers) in one farm. The majority of the farms pursue rearing of brood, stock and marketable fish. Six of them rear exclusively stock and marketable species, only three brood and marketable fish. Exclusive production of marketable fish is pursued by only three farms, and one single farm devotes itself exclusively to rearing stock fish. The greatest producers of lowland fish species are the Slovak Fisheries' Union in which 7 (out of 11) farms are engaged and Rybochov, Ltd., (4 farms out of 6) which has a approx. 80% share in the home carp production. The greatest produces of salmonoids is the joint-stock company SLOVRYB whose majority partner is the Council of the Slovak Fisheries' Union. All of their 7 farms concentrate precisely on salmonoids. This company produces about 70% of the annual home yield of salmonoids The only producer of the eel is JANEX, Ltd. Roughly 30% of registered fish farms own hatcheries, predominantly oriented towards to the breeding of salmonoid species.

4 FISH PROCESSING INDUSTRY

As far back as the Middle Ages, considerable quantities of marine fish used to be imported, particularly from Poland. But low consumption, problems with transportation, technology of processing and conservation of fish flesh did not create favourable conditions for a fish processing industry in Slovakia. In the 20th century, several operation plants were set up which were mainly in the hands of small enterprisers. Among the largest were the firms Cils in Nitra. Eletko in Zilina, Seimbel in Kezmarok, Malmed in Bratislava, Trnava and Košice and also Ryba in Bratislava. After the constitution of the Czecho-Slovak Republic in 1918, several Czech firms began operating in Slovakia, e. g. Varmuza of Hodonín, Preisler of Decín, Komrska, Schmiedeberg and König of Olomouc and others. These were for the most part concerns based on manual work, with operations of a seasonal character (in summer they pursued alternate substitute production). The more important among them employed some 50 workers. In 1949 all the concerns were nationalized and incorporated into the national enterprise Ryba. However, in 1963 the latter was abolished and its plants allocated to the all-state concern Rybena Prague, later, in 1965, into that of the Slovak Freezing Industry (in 1976 renamed Mraziarne). The smaller and obsolete plants were abolished, production was concentrated in plants in Bratislava, Zilina and Košice, to which the concern in Záhorská Ves was added in 1972. In 1953, distribution of products was incorporated into the network of home trade, importation of fish and canned products was taken over by the exclusive firm Koospol Prague. In 1961, rearing and distribution of live fish was limited to the national enterprise State Fishery in Stupava, so that the fish processing industry became exclusively oriented to sea fish processing, However, the technology used was completely outdated. Its renewal dates from after 1989 and this covers both machine equipment as well as facilities for preserving the quality of raw material and finished products in the entire system of storage and sale.

Fish raw material is now being imported frozen in refrigerating delivery vans and kept in air-conditioned store-rooms of the various companies that are approved by the State Veterinary Administration of the Slovak Republic as quarantine warehouses. The basic structure of fish products in Slovakia made up of imported sea fish is as follows:

- various fish salads from herring, mackerel and gadiform fish (made up of approx. 35-50% fish, 20-30% vegetables, 25-35% mayonnaise) marinade (primarily of herring)
- smoked fish products (mackerel, herring, sprat)
- canned fish (mackerel, herring)

The total annual volume of fish processed in Slovakia amounts to about $15\,000$ tonnes of fish products and the direct sale of frozen sea fish and products from them to about $10\,000$ tonnes. The annual growth in consumption is estimated at about 5-8%, depending on price relations of basic fish species in world markets, as also on the price of substitute materials, primarily poultry. The greatest growth has been noted in the production of fish salads. This fact is conditioned by a slower price increase of these products, as they contain a

notable share of domestically produced raw materials (vegetables, mayonnaise) and at the same time give more room for innovated products. A certain stagnation due to the negative development in the price of raw materials (mackerel) is to be noticed in the processing of smoked fish. As a result of the negative impact of prices on world markets for cod, we also expect in the coming years a drop in the consumption of frozen fish (Alaska pollack, hake, pollack) and products made from them. Stagnation is also foreseen in the processing of canned fish, because of the high import of this line from the whole world.

Besides major processing companies (given in Appendix 7) there exist some ten firms pursuing packing and finalization of gadiform fish (e. g. sawing of blocks to smaller fillets and rewrapping into consumer packaging). There is no national strategy for fish processing, because of the absence of a co-ordinating link that would provide such a strategy and thus, strategy is being created from the bottom by the various processing firms.

5 FISH MARKET

5.1 Domestic market

The distribution of freshwater fish is carried out through producers' direct contact with retail organizations. At the present time, it is inadequately organized and is being realized solely through retail shops located in the close vicinity of producers' premises. Distribution of fresh sea fish is practically nonexistent here and there is no firm in Slovakia that would be suitably equipped for this purpose whether in terms of distribution centres or the corresponding distribution vans.

The whole distribution system in Slovakia is now adapted to the delivery of frozen and refrigerated sea fish and fish products. It is taken care of by a number of firms equipped with deep-freeze or refrigeration store-houses and a fleet of distribution vans. Distribution of frozen and refrigerated fish products in Slovakia is of a fairly good standard and deliveries are made to the whole retail system, as well as facilities of public catering. Canned fish is delivered directly to retail shops, or wholesale stores.

The consumption of fish in Slovakia per capita has increased from less than 1 kg in 1946 to 1.2 kg (1950), 3.1 kg (1961), 4.1 kg (1975), up to 4.5 kg (1997). At the present time it amounts to 4.2 kg per capita. The yearly deficit in fish consumption in Slovakia against the minimum recommended of 6 kg per capita, amounts to over 10 000 tonnes of fish and fish products.

The results of a survey carried out on a sample of 795 subjects aged over 18 years, living in various regions of Slovakia, has revealed that practically onethird (29.2%) of the respondents consume fish less than once a month, onethird (33.4%) just once a month, 18.9% twice to three times a month and 18.3% have fish on the menu once a week, or more often (5.9% more than twice a week). The same pattern also holds for the consumption of fish products -33.7% consume these less than one a month, 28.2% once a month, 17.2% twice to three times a month, 15.9% once a week and 5.0% more than once a week. Even more alarming is the situation prevailing among children and adolescents. The frequency of fish consumption followed up over the past five year period in 8 Slovak regions on a sample population of 3 142 children aged 11 - 14 and 3 686 adolescents aged 15 – 18 years has shown that practically one-fourth of our young generation (21.5% of children and 23.9% of adolescents) do not eat fish at all, one-fifth (21% of children and 18% of adolescents) take it once a month only, one-third (33.1% of children and 32.6% of adolescents) consume fish twice to three times a month and only one-quarter (24.4% of children and 25.5% of adolescents) have it more than three times a month. Similarly, canned fish is not consumed at all by a whole quarter of our young population and 20% of these take it but once a month.

5.2 Import

Over the past three years, a total of some 23 000 tonnes of fish and fish products have been imported to Slovakia annually (review given in Appendix 4 and 5). Predominant in the commodities are fish fillets and fish meat (approx. 11 684 tonnes annually, i. e. 50.7% of the total import), followed by various

products of fish meat in a mean quantity of 4 062 tonnes yearly (21.5%), whole frozen fish (4 575 tonnes or 19.8%), live fish (1 595 tonnes or 6.9%) and smoked dried or salted fish (164 tonnes or 0.7%) and finally also fresh or refrigerated fish (89 tonnes or 0.4%).

Among live fish, the carp easily dominates (1 512 tonnes annually, i.e. 95% of imports). Imported in a frozen state are primarily mackerels (39%) and clupeiform fish (37%). In the group of dry, salted or smoked fish, pride of place goes to smoked mackerel (54%) and then the clupeiform fish (30%). Fillets and meat most imported are those of hakes (22%) and clupeiforms (16%). Among meat products, those most imported are canned sardines (28%), tunas & bonitos (12%), herring (7%) and mackerel (5%). All in all, the total fish import comprises a minimum of 20% of clupeiform fish, 20% of hakes, 14% of mackerels and 8% of gadid fishes.

The import of invertebrates averages 64 tonnes per year, with a predominance of products of crustaceans (25 318 tonnes) and molluscs (18 200 tonnes). Shrimps and prawns clearly predominated among the former (63%), while first place among the latter went to lobsters and cuttlefish (27%), octopuses (24%) and mussels (23%).

The greatest quantity of live fish is imported from the Czech Republic, consisting almost exclusively of carp for Christmas, amounting to 88.6% of the total yearly import of live fish. Fresh and refrigerated fish is mostly imported from Croatia (a mean of 52% yearly of this commodity), frozen fish from the Netherlands (36.9%) and Germany (21.6%), fish fillet from Germany (38.3%), Norway (17.5%) and Peru (12.2%), dry, salted and smoked fish from the Czech Republic (56.1%), Great Britain (19.6%) and Ireland (14.8%), crustaceans from Norway (38.3%), Germany (16,5%) and Italy (13.2%), and finally molluscs from Ukraine (37.2%), Germany (18.6%), Norway (12.6%) and Denmark (11.6%).

Customs duties are levied on imported goods according to rates set down in the Combined Nomenclature Publication of the Customs Directorate of the Slovak Republic. Conventional rates of duty are used in the case of imported commodities originating in countries that are contractual parties to GATT, or those with which the Slovak Republic has concluded agreements comprising provisions on reciprocal implementation of the "Most Favoured" clause. For rates of duty, see Appendix 6.

The total import of fish and aquatic invertebrates to Slovakia represents a mean value of 763 million SKK annually.

5.3 Export

Export of fish and fish products from Slovakia over the past three years averaged 728 tonnes per year. The commodities include mostly live fish (average 258 tonnes annually, i.e. 35.4% of the total export of fish and fish products), followed by fish fillet averaging 142.6 tonnes annually (19.6%), frozen fish (an average of 87.5 tonnes, i.e. 12%), smoked fish (average 52.4 tonnes, i.e. 7.2%) and lastly fresh or chilled fish (annual average of 12.7 tonnes, i.e. 1.7%). The annual export of invetebrates averaged 21.5 tonnes which comprised 20.6 tonnes of molluscs (95.6%) and 0.8 tonnes of crustaceans.

The export of fish commodities is dominated by trout. This species constitutes 85% of frozen, 68% of fresh and 42% of live fish exports. The latter also comprise carp (21%), and other freshwater fish (20%), eels (9%) and ornamental freshwater fishes (8%). Dominant in the export of fillet fish is hake (66%), but also, though in a smaller measure, gadid fish (29%). Of smoked fish, the most exported is mackerel (52%) and trout (38%), while land snails form the greatest article of export among invertebrates.

Export to the Czech Republic predominates (an average of 505 tonnes annually, i.e. 67.3% of the whole export of fish, invertebrates and their products), then to Hungary and Austria (in approximately the same volume – a total of 130 tonnes, i. e. 17.3%).

The total value of our export of fish, aquatic invertebrates and their products represents the value of 62.9 million SKK annually.

6 STANDARDS AND QUALITY REQUIREMENTS

The fundamental claims on innocuousness and quality of foodstuffs are set down by the Law No. 152/1995. on Food. This law defines the terms and modes of testing, gives prescriptions regarding quality, mode of labelling products, universal hygienic prescriptions in the production of foodstuffs, their manipulation and introduction into circulation, hygienic prescriptions regulating shops and market places, cooling and freezing of foodstuffs and also permissible limits of contaminants in food, as also microbiological requirements. In addition, this law incorporates claims on the quality of fish meat, aquatic animals and products from them, as well as conditions for the correct production procedures (GMP), including hazard analysis of critical control points (HACCP).

The Law on Food (No. 152/1995) constitutes a framework for a gradual passing of the authorization process set down in the Alimentary Codex of the Slovak Republic. In 1996, this Codex published universal hygienic conditions for domestic and imported products, their packaging, labelling and offer, for protecting from falsification (counterfeiting), as also limits for additives and contaminants, residual pesticides of veterinary medicaments in food products. The other parts of the Alimentary Codex are included in the authorization process. The Alimentary Codex of the Slovak Republic has been approved by the Decree No. 36/1997 of the Ministry of Agriculture SR.

In keeping with the Law on Food, quality control is divided between two ministries: the Ministry of Agriculture ensures control both through the intermediary of the State Veterinary Administration which is responsible for the control of hygiene and the quality of processing animal products, and through that of the Slovak Agriculture and Food Inspection, responsible for the surveillance over the quality of foodstuffs of vegetable origin. The Ministry of Health of the Slovak Republic exercises supervision over foodstuffs and over issuing of permits for innovating new products as regards safety of the foodstuffs, protection of citizens' health and protection of the consumer.

Technological standardization in Slovakia is governed by the Office for Standards, Metrology and Testing (in terms of the NR SR Act No. 142/1991 Zb. on Slovak technical norms). The basic technical norm for sea fish is STN 57 5010 "Sea Fish Products", while the norm governing freshwater fish is the branch norm ON 57 5110 "Processing of Freshwater Market Fish". Valid for canned fish is the norm STN 57 7602 "Sterilized Canned Foodstuffs", also regulating all sterilized foodstuffs.

Foodstuffs are also subject to further laws, for instance to Act No. 272/1994 on protection of human health, Act No. 87/1987 on veterinary care (specifies claims on raw materials and products of materials of animal origin, hence also of fish), Act No. 30/1968 on State Testing (sets down conditions for introducing foodstuffs into production and circulation and also stipulates compulsory certification of products – fish and fish products are also subject to this compulsory certification) and also Act No. 634/1992 on consumer protection which sets down certain conditions in enterprising, of significance to consumer protection, duties of public administration in the domain of consumer

protection, rights of consumers or other legal persons based on consumer protection, as also further provisions referring to production, import, sale and labelling of products and providing services, prohibition of discriminating and cheating the consumer.

7 RESEARCH AND EDUCATION

In fact, there are no special fisheries research institutes in Slovakia. The former Institute of Fishery Research and Hydrobiology in Bratislava was split in 1990 into the Institute of Fishery Research and Aquaculture and the Department of Ichthyology which is now a part of the Institute of Zoology of the Slovak Academy of Sciences. However, at the Institute of Fishery Research and Aquaculture only investigations dealing with fish farming and aquaculture are pursued. Fishery and ichthyology research is realised at the Institute of Zoology of the Slovak Academy of Sciences (Bratislava). Education and research in ichthyology and fisheries is carried out by the universities, i.e. Comenius University (Department of Zoology and Department of Ecology) at Bratislava, Agricultural University (Department of Fowl and Small Farming Animals) at Nitra, and the University of Prešov (Department of Biology) at Prešov. Education and research in food hygiene, food technology, fish parasite and diseases are pursued at the University of Veterinary Medicine at Košice. Research in ichthyology is also carried out by Slovak National Museum. However, altogether only 13 persons are working in fisheries research.

There is a Technical High School of Agriculture at Ivánka pri Dunaji offering a four year course in fisheries and fish farming. The Agricultural University at Nitra provides courses in fisheries, and ichthyology is lectured at the Comenius University at Bratislava.

8 NATIONAL POLICY AND STRATEGY

By virtue of a decree of the Ministry of Agriculture of the Slovak Republic (No. 116/1998-100), subjects engaged in the domain of fisheries and fish rearing may ask for subsidies for the purpose of preserving genetically valuable fish stocks, breeding selection, improving and promoting methods of fish-farming and supporting fish production, as also for the purchase of top genetic valuable stocks from home or foreign sources. One of the conditions is that this involves fish-farming authorized by the Ministry of Agriculture in accordance with the Law on Fisheries (No. 102/1963).

Further financial resources may be obtained from the State Agriculture and Food Relief Fund near the Ministry of Agriculture SR which provides funds for the renewal of machinery and technology, improvement of competitiveness in production and export in this domain in support of private enterprise.

However, neither subsidies for technology in the fisheries industry, nor any support has been provided thus far to any subject in the fishery industry from the resources of the State Agriculture and Food Relief Fund. At the same time, the situation as regards the standard of equipment in the processing technologies is unsatisfactory, with only about 5% of fish-farmers attaining the norm; moreover, these lines fail to meet the certificates accepted in EU countries. Unfavourable conditions likewise prevail as regards conditions in the existing fish-farming installations that are considerably obsolete and polluted.

To preserve the genetically valuable fish stock, the sum of 2 mill. SKK was set apart from the budget of the Ministry of Agriculture SR in 1996, 3 mill. in 1997 and 2 mill. in 1998. However, the demands for subsidies under the present conditions exceed fivefold the sums foreseen by the budget. A further subsidy to the amount of 5 mill. SK is provided annually by the Ministry for restocking parts of the fishing-grounds, viz. major water reservoirs and streams.

The is no official strategy that would regulate export and import of fish, invertebrates and products of their flesh. Similarly, there is as yet no definite concept for regulating the development of aquaculture.

To predict the trends of further development in recreational fishing in Slovakia is hardly possible at this time. This is related to the overall developmental trend in Slovakia. We are still in the dark as regards pending amendments of laws directly related to the implementation of the fishing right as a matter of fact, a new Water Act and a new Fisheries Act are being prepared, along with the executive decrees.

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10 APPENDICES

Appendix 1 Fish species found in Slovakia

Scientific name	Common Slovak	Common English
	name	name
fam. ACIPENSERID		
Acipenser ruthenus	jeseter malý	sterlet
Acipenser gueldenstaedti	jeseter ruský	Russian sturgeon
fam. ANGUILLIDAE		
Anguilla anguilla	úhor európsky	European eel
fam. CYPRINIDAE		
Abramis ballerus	pleskáč siný	zope
Abramis bjoerkna	pleskáč zelenkavý	white bream
Abramis brama	pleskáč vysoký	common bream
Abramis sapa	pleskáč tuponosý	zobel
Alburnoides bipunctatus	ploska pásavá	schneider
Alburnus alburnus	belička európska	bleak
Aspius aspius	boleň dravý	asp
Barbus barbus	mrena severná	barbel
Barbus peloponnesius petenyi	mrena Petianova	spotted barbel
Carassius carassius	karas zlatistý	crucian carp
Carassius auratus*	karas striebristý	goldfish
Chondrostoma nasus	podustva severná	nase
Ctenopharyngodon idella*	amur biely	grass carp
Cyprinus carpio	kapor obyčajný	common carp
Gobio albipinnatus	hrúz bieloplutvý	whitefin gudgeon
Gobio gobio	hrúz škvrnitý	gudgeon
Gobio kessleri	hrúz Kesslerov	Kessler's gudgeon
Gobio uranoscopus	hrúz fúzatý	Danubian gudgeon
Hypophthalmichthys molitrix*	tolstolob biely	silver carp
Hypophthalmichthys nobilis*	tolstolob pestrý	bighead carp
Leucaspius delineatus	ovsienka striebristá	moderlieschen
Leuciscus cephalus	jalec hlavatý	chub
Leuciscus idus	jalec tmavý	ide
Leuciscus leuciscus	jalec maloústy	dace
Pelecus cultratus	šabl'a krivočiara	ziege
Phoxinus phoxinus	čerebľa pestrá	European minnow
Pseudorasbora	hrúzovec sieťovaný	stone moroco

parva*		
Rhodeus amarus	lopatka dúhová	bitterling
Rutilus meidingeri	plotica perlet'ová	Danube roach
Rutlus pigus virgo	plotica lesklá	virgo roach
Rutilus rutilus	plotica červenooká	roach
Scardinius	červenica ostrobruchá	rudd
erythrophthalmus		
Tinca tinca	lieň sliznatý	tench
Vimba vimba	nosáľ sťahovavý	zahrte
fam. COBITIDAE		
Cobitis taenia	pĺž severný	spined loach
Misgurnus fossilis	čík európsky	weatherfish
Sabanejewia	pĺž zlatistý	goldside loach
balcanica		
fam. BALITORIDAE		
Barbatula barbatula	sliž severný	stone loach
fam. ICTALURIDAE		
Ictalurus nebulosus*	sumček hnedý	brown bullhead
fam. SILURIDAE	_	XXIII XXIIIX
Silurus glanis	sumec veľký	wels catfish
fam. CLARIIDAE		
Clarias gariepinus*	klárias	North African catfish
fam. ESOCIDAE		
Esox lucius	šťuka severná	northern pike
fam. UMBRIDAE	h	
Umbra krameri	blatniak európsky	European
		mudminnow
fam. COREGONIDA	E	
Coregonus maraena*	sih maréna	whitefish
Coregonus peled*	sih peled'	peled whitefish
fam. SALMONIDAE		
Hucho hucho	hlavátka veľká	huchen
Oncorhynchus	pstruh dúhový	rainbow trout
mykiss*		
Salmo trutta morpha	pstruh potočný	brown trout
fario		
Salmo trutta morpha	pstruh jazerný	lake trout
lacustris		
Salvelinus fontinalis*	sivoň potočný	American brook trout
Salvelinus	sivoň perlovaný	lake trout
namaycush*		
fam. THYMALLIDA	E	
Thmallus thymallus	lipeň tymiánový	European grayling
fam. GADIDAE		
Lota lota	mieň sladkovodný	burbot

ivorodka pestrá ivorodka ostropyská nečovka zelená AE ichľavka siná	guppy sphenops molly swordtail three-spined
nečovka zelená AE	swordtail three-spined
AE	swordtail three-spined
ichľavka siná	
	stickleback
laváč bieloplutvý	bullhead
laváč pásoplutvý	Carpathian sculpin
Œ	
lnečnica pestrá	pumpkinseed
stračka veľkoústa	largemouth bass
The state of the s	
rebenačna vysoká	Balon's ruffe
rebenačna pásavá	ruffe
rebenačna fřkaná	schraetser
**************************************	European perch
ubáč veľkoústy	pike-perch
	eastern pike-perch
	streber
olok veľký	zingel
ýčko hlavatý	bighead goby
ýčko škvrnitý	tubenose goby
	laváč pásoplutvý E Inečnica pestrá stračka veľkoústa rebenačna vysoká rebenačna pásavá rebenačna fíkaná striež zelenkavý ubáč veľkoústy ubáč volžský olok vretenovitý olok veľký

^{*}allochthonous species

Appendix 2 Composition of anglers' catch in Slovakia 1993–1997 (in tonnes)

Species	1993	1994	1995	1996	1997
Acipenseridae					
Acipenser ruthenus	0.04	0.07	0.5	0.5	0.4
Anguillidae					
Anguilla anguilla	6.50	19.50	12.8	6.9	7.6
Cyprinidae					
Abramis brama, A. bjoerkna, A. ballerus & A. sapa	78.62	101.81	140.9	111.4	102.1
Aspius aspius	8.36	15.90	12.6	12.0	8.9
Barbus barbus	16.10	20.27	24.2	18.7	20.9
Carassius auratus & C. carassius	49.75	59.64	89.7	76.0	53.3
Chondrostoma nasus	32.57	32.33	31.4	24.0	23.2
Ctenopharyngodon idella Hypophthalmichthys molitrix & nobilis	15.53	19.18	22.7	14.7	20.9
Cyprinus carpio	612.01	778.79	1063.2	778.0	746.2
Leuciscus cephalus, L. idus & L. leuciscus	46.29	81.12	62.4	46.9	39.1
Tinca tinca	4.57	4.64	7.7	8.2	9.3
Vimba vimba	27.69	29.88	39.5	20.4	25.2
other cyprinid species	50.65	71.35	64.1	7.5	43.5
Siluridae					
Silurus glanis	14.07	20.44	25.9	21.0	21.1
Esocidae					
Esox lucius	89.18	192.83	134.0	102.6	84.6
Salmonidae					
Hucho hucho	0.25	0.47	0.6	0.7	0.8
Oncorhynchus mykiss	11.26	9.68	15.3	15.9	15.9
Salmo trutta m. fario	34.41	30.91	45.6	33.6	39.5
Salmo trutta m. lacustris	0.72	1.14	1.0	0.3	0.1
Salvelinus fontinalis	0.10	0.47	1.3	0.3	0.7
Thymallus thymallus	14.30	16.04	24.5	17.6	16.2
Gadidae					
Lota lota	0.65	2.45	2.7	1.0	2.7
Percidae					
Perca fluviatilis	18.47	29.94	31.7	17.7	11.4
Stizostedion lucioperca	52.48	89.11	93.5	76.4	69.8
TOTAL	1184.57	1627.36	1948.1	1412.5	1363.4

Appendix 3 Hatchery/nursery output in Slovakia (1993-1997)

											501	347			-	4915		323	904	36	+	223	213	1941	317	82	A 938	\$ 222
	7	pliw		1	1		1	999	1150	115	je je	るかま	455	384	746	4528		303	+ -	+ /	1	_	08/	_	7	/ /5	+	1 389
2	1997	contr.		1	1		4 681	1	436	755	3 200	330	विध	1	47	8379	400 G	1	1	1	1	1	1	1	1	1	1	-
iles, etc. for stocking	9	bliw		1	1		1	-	1 200	120	1 300	1 150	150	1	1	3 920		992	1	15	1	86	225	605	37	06	672	2 734
lings, juven nt, i.e. used	1996	confr.		ı	1		-	3 010	4 800	120	8 700	3 050	2 2 2 5 0	200	3 000	25 130		837	1	3	1	ı	1 575	1	263	70	428	3 1 7 6
rvae, finger environme	5	bliw		1	1		-	259	2 060	99	3 320	1	40	1	1.	5 737		1 250	1	145	1	345	158	292	135	158	250	3 010
Number (in thousands) of eggs, larvae, fingerlings, juveniles, etc. released to the wild or to a controlled environment, i.e. used for stocking	1995	contr.		1	1		1	3 201	3 258	583	13 000	3 100	2 500	092	3 620	30 023		1 934	1	123	1	65	3 933	1	380	1	751	7 182
n thousands wild or to	4	bliw		4 400	4 400		4 673	37	4 918	152	40	810	12	233	14	10 891		420	664	53	7	290	96	865	1	410	444	2 983
Number (in leased to the	1994	contr.		1	1		4 000	006	800	150	6 100	3 700	1 700	150	2 000	19 500		1850	1	1	1	ŀ	2 500	1	ı	1	1	1
ler ler	13	bliw		1	1		1	1	2 130	1	1	1 000	1	400	1	3 230		1	1	50	1	90	120	370	470	100	470	1 190
	1993	contr.		1	-		1	1 000	1 000	100	2 000	3 000	1 500	200	1 500	13 300		2 000	1	ı	1	1	1 900	1	200	1	1	4 400
			Fertilized eggs	Stizostedion lucioperca	Total:	+0	Cyprinus carpio	Chondrostoma nasus	Esox lucius	Silurus glanis	Oncorhynchus mykiss	Salmo trutta morpha fario	Salvelinus fontinalis	Hucho hucho	Thymallus thymallus	Total:	1+	Cyprinus carpio	Chondrostoma nasus	Silurus glanis	Esox lucius	Stizostedion lucioperca	Oncorhynchus mykiss	Salmo trutta morpha fario	Salvelinus fontinalis	Hucho hucho	Thymallus thymallus	Total:

Appendix 4 Fishes and other aquatic animals imported and exported in the years 1995-1997

		19	1995	15	9661	16	1997
Code	Description	Import	Export	Import	Export	Import	Export
		netto in kg					
	LIVE FISH	1 594 804	243 555	1 852 207	269 734	1 337 872	261 166
03 01 10 10	Omamental freshwater fish	160	8 162	1 876	49 746	3 969	7 150
03 01 10 90	Omamental saltwater fish	•	•	•	10	824	•
03 01 91 00		•	150 335	0006	77 318	1 000	96 231
03 01 92 00	-	4 900	15 400	3 485	21 800	400	32 100
03 01 93 00	Can	1 546 369	31 630	1 780 946	66 532	1 209 861	64 410
03 01 99 11	Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube (Hucho hucho) salmon	•		•	•	•	115
03 01 99 19	-	43 375	38 028	26 900	54 328	121 818	61 160
	FISH, FRESH OR CHILLED, excluding fish fillets and other fish meat	50 275	10 367	154 840	6 336	160 755	21 413
03 02 11 00	Trouts (Salmo trutta & Oncorhychus mykiss)	•	10 000	•	•	8	
03 02 11 90	-		•	•	5 400	18	20 740
03 02 12 00	-	•			•	4 973	
03 02 19 00	Other salmonids	•	•	•	•	117	
03 02 21 10	Greenland halibut (Reinhardtius hippoglossoides)	•	•		•	7	
03 02 21 30	Atlantic halibut (Hippoglossus hippoglossus)	•	•	•	•	6	
03 02 21 90	Pacific halibut (Hippoglossus stenolepis)	•	•	,	•	1	
03 02 22 00	European plaice (Pleuronectes platessa)		•	'	•	55	
03 02 23 00	Sole (Solea solea)	61	•	•	•	51	
03 02 31 90	Albacore (Thunnus alalunga)	•		•	009	46	'
03 02 40 00	Herrings (Clupea harengus & C. pallasi)	2 000	•		=	18	
03 02 50 90	Cods (other than Gadus morhua, G. ogac or G. macrocephalus)	•	40	20 970		2	
03 02 61 10	European pilchard (Sardina pilchardus)		•		•	124	
03 02 61 30		40 425	•	85 335	235	30 089	374
03 02 61 91	European sprat (Sprattus sprattus)	•	7			-	
03 02 64 00	Mackerels (Scomber scombrus, S. australasicus & S. japonicus)	•	•	46 945		73	
03 02 65 90	Sharks	•	•			13	
03 02 66 00	Eels (Anguilla spp.)	•	•	•	'	5	
03 02 69 11	Eg.	5 850	•	1 400		1 000	
03 02 69 19	Other freshwater fish	1865	•		_	30	

		19	1995	61	9661	1661	77
Code	Description	Import	Export	Import	Export	Import	Export
}		netto in kg					
03 02 69 25	Fish of the genus Euthymnus, other than the skripjack (E. (Katsuwonus) pelamys)	96	•	2	-	-	
03 02 69 33	Redfish (Sebastes spp.), other than golden redfish (Sebastes marinus)	•	•	96	1	•	
03 02 69 41	Whiting (Merlangus merlangus)	•		•	•	46	
03 02 69 55	Anchovies (Engraulis spp.)	•		,	1	789	
03 02 69 61	Common dentex (Dentex dentex) and pandoras (Pagellus spp.)	-	-			120	•
03 02 69 66	Cape hakes (Merluccius capensis & Merluccius paradoxus)	•	1	1	1	21 016	8
03 02 69 75	Portufrets (Brama spp.)				1	5	,
03 02 69 81	Monkfish (Lophius spp.)	i	ď	1	•	31	,
03 02 69 85	Blue whiting (Micromesistius poutassou)	•	1	1	1	102	
03 02 69 87	Swordfish (Xiphias gladius)	-	×.	1	•	42	•
03 02 69 94	Seabass (Dicentrarchus labrax)	Ī		1	•	1 182	
03 02 69 95	Gilthead seabream (Sparus curatus)	3	il.	1	•	119	,
03 02 69 96	Other saltwater fish	20	1	•	٠	•	٠
03 02 69 99	Other sea fishes	2,¶	210	818	,	654	1
03 02 70 00	Livers and roes	-	320	92	90	•	200
	FISH, FROZEN, excluding fish fillets and other fish meat	4 460.249	138 881	4 732 417	92 250	4 432 383	31 495
	Salmonids, excluding livers and roes	34 364	122 185	149 290	74 949	160 61	26 983
03 03 10 00	Pacific salmon (Oncorhynchus spp.)	14 425		24 922	20	5 460	+
03 03 21 00	Trouts (Salmo trutta & Oncorhynchus mykiss)	15 919	121 685	33 088	74 929	7 00 7	26 983
03 03 22 00	Atlantic salmon (Salmo salar)	4 020	I	9 810	1	609 9	1
03 03 29 00	Other salmonids	1	500	81 470	1	15	1
	Fint fishes (Pieuronectidae, Bothidae, Cynoglossidae, Soleidae, Scophthal-midae & Citharidae), excl. livers and roes	28 888	964	3 798	ı	2 057	1
03 03 31 10	Greenland halibut (Reinhardtius hippoglossoides)	797	-	1 647	-	575	ı
03 03 32 00	European plaice (Pleuronectes platessa)	386	31	571	1	493	•
03 03 33 00	Sole (Solea spp.)	798	-	200	-	•	-
03 03 39 10	Flounder (Platichthys flesus)	785	400	-	-	•	-
03 68 60 60	Other slatsishes	26 122	•	1 380	,	686	•
	Tunas, excluding livers and roes	909	1	46 325	1	009	S
03 03 42 90	Yellowfin tuna (Thumus albacares)	009	81•3	22 005	ı	200	S
03 03 49 90	Other species of tuna	1	•	24 320	1	400	•
	Herrings, excluding livers and roes	1 418 680	•	1 659 976	•	1 995 311	22
03 03 20 00	Herrings (Clupea harengus, С. pallast)	1 418 680	-	1 659 976	1	1 995 311	22

		2	1005	01	300%	19	1997
		41					
Code	Description	Import	Export	Import	Export	Import	Export
1		netto in kg					
	Cade materifier liver and rook	28 423		21 098	•	\$ 072	-
	Course extending investment	19 556		21 098	•	72	,
03 03 00 11	Atlantic cod (Jagus morning)	8 867			-	5 000	•
03 03 60 19	Greenland cod (Gadus ogac)	2 949 294	16 296	2 851 810	17 301	2 410 252	4 466
	Other 15th, excluding livers and roes				77	300	
03 03 71 30	Pilchards (sardines) of the genus Nardinops, sardinellas (Sardinella spp.)	10.416		3 578		11 634	'
03 03 71 90	European sprat (Sprattus sprattus)	10410		0700			
01 03 72 00	Haddock (Melanogrammus aeglefinus)	19 997			-	•	•
03 03 73 00	Saithe or pollock (Pollachius vivens)	104 672	2 700	23 180		88	-
01 02 74 10	A stantic mackere! (Scomber scombrus) and chub mackere! (S. japonicus)	1 809 119	1716	1 796 907	•	1 706 376	38
00 47 60 60	Discussive (Combar metrolating)	2 2 4 3	•	2 703	•		1
03 03 75 30	Diffe Hankelet (Leviner time) in the property of the property	•		152	•	22 736	
02 C/ 50 50	Pirkel of spiny ungaran transmission			•	1	350	31
03 03 75 50	Catsharks (Squittornams spp.).	17 774	•	3 265		5 525	Ŋ
03 03 75 90	Other sharks	30710		144	-	172	
03 03 76 00	Eels (Anguilla spp.)	C74 17	-	117 007	4.600	135 559	-
03 03 78 10	Hakes of the genus Merluccius	354 338		402 414	4 006	900 001	0000
03 03 78 11	Cape hakes (Merluccius capensis & M. paradoxus)	-		-	-	31 108	5 729
03 03 78 12	Argentine hake (Merluccius hubbsi)	,	'		-	50 449	-
03 03 28 00	Hakes of the penus Translacis	44 192	•	20 010	•	13 193	,
03 03 78 70	June 1 and Britain	25 560	1	47 368	520	33 194	
01 07 00 00	Other freshwater fish	11 218	,	13 077	•	15 021	•
03 03 70 31	Fish of the genus Futhunus, other than the skippack (E. (Katsuwonus) pelamys)	80 892	9	61 494	1	53 880	
03 03 79 35	Golden redfish (Schastes marinus)	1 544	•	1 231		1 544	
03 03 03 55	A laska pollack (Theragra chalcogramma) and pollack (Pollachius pollachius)	251 535	٠	222 567	-	104 630	432
03 03 79 65	Anchovies (Energulis SDC.)	**	•	'	_	10 054	-
03 03 79 75	Pomfreix (Brama son.)	•	•	1		8	-
03 03 70 83	Blue whiting (Micromesistius poutassou)	103 160	•	•	•	77 100	t
02 02 70 95	Southern blue whiting (Micromexisting australis)	-	•	•	•	1 940	Ð
03 03 70 87	Surardich (Ynhias oladius)	001	٠	150	•	400	•
03 03 70 01	A Hanric hare markerel (Trachurus trachurus)	2 168	•			2 094	1
16.67 50 50	Nighto in the contract management and the contract managem			5616	1	1121	.1
03 03 70 00	Side gicilanic (Maria Ones no recomment)	88 941	11 880	248 004	12 096	130 775	
03 03 79 96	Other sanwarer rish		1	120	-		19
03 03 80 00	Livers and rock						

		61	995	19	1996	1661	74
Code	Description	Import	Export	Ітроп	Ехроп	Import	Export
		netto in kg					
	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen	10 890 790	198 626	11 599 377	116 416	12 591 235	122 819
	Fresh or chilled fillets	185 785	•	248 847	9/	180 348	
03 04 10 13	Of Pacific salmon (Oncorhynchus spp.), Atlantic salmon (Salmo salar)	222	•	2 557	48	I	•
03 04 10 31	Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida)	38 604	•	32 145		21 385	•
03 04 10 33	Of saithe or pollock (Pollachius virens)	20 790	: ■	84 461	ă1	151 816	
03 04 10 38	Of other fish	126 169	•	129 684	28	7 146	•
	Fresh or chilled other fish meat (whether or not minced)	4 646	•	46 200	:10	164 386	•
03 04 10 93	Flaps of herring	4 646		46 200	1	164 376	1
03 04 10 98	Flaps of other fish	1	,	1	•	10	•
	Frozen fillets	10 027 226	198 626	10 585 524	116 290	10 942 579	112 819
03 04 20 11	Of trouts (Salmo trutta & Oncorhynchus mykiss)	•	2 524	1 000	•	ı	1890
03 04 20 13	Of Pacific salmon (Oncorhynchus spp.) and Atlantic salmon (Salmo salar)	3 369	ı	21 910	5	7 934	C
03 04 20 19	Of other freshwater fish	20 970	ा	22 233	1	18 045	1
03 04 20 21	Of pacific cod (Gadus macrocephalus)	7 813	,	162 705	•	-	1
03 04 20 29	Of other cod species	321 653		588 382	1 518	111 180	62
03 04 20 31	Of saithe or pollock (Pollachius virens)	75 646	•	142 614	21 744	89 922	•
03 04 20 33	Of haddock (Melanogrammus aeglefinus)	66 693		104 479	•	026	•
03 04 20 35	Of golden redfish (Sebastes marinus)		1	•	•	396	*
03 04 20 37	Of redfish (Sebastes spp.) other than S. maritus	373 188	190	219 848	100	88 635	1
03 04 20 41	Of whiting (Merlangius merlangus)	χJ	3 1	43 680	1	155 316	J
03 04 20 45	Of tuna (of the genus Thunnus) and of fish of the genus Euthymnus	24 316	,	200	-	4	1
03 04 20 51	Of bive mackerel (Scomber australasicus)	80 547	,	51 568	•	48 323	t
03 04 20 53	Of other mackerel species	836 325	3 210	551 511	•	359 155	•
03 04 20 56	Of Argentine hake (Merluccius hubbst)	-	-	•	•	249 692	20 250
03 04 20 58	Of other hakes of the genus Merluccius	2 952 128	173 348	2 951 667	72 186	1 761 098	23 900
03 04 20 59	Of hakes of the genus Urophycis		•	23 260	•	30 237	1
03 04 20 61	Of dogfish (Squalus acanthias and Scilliorhiaus spp.)	:∎	•	420	1	18 000	§ 1 €
03 04 20 69	Of other sharks	9999	-	6227	1	31 403	-
03 04 20 71	Of European plaice (Pleuronectes platessa)	,		110	-	50	1
03 04 20 73	Of flounder (Platichthys flesus)	8	•	•	•	1 493	
03 04 20 75	Of herring (Clupea harengus, Clupea pallast)	2 084 584	•	1 746 465	•	1 468 255	-
03 04 20 83	Of anglers or monkfish (Lophius spp.)	•	,	17	•	_	-

		1995	35	19	1996	1997	7
Code	Description	Import	Export	Import	Export	Import	Export
		netto in kg					
03 04 20 85	Of Alaska poliack (Theragra chalcogramma)	1 175 675	16 651	2 234 288		5 427 776	46 794
03 04 20 96	Of other saltwater fish	1 997 561	2 793	1 712 940	20 737	1 064 695	19 923
12.4	Other	673 133	,	718 801	55	1 303 922	-
03 04 90 05	Surim	2 123	-	3 005	•	20 265	1
03 04 90 10	Of freshwater fish	•	_	•	-	996	1
03 04 90 20	Of herrings (Clupea harengus & Clupea pallass)	45 516	1	049 69	•	107 660	,
03 04 90 35	Of Pacific cod (Gadus macrocephalus)	•		24 200	•	-	•
03 04 90 39	Of other species of the genus Gadus	•	_	•	50	,	
03 04 90 47	Of hakes of the genus Merluccius	-		49 589		29 480	1
03 04 90 57	Of monkfish (Lophius spp.)	•	,	•		20 400	-
03 04 90 59	Of blue whiting (Micromesistius poutassou)	ı	-	21 588	•	850 450	
03 04 90 61	Of Alaska pollack (Theragra chalcogramma)	•	-	20 882	1	999 16	,
03 04 90 97	Of other saltwater fish	625 494	-	499 872		177 035	٠
	FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH	156 778	4 273	156 128	63 196	178 775	89 830
03 05 10 00	Flours, meals and pellets of fish fit for human consumption	•	,	=		Ţ	
	Fish fillets, dried, salted or in brine but not smoked	16 768	1 649	2 878	730	26	#
03 05 30 11	Of Pacific cod (Gadus macrocephalus)	'	180	•	-	•	48
03 05 30 19	Of cods (Gadus spp.)	13 700	1 469		730	ſ	1
03 05 30 30	Of Pacific (Oncorhynchus spp.) and Atlantic (Salmo salar) salmon, salted or in brine	•		1	٠	97	1
03 05 30 90	Of other fish	3 068	•	2 827	1		I.
	Smoked fish, including filets	139 864	2 624	152 462	62 466	178 680	84 569
03 05 41 00	Pacific salmon (Oncorhynchus spp.) and Atlantic salmon (Salmo salar)	3 395		5 529	53 953	2 458	-
03 05 42 00	Нетіпдѕ (Сіцреа harengus & Ciupea pallasi)	25 390		24 439	6 788	100 755	28
03 05 49 30	Mackerels (Scomber scombrus, S. australasicus & S. japonicus)	67 812	100	122 494	1 725	74 374	80 289
03 05 49 40	Trouts (Salmo truita & Oncorhynchus mykiss)	-	2 374	•		1	4 065
03 05 49 50	Eels (Anguilla spp.)	•	10	•	1	33	•
03 05 49 80	Other fish	43 267	140	٠	•	1 001	187
	Dried fish, whether or not salted	•	•	10	•	1	3
03 05 59 90	Other fish	•	1	9	1		3
	Fish salted but not dried or smoked and fish in brine	146	1	832	1	38	5210
03 05 61 00	Нетіпgs (Clupea harengus & Clupea pallasi)	1	,	830	,	•	5 210
03 05 69 90	Other fish	146	•	2	-	89	-

		61	1995	61	9661	19	1997
Code	Description	Import	Export	нофиј	Export	Import	Ехроп
		netto in kg	netto in kg	netto in kg	petto in kg	netto in kg	netto in kg
	CRUSTACEANS	16 085	1 604	20 018	549	21 645	340
	Frozen	12 639	694	15 700	7	19 613	
03 06 11 90	Rock lobsters and other sea crawfish (Palinurus spp., Panulirus spp. & Jasus spp.)	-	7	80		46	a)
03 06 12 10	Lobsters (Homarus spp.) - whole	08	•	360	•	45	,
03 06 12 90	Lobsters (Homarus spp.) - other	1	1	7		1	5.00
03 06 13 10	Shrimps and prawns of the family Pandalidae	200	1	192	•	251	•
03 06 13 30	Strimps of the genus Crangon	-	1	1	-	450	•
03 06 13 50	Shrimps of the genus Penaeus	•		•		1316	
03 06 13 80	Other shrimps and prawns	10 641	•	11 558	4	11 631	
03 06 14 30	Edible crab (Cancer pagurus)	1	1	1	1	701	
03 06 14 90	Other crabs	504	٠	,	J	2 782	•
03 06 19 10	Freshwater crayfish	4.	•	576		-	
03 06 19 90	Other crustaceans, including flours, meals and pellets, fit for human consumption	1 200	694	2 927	1	196 2	•
	Not frozen	3 446	910	4318	\$45	2 032	340
03 06 21 00	Spiny lobsters & rock lobsters (Palinurus spp., Panulirus spp. & Jasus spp.)	•	,	3. L 3	8.18	£	•
03 06 22 10	Lobsters (Homanus spp.) - live		-	•	1	2	1
03 06 22 91	Lobsters (Homarus spp.) - whole	450	•	1 000		7	•
03 06 22 99	Lobsters (Homarus spp.) - other	•	,	1	•	11	1
03 06 23 10	Shrimps and prawns of the family Pandalidae	•	ì	1		9	•
03 06 23 31	Crangonid shrinips (family Crangonidae)	•	ŀ	•	111	23	1
03 06 23 90	Shrings and prawns	-	-	200	•	•	•
03 06 24 30	Edible crab (Cancer pagurus)	-	•	-	-	4	•
03 06 24 90	Crabs other than Paralithodes camtschatica, Chionectes spp. & Cancer pagurus		•	200	1	•	•
03 06 29 10	Freshwater crayfish	6	•	•	-	•	•
03 06 29 30	Norway tobster (Nephrops norvegicus)	1	1	24	9	168	r
93 06 29 90	Other crustaceans, incl. flours, meals and pellets, fit for human consumption	2 987	910	2 918	545	1 768	340
	MOLLUSCS, whether in shell or not, other AQUATIC INVERTEBRATES	26 263	35 433	22 329	21 480	17 340	4 900
03 07 10 10	Flat oysters (Ostrea spp.) - live	٠		-	•	61	
03 07 10 90	Flat oysters (Ostrea spp.) - other	1	્ર•	1 558		470	1
03 07 21 00	Scallops - live, fresh or chilled	424		200	•	•	1
03 07 29 10	Common scallop (Pecten maximus)		•		•	12	•
03 07 31 10	Mussels (Adyritus spp.) - live, fresh or chilled	-		•	9	04	•

		5	1995	61	1996	1661	L
Code	Description	Import	Export	Іпфол	Ехроп	Import	Ехроп
3	•	netto in kg					
01 02 70 50	Museule (Maribus con) - other	1 109	1	2156	•	1180	1
03 07 30 90	Mussels (Perm spp.)	150		r		92	*
01 07 41 10	Outle fish (Smia officinalis Rossia macrosoma, Sepiola spp.), not live, fresh or chilled			92	•	15	•
03 07 41 99	Other sounds	•	•	1	•	4	٠
03 07 40 01	Teeser cuttler fish (Seniola Tondeleti)	145	25			•	*
63 07 49 11	1	-	-		1	756	
03 07 49 18		-	-	90	1		-
03 07 40 35	Inline pataentia - frozen	1014	-	089		726	•
03 07 40 38	Other I alian strenis	108		,	•	09	1
03 07 70 50	Other sounds - frazen	•		,	•	1 260	
03 07 49 99	Other souids - other		*	120	•	612	-
03 07 51 00	Octomus (Octomus spp.) - live fresh or chilled		_	350	,	15	•
03 07 59 10	Octopus (Octopus spp.) - frozen	1 229	-	1 074		2 307	-
03 07 60 00	Snails, other than sea snails - live, fresh or chilled	1	17 958		17 800	4	-
03 07 91 00	Other aquatic invertebrates - live, fresh or chilled	19 190	16 300	7 680	1180	3 900	4 500
03.07.09.13	Strined venus and other species of the family Veneridae - frozen	499	•	3 095	1		-
03 07 99 18	Other aguatic invertebrates - frozen	1 129	•	4 904	1 700	016	400
03 07 99 90	Other aquatic invertebrates - other than frozen	1 266	1 150	40	800	4 958	
	TOTAL	17 195 244	632 739	18 537316	196 695	18 640 005	521 963

Appendix 5 Preparations of meat of fish and other aquatic animals exported and imported in the years 1995-1997

Code		1	1995	15	9661	19	1661
apon code	Description	Import netto in kg	Export netto in kg	Import netto in kg	Export netto in ke	Import netto in ko	Export netto in kg
	EXTRACTS AND JUICES OF MEAT, fish or crustaceans, molluses or other aquatic invertebrates			852	1 100	0	
6 03 00 30	In immediate packing of a net content more than 1 kg but less than 20 kg		•	•	1 100		
16 03 00 90	In immediate packing of a net content more than 20 kg		•	852		-	
	PREPARED OR PRESERVED FISH; CAVIAR and caviar substitutes	4 236 043	96 179	5 276 787	133 177	5 373 828	315 611
	Fish whole or in pieces, but not minced	2 764 930	83 323	3 744 564	24 347	3 671 947	103 632
16 04 11 00	Salmon	804		3 289	2	4	343
16 04 12 10	Herrings - fillets, raw, merely coated with batter or breadcrumbs, deep frozen	8 047	•	27 483	15	10 032	1 971
16 04 12 91	Herrings – in airtight containers	63 234	•	101 154	25	105 639	4 351
16 04 12 99	Herrings – other	311 916	717	248 347	124	225 102	
6 04 13 11	Sardines – in olive oil	24 136	6 007	69 226	54	128 463	63
16 04 13 19	-	721 064	21 306	1 440 978	6 382	869 563	19 628
16 04 13 90	Sardinella and brisling or sprats	349 362	6 202	273 253	1 325	322 612	56 916
16 04 14 00	Tunas and skipjack	328 736	12 405	491 136	4 422	406 504	261
16 04 15 11	Mackerels of the species Scomber scombrus and S. japonicus - fillets	42 540		12 500	40	4 686	
16 04 15 19	Mackerel s of the species Scomber scombrus and S. japonicus - other	198 863	12 704	248 638	8 153	160 641	
16 04 15 90	Blue mackerel (Scomber australasicus)	33 033	•	3 918	1 550	8 082	
6 04 16 00	Anchovies	2				•	•
16 04 19 10	Salmonidae, other than salmon	70	1	2 047			
16 04 19 39	Fish of the genus Euthynnus, other than skipjack (Euthynnus (Katsuwonus) pelamis)	09	1	2772			
16 04 19 91	Other fish, fillets, raw, merely coated with batter or breadcrumbs, deep frozen	465 717	1 940	620 306	1810	1 053 301	20 099
16 04 19 92	Cods (Gadus morhua, G. ogac, G. macrocephalus)	•	•	40 764		60 637	
16 04 19 93	Saithe (Pollachius virens)	1	•	•		3 364	
16 04 19 94	Hakes (Merluccius spp., Urophycis spp.)	139 161	20 160	1 900	•	066	
16 04 19 95	Alaska pollack (Theragra chalcogramma) and pollack (Pollachius pollachius)	12 549	•	12 330	445	73 624	
16 04 19 98	Other fish	65 636	1 882	144 523	,	238 703	•
	Other prepared or preserved fish	1 466 657	12 850	1 526 996	108 815	1 690 830	210 907
16 04 20 05	-	320	•	100	•	-	
16 04 20 10	- 14	3 049		4271	1 496	6 692	
16 04 20 30	Of salmonidae, other than salmon	20 880		22 181	70	1	1

2		61	1995	19	1996	19	1997
رمطه	Description	Import	Export	µо d ш]	Export	mport	Export
3	A CLEAN CO	netto in kg	netto in kg	netto in kg	netto in kg	netto in kg	netto in kg
16 04 20 40	Ofanchovies	22 972	1	889 6	864	4316	•
16 04 20 50	Of surfuses, bonito, mackerels of the species Scomber scombrus & S. japonicus, and nlain bonito (Dremopsis unicolor)	329 637	12 303	308 207	52	480 004	6 778
16.04.20.70	1	91 219	12	185 548	112	231 290	•
16.04.20.90	+-	088 880	535	100 766	106 221	968 528	204 129
200	Caviar and caviar substitutes	4 456	9	5227	15	11 051	1 072
16.04.30.10	Cavia	2 221	9	3 361	15	4 139	1 071
16 04 30 90	-	2 235		1 866	-	6 912	T
	┿	29 957	-	727 62	75	14 866	41
16.05 10.00	Crab	4 905	-	2 936	1	•	-
16 05 20 10	Shrimus and prawns - in airtight confainers	1 235	•	3 004	24	169	1
16 05 20 91	Shrimps and prawns - in immediate packings of a net content not exceeding 2 kg	029	-	250	,	70	22
16 05 30 90	-	1			•	1	15
16 05 40 00	+-	780	-	3 666	1	,	-
16 05 90 11	Mussels (Mytilus spp., Perna spp.) - in airtight containers	5 102	•	1 393	10	130	
16 05 90 19	1	9775	•	4814	-	4719	1
16 05 90 30	+	2 797	-	150	21	3766	4
16 05 90 90	+	4 693		7 514	20	5 490	1
TOTAL		4 266 900	96 179	5 301 366	134 352	5 388 694	315 652
							200

Appendix 6 List of import tariffs of fish and other aquatic animals (valid from 1st January 1999)

CN Code	Description	Rate o	STEELS STREET
		auto- nomous	conven- tional
	LIVE FISH		
03 01 10 10	Ornamental freshwater fishes	free	free
03 01 10 90	Ornamental saltwater fishes	free	fre
03 01 91 10	Trouts of the species Oncorhynchus apache & O. chrysogaster	5.0	fre
03 01 91 90	Other trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	7.0	6.
03 01 92 00	Eels (Anguilla spp.)	5.0	fre
03 01 93 00	Carp	12.0	10.
03 01 99 11	Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube (Hucho hucho) salmon	5.0	fre
03 01 99 19	Other freshwater fishes	5.0	fre
03 01 99 90	Other saltwater fishes	7.0	6.
	FISH, FRESH OR CHILLED, excluding fish fillets and other fish meat		
03 02 11 10	Trouts of the species Oncorhynchus apache & O. chrysogaster	5.0	fre
03 02 11 90	Other trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	5.0	1.
03 02 12 00	Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube (Hucho hucho) salmon	5.0	fre
03 02 19 00	Other salmonids	5.0	fre
03 02 21 10	Greenland halibut (Reinhardtius hippoglossoides)	5.0	fre
03 02 21 30	Atlantic halibut (Hippoglossus hippoglossus)	5.0	fre
03 02 21 90	Pacific halibut (Hippoglossus stenolepis)	5.0	fre
03 02 22 00	European plaice (Pleuronectes platessa)	5.0	fre
03 02 23 00	Soles (Solea spp.)	5.0	fre
03 02 29 10	Megrims (Lepidorhombus spp.)	5.0	fre
03 02 29 90	Other flatfishes	5.0	fre
03 02 31 00	Albacore (Thunnus alalunga)	5.0	fre
03 02 32 00	Yellowfin tuna (Thunnus albacares)	5.0	fre
03 02 33 00	Skipjack or stripe bellied bonito (Euthynnus (Katsuwonus) pelamys)	5.0	fre
03 02 39 00	Other tunas	5.0	fre
03 02 40 00	Herrings (Clupea harengus & C. pallasi)	5.0	fre
03 02 50 00	Cods (Gadus morhua G. ogac or G. macrocephalus)	5.0	fre
03 02 61 00	Pilchards (Sardina pilchardus, Sardinops spp.), sardinellas (Sardinella spp.) and sprats (Sprattus sprattus)	5.0	fre
03 02 62 00	Haddock (Melanogrammus aeglefinus)	5.0	fre
03 02 63 00	Coalfish (Pollachius virens)	5.0	fre
03 02 64 00	Mackerels (Scomber scombrus, S. australasicus & S. japonicus)	5.0	fre
03 02 65 00	Dogfishes and other sharks	5.0	fre
03 02 66 00	Eels (Anguilla spp.)	5.0	fre
03 02 69 11	Carp	12.0	0.
03 02 69 19	Other freshwater fishes	5.0	fre
03 02 69 20	Fishes of the genus Euthynnus, other than the skipjack (E. (Katsuwonus) pelamys)	5.0	fre
03 02 69 31	Redfishes (Sebastes spp.)	5.0	fre
03 02 69 35	Polar cod (Boreogadus saida)	5.0	fre
03 02 69 41	Whiting (Merlangius merlangus)	5.0	fre
ON C. I		Rate	of duty
CN Code	Description	auto- nomous	conver
03 02 69 45	Ling (Molva molva)	5.0	fre
03 02 69 51	Allaska pollack (Theragra chalcogramma) and pollack (Pollachiuu pollachius)	5.0	fre
03 02 69 55	Anchovies (Engraulis sp.)	5.0	fre
03 02 69 61	Common dentex (Dentex dentex) and pandoras (Pagellus spp.)	5.0	fre

03 02 69 66	Cape hakes (Merluccius capensis & Merluccius paradoxus)	5.0	free
03 02 69 67	Southern hake (Merluccius australis)	5.0	free
03 02 69 68	Other hakes of the genus Merluccius	5.0	free
03 02 69 69	Hakes of the genus Urophycis	5.0	free
03 02 69 75	Pomfrets (Brama spp.)	5.0	free
03 02 69 81	Monkfishes (Lophius spp.)	5.0	free
03 02 69 85	Blue whiting (Micromesistius poutassou)	5.0	free
03 02 69 86	Southern blue whiting (Micromesistius australis)	5.0	free
03 02 69 87	Swordfish (Xiphias gladius)	5.0	free
03 02 69 91	Atlantic horse mackerel (Trachurus trachurus)	5.0	
		5.0	free
03 02 69 92	Pink cusk-eel (Genypterus blacodes)	+	free
03 02 69 93	Fish of the species Kathetostoma giganteum	5.0	free
03 02 69 94	Seabass (Dicentrarchus labrax)	5.0	free
03 02 69 95	Gilthead seabream (Sparus auratus)	5.0	free
03 02 69 99	Other saltwater fishes	5.0	free
03 02 70 00	Livers and roes	5.0	free
7/125 (0 /0 /0 /0	FISH, FROZEN, excluding fish fillets and other fish meat	1	
	Salmonids, excluding livers and roes		
03 03 10 00	Pacific salmon (Oncorhynchus spp.)	5.0	free
03 03 21 10	Trouts of the species Oncorhynchus apache and O. chrysogaster	5.0	free
03 03 21 90	Other trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	7.0	0.1
03 03 22 00	Atlantic salmon (Salmo salar) and Danube salmon (Hucho hucho)	5.0	free
03 03 29 00	Other salmonids	5.0	free
	Flat fishes (Pleuronectidae, Bothidae, Cynogiossidae, Soleidae, Scophthal- midae & Citharidae), excl. livers and roes		
03 03 31 10	Greenland halibut (Reinhardtius hippoglossoides)	5.0	free
03 03 31 30	Atlantic halibut (Hippoglossus hippoglossus)	5.0	free
03 03 31 90	Pacific halibut (Hippoglossus stenolepis)	5.0	free
03 03 32 00	European plaice (Pleuronectes platessa)	5.0	free
03 03 33 00	Soles (Solea spp.)	5.0	free
03 03 39 10	Flounder (Platichthys flesus)	5.0	free
03 03 39 20	Megrims (Lepidorhombus sp.)	5.0	free
03 03 39 30	Sand flounders (Rhombosolea spp.)	5.0	free
03 03 39 80	Other flatfishes	5.0	free
05 05 57 00	Tunas, excluding livers and roes	1 0.0	.,,,,,
03 03 41 00	Albacore (Thunnus alalunga)	5.0	free
03 03 42 00	Yellowfin tuna (Thunnus albacares)	5.0	free
	NAME OF THE PARTY		
03 03 43 00	Skipjack or stripe bellied bonito (Euthynnus (Katsuwonus) pelamys)	5.0	free
03 03 49 00	Other tunas	5.0	free
02.02.50.00	Herrings, excluding livers and roes		-
03 03 50 00	Herrings (Clupea harengus, C. pallasi)	5.0	free
CN Code	Description	Rate o	
		nomous	conven- tional
	Cods, excluding livers and roes		
03 03 60 11	Atlantic cod (Gadus morhua)	5.0	free
03 03 60 19	Greenland cod (Gadus ogac)	5.0	free
03 03 60 90	Pacific cod (Gadus macrocephalus)	5.0	free
	Other fish, excluding livers and roes	10.00	
03 03 71 10	European pilchard (Sardina pilchardus)	5.0	free
03 03 71 30	Pilchards (sardines) of the genus Sardinops and sardinellas (Sardinella spp.)	5.0	free
03 03 71 90	European sprat (Sprattus sprattus)		
03 03 72 00	Haddock (Melanogrammus aeglefinus)	5.0	free
03 03 73 00	Saithe, or pollock (Pollachius virens)	5.0	free
03 03 74 10	Atlantic mackerel (Scomber scombrus) and chub mackerel (S. japonicus)	5.0	free
	A Transfer of Contract and the Contract (1997) (1997)	1 3.0	1100
03 03 74 90	Blue mackerel (Scomber australasicus)	5.0	free

03 03 75 50	Catalanda (Sauliantiana ann.)	5.0	
03 03 75 00	Catsharks (Scylliorhinus spp.).	5.0	free
03 03 75 90	Other sharks	5.0	free
03 03 76 00	Eels (Anguilla spp.)	5.0	free
03 03 77 00	Seabass (Dicentrarchus labrax) and spotted sea bass (D. punctatus)	5.0	free
03 03 78 11	Cape hakes (Merluccius capensis & M. paradoxus)	5.0	free
03 03 78 12	Argentine hake (Merluccius hubbsi)	5.0	free
03 03 78 13	Souther hake (Merluccius australis)	5.0	free
03 03 78 19	Other hakes of the genus Merluccius	5.0	free
03 03 78 90	Hakes of the genus Urophycis	5.0	free
03 03 79 11	Carp	5.0	0.6
03 03 79 19	Other freshwater fishes	5.0	free
03 03 79 20	Fish of the genus Euthynnus, other than the skipjack (E. (Katsuwonus) pelamys)	5.0	free
03 03 79 35	Redfishes (Sebastes spp.)	5.0	free
03 03 79 41	Polar cod (Boreogadus saida)	5.0	free
03 03 79 45	Whiting (Merlangius merlangus)	5.0	free
03 03 79 51	Ling (Molva molva)	5.0	free
03 03 79 55	Alaska połlack (Theragra chalcogramma) and pollack (Pollachius pollachius)	5.0	free
03 03 79 6	Plain bonito (Orcynopsis unicolor)	5.0	free
03 03 79 65	Anchovies (Engraulis spp.)	5.0	free
03 03 79 71	Common dentex (Dentex dentex) and pandoras (Pagellus spp.)	5.0	free
03 03 79 75	Pomfrets (Brama spp.)	5.0	free
03 03 79 81	Monkfishes (Lophius spp.)	5.0	free
03 03 79 83	Blue whiting (Micromesistius poutassou)	5.0	free
03 03 79 85	Southern blue whiting (Micromesistius australis)	5.0	free
03 03 79 87	Swordfish (Xiphias gladius)	5.0	free
03 03 79 91		5.0	
03 03 79 91	Atlantic horse mackerel (Trachurus trachurus)		free
	Blue grenadier (Macruronus novaezealandiae)	5.0	free
03 03 79 93	Pink cusk-eel (Genypterus blacodes)	5.0	free
03 03 79 94	Fish of the species Pelotretis flavilatus and Peltorhamphus novaezealandiae	5.0	free
03 03 79 95	Fish of the species Kathetostoma giganteum	5.0	free
03 03 79 96	Other saltwater fish	5.0	free
03 03 80 00	Livers and roes	5.0	free
		7.000000	
CN Code	Description	Rate o	
CN Code	Description	Rate o	conven-
CN Code		Rate o	
CN Code	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen	Rate o	conven-
	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets	Rate o	conven- tional
03 04 10 11	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	Rate o auto- nomous	conven- tional
03 04 10 11 03 04 10 13	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho)	Rate o auto- nomous 5.0 5.0	conventional free
03 04 10 11 03 04 10 13 03 04 10 19	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes	8ate of auto-nomous 5.0 5.0 5.0	free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida)	5.0 5.0 5.0 5.0	free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens)	5.0 5.0 5.0 5.0 5.0	free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.)	5.0 5.0 5.0 5.0 5.0 5.0	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish	5.0 5.0 5.0 5.0 5.0	free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced)	St.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish	S.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes	S.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 33 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94 03 04 10 98	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94 03 04 10 98 03 04 20 11	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 35 03 04 10 38 03 04 10 91 03 04 10 94 03 04 10 98 03 04 20 11 03 04 20 13	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sabastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho)	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 35 03 04 10 38 03 04 10 38 03 04 10 94 03 04 10 98 03 04 20 11 03 04 20 19	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of other freshwater fish	Rate o auto- nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 35 03 04 10 38 03 04 10 38 03 04 10 94 03 04 10 98 03 04 20 11 03 04 20 19 03 04 20 19 03 04 20 20	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of other freshwater fish Of cods (Gadus morrhua, G. macrocephalus, G. ogac) and Polar cod (Boreogadus saida)	Store of autonomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free
03 04 10 11 03 04 10 13 03 04 10 19 03 04 10 31 03 04 10 35 03 04 10 38 03 04 10 38 03 04 10 94 03 04 10 98 03 04 20 11 03 04 20 19 03 04 20 20 03 04 20 29	FISH FILLETS & OTHER MEAT (whether or not minced), fresh, chilled or frozen Fresh or chilled fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar), and Danube salmon (Hucho hucho) Of other freshwater fishes Of cods (Gadus morhua, G. ogac, G. macrocephalus) and polar cod (Boreogadus saida) Of saithe or pollock (Pollachius virens) Of redfishes (Sebastes spp.) Of other saltwater fish Fresh or chilled other fish meat (whether or not minced) Of freshwater fish Flaps of herring Flaps of other saltwater fishes Frozen fillets Of trouts (Salmo trutta, Oncorhynchus mykiss, etc.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of other freshwater fish Of cods (Gadus morrhua, G. macrocephalus, G. ogac) and Polar cod (Boreogadus saida) Of other cod species	Rate o auto-nomous 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	free free free free free free free free

		60	6
	Of redfishes (Sebastes spp.) other than S. marinus	5.0	free
	Of whiting (Merlangius merlangus)	5.0	free
	Of lings (Molva spp.)	5.0	free
	Of tuna (of the genus Thunnus) and of fish of the genus Euthynnus	5.0	free
	Of blue mackerel (Scomber australasicus)	5.0	free
	Of other mackerel species	5.0	free
	Of cape hakes (Merluccius capensis and M. paradoxus)		
3 04 20 56	Of Argentine hake (Merluccius hubbsi)	5.0	free
	Of other hakes of the genus Merluccius	5.0	free
	Of hakes of the genus Urophycis	5.0	free
03 04 20 61	Of pickled dogfish (Squalus acanthias) and catsharks (Scilliorhinus spp.)	5.0	free
03 04 20 69	Of other sharks	5.0	free
03 04 20 71	Of European plaice (Pleuronectes platessa)	5.0	free
3 04 20 73	Of flounder (Platichthys flesus)	5.0	free
03 04 20 75	Of herrings (Clupea harengus & Clupea pallasi)	5.0	free
03 04 20 79	Of megrims (Lepidorhombus spp.)	5.0	free
3 04 20 81	Of pomphrets (Brama spp.)	5.0	free
03 04 20 83	Of anglers or monkfishes (Lophius spp.)	5.0	free
03 04 20 85	Of Alaska poilack (Theragra chalcogramma)	5.0	free
03 04 20 87	Of swordfish (Xiphias gladius)	5.0	free
03 04 20 91	Of blue grenadier (Macruronus novaezealandiae)	5.0	free
03 04 20 96	Of other saltwater fish	5.0	free
		Rate o	f duty
CN Code	Description	auto-	conven-
		потоня	tional
	Other		free
03 04 90 05	Surimi	5.0	free
03 04 90 10	Of freshwater fish		free
03 04 90 20	Of herrings (Clupea harengus & Clupea pallasi)	5.0	·
03 04 90 31	Of redfishes (Sebastes spp.)	5.0	free
03 04 90 35	Of Pacific cod (Gadus macrocephalus)	5.0	free
03 04 90 38	Of Atlantic cod (Gadus morhua)	5.0	free
03 04 90 39	Of other species of the genus Gadus	5.0	free
03 04 90 41	Of saithe or pollock (Pollachius virens)	5.0	free
03 04 90 45	Of haddock (Melanogrammus aeglefinus)	5.0	free
03 04 90 47	Of hakes of the genus Merluccius	5.0	free
03 04 90 49	Of hakes of the genus Urophycis	5.0	free
03 04 90 51	Of megrims (Lepidorhombus spp.)	5.0	free
03 04 90 55	Of pomfrets (Brama spp.)	5.0	free
03 04 90 57	Of monkfishes (Lophius spp.)	5.0	free
	Of blue whiting (Micromesistius poutassou)	5.0	free
03 04 90 59		5.0	free
03 04 90 59 03 04 90 61	Of Alaska pollack (Theragra chalcogramma)		free
	Of Alaska pollack (Theragra chaicogramma) Of swordfish (Xiphias gladius)	5.0	
03 04 90 61	· - · - · - · - · - · · · · · · · ·	5.0	free
03 04 90 61 03 04 90 65	Of swordfish (Xiphias gladius)	5.0	free
03 04 90 61 03 04 90 65	Of swordfish (Xiphias gladius) Of other saltwater fish	-	
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH	5.0	free
03 04 90 61 03 04 90 65 03 04 90 97	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine	5.0 38.0	free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked	5.0 38.0	free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus)	5.0 38.0 5.0	free free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11 03 05 30 19	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus) Of other cods (Gadus spp.)	5.0 38.0 5.0 free	free free free free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11 03 05 30 30	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus) Of other cods (Gadus spp.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho)	5.0 38.0 5.0 free free	free free free free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11 03 05 30 19 03 05 30 50 03 05 30 50	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus) Of other cods (Gadus spp.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of Greenland halibut (Reinhardtius hippoglossoides)	5.0 38.0 5.0 free free free	free free free free free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11 03 05 30 19 03 05 30 30	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus) Of other cods (Gadus spp.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of Greenland halibut (Reinhardtius hippoglossoides) Of other fish	5.0 38.0 5.0 free free free free free	free free free free free
03 04 90 61 03 04 90 65 03 04 90 97 03 05 10 00 03 05 20 00 03 05 30 11 03 05 30 19 03 05 30 30 03 05 30 50	Of swordfish (Xiphias gladius) Of other saltwater fish FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH Flours, meals and pellets of fish fit for human consumption Livers and roes, dried, smoked, salted or in brine Fish fillets, dried, salted or in brine but not smoked Of Pacific cod (Gadus macrocephalus) Of other cods (Gadus spp.) Of Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho) Of Greenland halibut (Reinhardtius hippoglossoides)	5.0 38.0 5.0 free free free free free	

03 05 49 10	Greenland halibut (Reinhardtius hippoglossoides)	5.0	fron
03 05 49 20	Atlantic halibut (Hippoglossus hippoglossus)	5.0	free
03 05 49 30	Mackerels (Scomber scombrus, S. australasicus & S. japonicus)		free
03 05 49 40	Trouts (Salmo trutta, Oncorhynchus mykiss, etc.)	5.0	free
03 05 49 50	Eels (Anguilla spp.)	5.0	free
03 05 49 80	Other fish	5.0	free
03 03 49 60		5.0	free
03 05 51 00	Dried fish, whether or not slated but not smoked		
03 05 59 10	Cods (Gadus morhua, G. ogac & G. macrocephalus)	5.0	free
03 05 59 30	Polar cod (Boreogadus saida)	5.0	free
03 05 59 50	Herrings (Clupea harengus & C. pallasi)	5.0	free
	Anchovies (Engraulis spp.)	5.0	free
03 05 59 60	Greenland (Reinhardtius hippoglossoides) and Pacific halibut (Hippoglossus stenolepis)	5.0	free
03 05 59 70	Atlantic halibut (Hippoglossus hippoglossus)	5.0	free
03 50 59 90	Other fishes	5.0	free
CN Code	Description	Rateo	f duty
	· · · · · · · · · · · · · · · · · · ·	auto- nomous	conven- tional
	Fish saited but not dried or smoked and fish in bring	nomous	HOHAL
03 05 61 00	Herrings (Clupea harengus & Clupea pallasí)	5.0	free
03 05 62 00	Cods (Gadus morhua, G. ogac & G. macrocephalus)	5.0	free
03 05 63 00	Anchovies (Engraulis spp.)	5.0	free
03 05 69 10	Polar cod (Boreogadus saida)	5.0	free
03 05 69 20	Greenland (Reinhardtius hippoglossoides) and Pacific halibut (Hippoglossus stenolepis)	5.0	
03 05 69 30	Atlantic halibut (Hippoglossus hippoglossus)		free
03 05 69 50	Pacific (Oncorhynchus spp.), Atlantic (Salmo salar) and Danube salmon (Hucho hucho)	5.0	free
03 05 69	Other fishes	5.0	free
03 03 09		5.0	free
	CRUSTACEANS		
03 06 11 00	Frozen		
	Spiny lobsters & rock lobsters (Palinurus spp., Panulirus spp. & Jasus spp.)	10.0	free
03 06 12 00	Lobsters (Homarus spp.)	10.0	free
03 06 13 10	Shrimps and prawns of the family Pandalidae	10.0	free
03 06 13 30	Shrimps of the genus Crangon	10.0	free
03 06 13 40	Deepwater rose shrimp (Parapenaeus longirostris)	10.0	free
03 06 13 50	Shrimps of the genus Penaeus	10.0	free
03 06 13 80	Other shrimps and prawns	10.0	free
03 06 14 10	Kamchatka king crab (Paralithodes kamtchaticus), Pacific snow crabs (Chionectes spp.), and blue crab (Callinectes sapidus)	10.0	free
03 06 14 30	Edible crab (Cancer pagurus)	10.0	free
03 06 14 90	Other crabs	10.0	free
03 06 19 10	Freshwater crayfish	7.0	free
03 06 19 30	Norway lobster (Nephrops norvegicus)	7.0	free
03 06 19 90	Other crustaceans, including flours, meals and pellets, fit for human consumption Not frozen	7.0	free
03 06 21 00	Spiny lobsters & rock lobsters (Palinurus spp., Panulirus spp. & Jasus spp.)	9.5	free
03 06 22 00	Lobsters (Homarus spp.)	9.5	free
03 06 23 10	Shrimps and prawns of the family Pandalidae	9.5	free
03 06 23 30	Shrimps of the genus Crangon	9.5	free
03 06 23 90	Other shrimps and prawns	9.5	
03 06 24 10	Kamchatka king crab (Paralithodes kamtchaticus), Pacific snow crabs (Chionectes spp.), and blue crab (Callinectes sapidus)	9.5	free
07.04.04.00	Edible crab (Cancer pagurus)	0.5	r
	Other crabs	9.5	free
03 06 24 30	Outer craos	9.5	free
03 06 24 90	Freshwater crayfish		free
03 06 24 90 03 06 29 10	Freshwater crayfish	7.5	
03 06 24 90 03 06 29 10 03 06 29 30	Norway lobster (Nephrops norvegicus)	7.5	free
03 06 24 90 03 06 29 10	†		

	Frozen	50000	
03 07 10 10	Flat oysters (Ostrea spp.)	10.0	free
03 07 10 90	Other oysters	10.0	free
	Scallops		
03 07 21 00	Scallops of the genera Pecten, Chlamys or Placopecten - live, fresh or chilled	10.0	free
an a t	D	Rate o	f duty
CN Code	Description	auto- nomous	conven- tional
03 07 29 10	Common scallop (Pecten maximus) - not live, fresh or chilled	10.0	free
03 07 29 90	Other scallops - not live, fresh or chilled	10.0	free
	Mussels		6
03 07 31 10	Mussels (Mytilus spp.) - live, fresh or chilled	10.0	free
03 07 31 90	Mussels (Perna spp.) - live, fresh or chilled	10.0	free
03 07 39 10	Mussels (Mytilus spp.) - other	10.0	free
03 07 39 90	Mussels (Perna spp.) - other	10.0	free
, ,, ,, , , , , , , , , , , , , , , , ,	Cuttle fish and squid		
03 07 41 10	Cuttle fishes (Sepia officinalis, Rossia macrosoma & Sepiola spp.) - live, fresh or chilled	10.0	free
03 07 41 91	Squids (Todarodes sagittatus, Loligo spp.) - live, fresh or chilled	10.0	free
03 07 41 99	Other squids (Ommastrephes, Notodarus or Sepioteuthis spp.) - live, fresh or chilled	10.0	free
03 07 49 01	Lesser cuttle fish (Sepiola rondeleti) - frozen	10.0	free
03 07 49 11	Other cuttle fishes of the genus Sepiola - frozen	10.0	free
03 07 49 18	Other cuttle fishes (Sepia officinalis, Rossia macrosoma, etc.) - frozen	10.0	free
03 07 49 31	Common squid (Loligo vulgaris) - frozen	10.0	free
03 07 49 33	Longfin squid (Loligo pealei) – frozen	10.0	free
03 07 49 35	(Loligo patagonica) - frozen	10.0	free
03 07 49 38	Other squuds of the genus Loligo	10.0	free
03 07 49 51	European flying squid (Todarodes sagittatus) – frozen	10.0	free
03 07 49 59	Other squids (Ommastrephes spp., Notodarus spp., Sepioteuthis spp.) - frozen	10.0	free
03 07 49 71	Cuttle fishes (Sepia officinalis, Rossia macrosoma & Sepiola spp.) - other	10.0	free
03 07 49 91	Squids (Todarodes sagittatus, Loligo spp.) - other	10.0	free
03 07 49 99	Other squids (Ommastrephes spp., Notodarus spp., Sepioteuthis spp.) - frozen	10.0	free
	Octopus		
03 07 51 00	Octopus (Octopus spp.) - live, fresh or chilled	10.0	free
03 07 59 00	Octopus (Octopus spp.) - other	10.0	free
NA PARAMETER SOLUTION AND SOLUT	Snails		
03 07 60 00	Snails, other than sea snails – live, fresh or chilled	5.0	free
	Other aquatic invertebrates		
03 07 91 00	Other aquatic invertebrates – live, fresh or chilled	5.0	free
03 07 99 11	Shortfin squid (Illex spp.) - frozen	8.0	free
03 07 99 13	Striped venus and other species of the family Veneridae - frozen	8.0	free
03 07 99 15	Jetlyfish (Rhopilema spp.) – frozen	8.0	free
03 07 99 18	Other aquatic invertebrates – frozen	8.0	free
03 07 99 00	Other aquatic invertebrates - other, incl. flours, meals and pellets, fit for human consum.	8.0	free

Appendix 7 List of import tariffs of preparations of meat of fish and other aquatic animals

(valid from 1st January 1999)

CN Code	Description		Rate of duty	
			conven- tional	
	EXTRACTS AND JUICES OF MEAT, fish or crustaceans, molluscs or other aquatic invertebrates			
16 03 00 30	In immediate packing of a net content more than 1 kg but less than 20 kg	21.0	fre	
16 03 00 90	In immediate packing of a net content more than 20 kg	21.0	fre	
16 03 00 90	Other	21.0	fre	
	PREPARED OR PRESERVED FISHES,			
	CAVIAR and caviar substitutes prepared from fish eggs			
	Fish whole or in pieces, but not minced			
16 04 11 00	Salmon	7.0	fre	
16 04 12 10	Herrings - fillets, raw, merely coated with batter or breadcrumbs, deep frozen	7.0	fre	
16 04 12 91	Herrings – in airtight containers	7.0	fre	
16 04 12 99	Herrings – other		fre	
16 04 13 11	Sardines – in olive oil	7.0	fre	
16 04 13 19	Sardines – other	7.0	fre	
16 04 13 90	Sardinellas and brislings or sprats	7.0	fre	
16 04 14 11	Tunas and skipjack – in vegetable oil	7.0	fre	
16 04 14 16	Tunas and skipjack – fillets known as "loins"	7.0	fre	
16 04 14 18	Tunas and skipjack – other	7.0	fre	
16 04 14 90	Bonitos (Sarda spp.)	7.0	fre	
16 04 15 11	Mackerels of the species Scomber scombrus and S. japonicus – fillets	7.0	fre	
16 04 15 19	Mackerel's of the species Scomber scombrus and S. japonicus – thees	7.0	fre	
16 04 15 90	Blue mackerel (Scomber australasicus)	7.0	fre	
16 04 16 00	Anchovies	7.0	fre	
16 04 19 10	Salmonidae, other than salmon	7.0	fre	
		7.0		
16 04 19 30	Fish of the genus Euthynnus, other than skipjack (Euthynnus (Katsuwonus) pelamis)		fre	
16 04 19 50	Plain bonito (Orcynopsis unicolor)	7.0	fre	
16 04 19 91	Other fish, fillets, raw, merely coated with batter or breadcrumbs, deep frozen	7.0	fre	
16 04 19 92	Cods (Gadus morhua, G. ogac & G. macrocephalus)	7.0	fre	
16 04 19 93	Saithe (Pollachius virens)	7.0	fre	
16 04 19 94	Hakes (Merluccius spp. & Urophycis spp.)	7.0	fre	
16 04 19 95	Alaska pollack (Theragra chalcogramma) and pollack (Pollachius pollachius)	7.0	fre	
16 04 19 98	Other fish	7.0	fre	
	Other prepared or preserved fish			
16 04 20 05	Preparations of surimi	7.0	fre	
16 04 20 10	Of salmon	7.0	fre	
16 04 20 30	Of salmonidae, other than salmon	7.0	fre	
16 04 20 40	Of anchovies	7.0	fre	
16 04 20 50	Of sardines, bonito, mackerels of the species Scomber scombrus & S. japonicus, and plain bonito (Orcynopsis unicolor)	7.0	fre	
16 04 20 70	Of tunas, skipjack or other fish of the genus Euthynnus	7.0	fre	
16 04 20 90	Of other fish	7.0	fre	
CN Code	D	Rate of duty		
CN Code	Description	auto- nomous	conver tional	
	Caviar and caviar substitutes			
16 04 30 10	Caviar (sturgeon roe)	5.0	fre	
16 04 30 90	Caviar substitutes	5.0	fre	
	CRUSTACEANS, MOLLUSCS & other AQUATIC INVERTEBRATES, prepared or preserved			

16 05 10 00	Crabs	18.0	free
	Shrimps and prawns		
16 05 20 10	Shrimps and prawns - in airtight containers	18.0	free
16 05 20 91	Shrimps and prawns - in immediate packings of a net content not exceeding 2 kg		free
16 05 20 99	5 05 20 99 Shrimps and prawns - other		free
	Lobsters		MC55120
16 05 30 10	Lobster meat, cooked, for the manufacture of lobster butte or of lobster pastes, pates, soups and souces	18.0	free
16 05 30 90	Lobsters - other	18.0	free
16 05 40 00	Other crustaceans	18.0	free
	Molluses		
16 05 90 11	Mussels (Mytilus spp., Perna spp.) - in airtight containers	23.0	free
16 05 90 19	Mussels (Mytilus spp., Perna spp.) - other	23.0	free
16 05 90 30	Other molluscs	23.0	free
16 05 90 90	Other aquatic invertebrates	23.0	free

Appendix 8 List of major fish farms in Slovakia

1. ESOX, rybárska spoločnosť

Address: Senné 21, SK - 072 13 PALÍN

Phone: +421 - 946 - 97 390

Manager: Ján Išky

2. ESOX, chov rýb

Address: Iňačovce 51, SK - 072 11 ČEČEHOV

Phone: +421 - 946 - 90 279 Manager: Ing. Ľudovít Janošov

3. JANEX - Slovensko, spol. s. r. o.

Address: Hollého 32, SK - 036 01 MARTIN

Phone: +421 -842 -34 084 Fax.: +421 - 842 - 34 084 Manager: Ing. Ján Tomka

4. MARYB, spol. s. r. o.

Address: SK - 036 01 MARTIN - STRÁNE

Phone: +421 - 842 - 23 80 49

Manager: Ján Petráš

5. Miroslav Martočko

Address: Hrnčiarska 34, SK - 048 01 ROŽŇAVA

Phone: +421 - 924 - 22 085 Manager: Miroslav Martočko

6. Rybochov, spol. s. r. o.

Address: Park 397/2, SK-900 31 STUPAVA

Phone: +421 - 7 - 65 93 43 40 Fax.: +421 - 7 - 65 93 33 42 Manager: Ildikó Brázová

7. Rybochov, spol. s. r. o., hospodárstvo Dolný Štál

Address: Hlavná 47/24, SK - 929 01 DUNAJSKÁ STREDA

Phone: +421 - 709 - 55 22 70 4 Manager: Štefan Kalmár

8. Rybochov, spol. s. r. o., hospodárstvo Jakubov

Address: SK - 900 63 JAKUBOV 416

Phone: +421 - 703 - 77 33 220

Manager: Rudolf Lopoš

9. Rybochov, spol. s. r. o., hospodárstvo Keť

Address: SK - 935 64 KEŤ 428 Phone: +421 - 903 - 50 22 88 Manager: Róbert Straňák

10. Rybochov, spol. s. r. o., hospodárstvo Levice

Address: Mochovská 40, SK - 934 01 LEVICE

Phone: +421 -813 -63 12 094

Manager: Pavol Varga

11. Rybochov, spol. s. r. o., hospodárstvo Veľké Leváre

Address: SK - 908 73 VEĽKÉ LEVÁRE 1021

Phone: + 421 - 703 - 77 94 574

Manager: Tibor Kovár

12. Ryboprodukt, spol. s. r. o.

Address: Pelíškova 13, SK -909 01 SKALICA

Phone: + 421 - 801 - 46 44 083 Fax.: + 421 - 801 - 46 44 083

13. SALMO

Address: Tyršova D2/C13, SK - 073 01 SOBRANCE

Manager: Eduard Dudra

14. Slovenský rybársky zväz, stredisko Brzotín

Address: Rybníky, SK - 049 51 BRZOTÍN

Phone: + 421 - 942 - 26 026 Manager: Ing. Július Makara

15. Slovenský rybársky zväz, stredisko Kľúčovec

Address: Rybníky, SK - 930 07 KĽÚČOVEC

Phone: + 421 - 709 - 99 178 Manager: Csaba Gyürky

16. Slovenský rybársky zväz, stredisko Košarovce

Address: Rybníky, SK - 094 08 KOŠAROVCE

Phone: + 421 - 931 - 98 188 Manager: Ing. Peter Makara

17. Slovenský rybársky zväz, stredisko Lučenec

Address: Rybníky, SK - 980 01 LUČENEC

Phone: + 421 - 863 - 43 22 826 Manager: Miroslav Kľúčiar

18. Slovenský rybársky zväz, stredisko Malé Zálužie

Address: Rybníky, SK - 072 34 MALÉ ZÁLUŽIE

Phone: +421 -87 -94 933 Manager: Ing. Jaroslav Fuka

19. Slovenský rybársky zväz, stredisko Paríž - Ľuba

Address: SK – 943 53 PARÍŽ ĽUBA

Phone: + 421 - 905 - 35 16 42 Manager: Alexander Gyürky

20. Slovenský rybársky zväz, stredisko Slovianska Dolina

Address: Slovianska Dolina, SK - 038 35 VALČA

Phone: + 421 – 842 – 29 41 50 Manager: Karol Kováčik

21. Slovenský rybársky zväz, stredisko Trstená

Address: Rybníky, SK - 028 01 TRSTENÁ

Phone: +421 – 847 – 39 25 81 Manager: Ing. František Štefanides

22. Slovenský rybársky zväz, stredisko Uzovská Panica

Address: SK - 980 22 UZOVSKÁ PANICA

Phone: + 421 - 866 - 56 96 202 Manager: Ing. Roman Mesiarik

23. SLOVRYB, a.s., stredisko Biely Potok a Podsuchá

Address: Lepenkáreň 15, SK - 034 03 RUŽOMBEROK 3

Phone: +421 - 848 - 32 45 43 Fax.: +421 - 848 - 32 93 54 Manager: Ing. Štefan Janček

24. SLOVRYB, a.s., stredisko Bytča

Address: Rybníky, SK-01401 BYTČA

Phone: +421-821-37.75Manager: Miloš Podrazil

25. SLOVRYB, a.s., stredisko Dedinky

Address: SK - 049 73 DEDINKY Phone: + 421 - 942 - 98 243 Manager: Štefan Kravec

26. SLOVRYB, a.s., stredisko Demänová

Address: SK - 032 51 DEMÄNOVSKÁ DOLINA

Phone: + 421 – 849 – 75 91 51 Manager: Ľubomír Kokavec

27. SLOVRYB, a.s., stredisko Považská Bystrica

Address: Žilinská 776/3, SK - 038 42 POVAŽSKÁ BYSTRICA

Phone: +421 - 822 - 32 59 17 Fax.: +421 - 822 - 32 59 17 Manager: Branislav Branse

28. SLOVRYB, a.s., stredisko Príbovce

Address: SK - 038 42 PRÍBOVCE Phone: +421 - 842 - 29 42 22 Fax.: +421 - 842 - 29 42 22 Manager: Ing. Branislav Košťan

29. SLOVRYB, a.s., stredisko Svit

Address: Rybníky, SK-05921 SVIT

Phone: +421 – 92 – 75 64 55 Manager: Ing. Ján Árvay

30. Vaicenbacher

Address: Park 20, SK - 900 31 STUPAVA

Phone: +421 - 7 - 65 93 53 27 Manager: Ing. Juraj Vaicenbacher

31. Východoslovenský rybársky podnik, š. p.

Address: Kostolné námestie 10, SK - 071 91 MICHALOVCE

Phone: +421 - 946 - 24 276

Manager:

32. ZÚGOV, spol. s. r. o.

Address: Zúgov 1, P. O. Box 34, SK - 940 01 NOVÉ ZÁMKY

Phone: +421 - 817 - 42 47 80 Fax.: +421 - 817 - 41 44 00

Manager: MVDr. Juraj Mészáros, CSc.

Appendix 9 List of major Slovak fish processing companies

1. RADOMA, spol. s r.o

Address: Vážska 32, SK – 820 14 BRATISLAVA Phone: + 421 – 7 – 45 52 42 10 or 45 52 42 12

Fax: +421 - 7 - 45 52 42 21 Manager: Ing. Ivan Škopec

2. RADOMA, spol. s r.o.

Address: Továrenská 1, SK - 900 65 ZÁHORSKÁ VES

Phone: +421 - 703 - 92 333 or 92 452

Fax: +421 – 703 – 92 454 Manager: Ing. Peter Hrušovský

3. RYBA, spol. s r.o.

Address: Košická 4, SK – 825 14 BRATISLAVA Phone: + 421 – 7 – 55 66 79 10 or 55 66 79 16

Fax: +421 – 7 – 55 66 79 17 Manager: MVDr. Dagmar Krtilová

4. RYBA, spol. s r.o.

Address: Južná trieda 54, SK – 043 75 KOŠICE Phone: +421 – 95 – 62 51 308 or 62 57 369

Fax: +421 - 95 - 62 51 306 Manager: Ing. Jozef Gima

5. RYBA, spol. s r.o.

Address: Hviezdoslavova 5, SK – 010 98 ŽILINA Phone: + 421 – 89 – 76 34 326 or 76 49 102

Fax: +421 - 89 - 76 34 878 Manager: Ing. Ján Lipták

6. MRAZIARNE, spol. s r.o.

Address: Staničná 9, SK - 059 51 POPRAD - MATEJOVCE

Phone: +421 - 92 - 73 16 94 or 73 15 81

Fax: +421 – 92 – 73 16 94 Manager: MVDr. Peter Žoldoš

7. PARTNERS, spol. s r. o

Address: Odborárska 1, SK - 915 01 NOVÉ MESTO NAD VÁHOM

Phone: +421 -834 -71 08 80 or 71 39 63

Fax: +421 -834 -71 34 97

Appendix 10 List of fisheries-related institutions in Slovakia

1. Ministerstvo pôdohospodárstva Slovenskej republiky

[Ministry of Agriculture of the Slovak Republic]

Odbor zahraničných vzťahov [Foreign Relations Department]

Address: Dobrovičova 12, SK - 812 66 BRATISLAVA

Phone: + 421 - 7 - 59 26 62 93 Fax: + 421 - 7 - 59 26 62 88 e-mail: multila@mpsr.sanet.sk

Responsible person: Ing. Barbara Hellebrandtová

2. Ministerstvo životného prostredia Slovenskej republiky

[Ministry of the Environment of the Slovak Republic]

Odbor ochrany prírody a krajiny [Department of Nature and Landscape Protection]

Address: Nám. Ľ. Štúra 1, SK - 812 35 BRATISLAVA

Phone: +421 - 7 - 59 56 21 89 Fax: +421 - 7 - 59 56 20 31

Responsible person: Mgr. Peter Pilinský

3. Slovenská poľnohospodárska a potravinárska komora

[Slovak Agriculture and Food Chamber]

Address: Krížna 52, SK - 821 08 BRATISLAVA

Phone: +421 - 7 - 55 56 26 56

4. Štátna veterinárna správa Slovenskej republiky

[State Veterinary Administration of the Slovak Republic]

Address: Botanická 17, SK - 842 13 BRATISLAVA

Phone: +421 - 7 - 65 42 02 58 Fax: +421 - 7 - 65 42 21 28 e-mail: lovas@basknet.sk

Responsible person: MVDr. Bohuslav Lovas

5. Slovenský rybársky zväz [Slovak Fisheries' Union]

Address: A.Kmet'a 20, SK - 010 55 ŽILINA Phone: + 421 - 89 - 62 35 83 or 62 12 51

Fax: +421 - 89 - 62 69 06 e-mail: srzrada@mail.pvt.sk

Responsible person: Ing. Ferdinand Balaž

6. Ústav rybárstva a akvakultúry [Institute of Aquaculture and Fisheries]

Address: Nádražná ul., SK - 900 28 IVÁNKA PRI DUNAJI

Phone: +421 –903 – 47 30 93 Responsible person: RNDr. Juraj Masár

7. Slovenská akadémia vied [Slovak Academy of Sciences]

Ústav zoológie [Institute of Zoology]

Address: Dúbravská cesta 9, SK - 842 06 BRATISLAVA

Phone: +421 - 7 - 59 41 26 23 Fax.: +421 - 7 - 54 78 97 57

e-mail: uzaeholc@savba savba.sk Responsible person: RNDr. Juraj Holčík, CSc.

8. Slovenská poľnohospodárska univerzita [Slovak Agriculture University]

Katedra hydinárstva a malých hospodárskych zvierat

(Department of Poultry and Small Farming Animals)

Address: Trieda A. Hlinku 2, SK - 949 76 NITRA

Phone: +421 - 87 - 51 17 51, ext. 700

Fax.: +421 - 87 - 511589

e-mail: stranai@sai.uniag.sk

Responsible person: Doc. Ing. Ivan Straňai., CSc.

9. Univerzita Komenského [Comenius University] Katedra zoológie [Deparment of Zoology]

Address: Mlynská dolina B-1, SK - 842 15 BRATISLAVA

Phone: +421 - 7 - 60 29 63 70 Fax.: +421 - 7 - 65 42 41 38 e-mail: hensel@fns.uniba.sk

Responsible person: Prof. RNDr. Karol Hensel, CSc.

10. Univerzita veterinárskeho lekárstva [University of Veterinary Medicine] Katedra hygieny a technológie potravín

[Department of Hygiene and Food Technology]

Address: Komenského 73, SK - 041 81 KOŠICE

Phone: +421 - 95 - 63 31 817 Fax.: +421 - 95 - 63 31 816

Responsible person: MVDr. Peter Košuth, CSc.

11. Stredná poľnohospodárska škola [High School of Agriculture]

Address: SK - 900 28 IVÁNKA PRI DUNAJI

Phone: +421 - 7 - 45 94 30 62 Fax.: +421 - 7 - 45 94 33 22

Responsible person: Ing. Oldrich Švestka

Appendix 11 Close season by species

Species	Season	Duration (days)
Aspius aspius Cyprinus carpio Chondrostoma nasus Tinca tinca	16 March – 31 May	77
Vimba vimba		
Oncorhynchus mykiss	1 January – 15 April	105
Acipenser ruthenus Barbus barbus Silurus glanis	16 March – 30 June	107
Esox lucius Stizostedion lucioperca	1 January – 31 May	151
Thymallus thymallus Salmo trutta m. fario		
Salmo trutta m. lacustris Salvelinus fontinalis	1 September – 15 April	227
Hucho hucho	1 January – 1 December	334
Acipenser gueldenstaedti Eudontomyzon spp Gobio kesselri		
Gobio uranoscopus Lampetra spp. Pelecus cultratus Umbra krameri	All year	365
Zingel zingel Zingel streber Proterorhinus marmoratus		

Appendix 12 Minimum body length of fish

Species	Length
Ctenopharyngodon idella	
Hucho hucho	70 cm
Silurus glanis	ŧ
Esox lucius	50 cm
Salmo trutta m. lacustris	
Acipenser ruthenus	
Anguilla anguilla	45 cm
Hypophthalmichthys molitrix	
Hypophthalmichthys nobilis	
Stizostedion lucioperca	
Aspius aspius	40 cm
Barbus barbus	35 cm
Cyprinus carpio	
Thymallus thymallus	27 cm
Abramis bjoerkna	•
Abramis ballerus	
Abramis brama	
Abramis sapa	35
Barbus peloponnesius petenyi	25 cm
Chondrostoma nasus	
Leuciscus cephalus	
Leuciscus idus	
Stizostedion volgense	
Vimba vimba	
Oncorhynchus mykiss	
Salmo trutta m. fario	23 cm
Salvelinus fontinalis	
Scardinius erythrophthalmus	20 cm
Tinca tinca	
Leuciscus leuciscus	15 cm
Rutilus rutilus	
Carassius carassius	
Carassius auratus	no limit
Lota lota	
Perca fluviatilis	