INLAND NAVIGATION IN EUROPE

MARKETOBSERVATION



Market observation no. 7

Situation of supply and demand in 2007 and analysis of the situation at the end of 2008

Disclaimer Users make use of the knowledge, information or data contained in the present document at their own exclusive risk. The liability of the European Community and that of the Central Commission or its Secretariat may not be invoked in the event of use of the knowledge, information or data contained in the present document or in respect of the consequences resulting therefrom. The present document does not constitute an official commitment on the part of either the European Commission or the Central Commission. February 2009

Contents

Foreword

Special report:

Barge transport in Europe: status quo and new perspectives General trends Bulk trade – high market shares for barges New perspectives for container traffic on Europe's waterways Conclusions

The market for navigation on inland waterways in 2007 and early 2008

Introduction

Section 1: Analysis of the demand for transport

- 1. Economic growth evolution and prospects
- 2. Volumes carried evolution and prospects
 - 2.1 Overall evolution of goods transport
 - 2.2 Transport of goods using inland waterways
 - 2.2.1 The main European routes
 - 2.2.2 National and regional transport
 - 2.3 Appreciation of demand for transport, by sector
 - 2.3.1 Agriculture
 - 2.3.2 Iron and steel products
 - 2.3.3 Coal-based energy
 - 2.3.4 Building materials
 - 2.3.5 Containers
 - 2.3.6 Oil products
 - 2.3.7 Chemicals
- 3. Handling in ports and on inland waterways in the modal split
 - 3.1 Sea ports
 - 3.2 Inland ports

Section 2: Analysis of the offer of transport

- 1. Structure of the European fleets
- 2. New transport capacity on the market

Section 3: Water conditions

- 1. Water conditions and operating capacity
- 2. Water conditions on the Rhine
- 3. Water conditions on the upper reaches on the Danube
- 4. Water conditions on the Elbe

Conclusions and forecasts

Appendices:

Offer of transport capacity:

Table OM1: national fleets, 2005-2007, by type of vessel

Table OM2: national fleets, at 31 December 2007, by tonnage

Table OM3: national fleets, at 31 December 2007, by year of construction

Table OM4: new vessels up to end December 2008

Demand for transport capacity:

Table OM5: national transport of goods on the States' inland waterways
Table OM6: international transport of goods on the States' inland waterways

Table OM7: total transport of goods on the States' inland waterways

Table OM8: transport of containers on the main routes Table OM9: transport of containers on the traditional Rhine

Glossary

Sources

Foreword

In accordance with the rhythm of publication adopted, this 2008-1 publication is devoted mainly to an in-depth analysis of the supply of and demand for transport in 2007, a more limited approach to transport in the first half of 2008, and to the prospects for the evolution of the market in the short-term.

This publication has been drawn up at a time of a spectacular about-face in the economic situation in Europe and indeed the world as a whole. The relatively buoyant economic growth observable for a number of years was halted abruptly by the financial crisis in the summer of 2008. Standing at the end of 2008, the economic prospects are looking grimmer day by day for every sector that is a client for transport on inland waterways. No-one knows how the situation will evolve in 2009 or what the scale and duration of the probable recession will be. As a result, the changes that may be observed on the basis of the statistics for 2007 bear no relation to those that may occur in 2008 and even less to those occurring in 2009.

The 2008-1 publication has had to be delayed because the data on goods transport in Europe was not available in full from Eurostat until almost the end of 2008. 2007 is in fact the first statistical year to which the provisions of Commission Regulation (EC) No. 425/2007 are to be applied, and this has caused some delay in transmitting the data on the last quarter of 2007 for some European States.

Although monitoring the offer of transport is still being adversely affected by the difficulties certain European States are having in determining their operational fleets reliably, the development of approaches concerning the demand for transport is continuing, with emphasis being placed on monitoring specific sectors and markets such as, for example, the transport of waste, which is developing strongly.

On the basis of the observations made in the first six publications, an analysis of both trends in logistics over the past four years and the prospects for the future has been carried out by a research institution. Its conclusions are given in this publication with a view to complementing the overview of navigation on inland waterways and its prospects.

It should be noted that this report was drawn up before the economic crisis had truly developed and as a result it has not been possible to include the most recent developments in this publication.

Special Report Barge transport in Europe: status quo and new perspectives

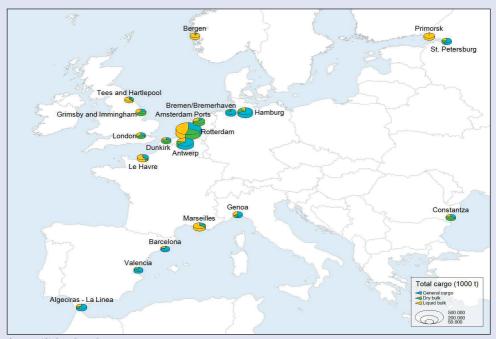
General trends

As other hinterland transport infrastructures are running close to full capacity in and around seaports across Europe, the waterways still have potential for further growth. In recent years, port authorities have therefore strived to increase the share of barge transport in the modal split – with mitigated success. Barge transport is traditionally strong in bulk commodities and in connecting industrial sites with large consignments to the seaports. In container transport, however, inland navigation still faces numerous challenges and has therefore not yet been able live up to the expectations. In the near future, capacity constraints on the other hinterland transport modes and on the terminals may foster new logistics concepts using inland waterway transport as a key element. New impulses for barge transport may also emerge from the compromise of the European Community on energy and climate change in December 2008. The planned CO2 trading scheme to be implemented in 2013 would have to increase the relative cost advantage of barge transport compared to road and – to a lesser extent – rail traffic as inland waterways currently are the most CO2-efficient inland mode of transport. As of today, however, the price of emission allowances and the related impacts are not yet foreseeable.

Bulk trades: high market share for barges

In 2007, there were nineteen European ports with more than 50 mill. tonnes of cargo traffic. Together, they moved 1.8 bill. tonnes, of which 725 mill. tonnes of general cargo, 685 mill. tonnes of liquid bulk and 356 mill. tonnes of dry bulk.

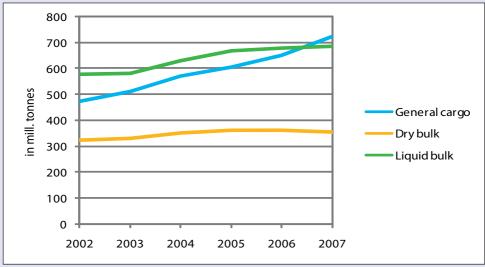
Fig. 1: European ports handling more than 50 mill. tonnes of seaborne cargo in 2007



Source: ISL Port Data Base

Compared to the volume handled five years earlier in these ports, this represents an increase of 33 %. While dry bulk and liquid bulk grew only moderately (1.8 and 3.5 per year on average, respectively), general cargo traffic was particularly dynamic, growing 8.9 per cent per year. The volume of general cargo was more than 50 % higher in 2007 than in 2002. This growth was first and foremost a result of booming container traffic during the past years.

Fig. 2: General cargo, liquid and dry bulk traffic in major European ports 2002-2007

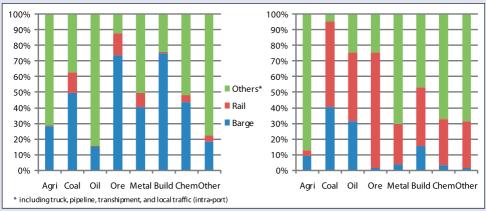


Source: ISL Port Data Base

Some of the cargo has origin or destination in the ports ('local consumption', e.g. refineries within the vicinity of a seaport), some cargo is transhipped, i.e. entering and leaving the port by sea. The largest share, however, is transported from the seaports to the hinterland by barge, rail and truck.

The share of barge traffic in the modal split is particularly high for bulk trades such as coal or oil. Its major advantage compared to railway and truck traffic is the large carrying capacity of barges, allowing considerable economies of scale where large consignments are shipped from or to single customers. This is especially true where large industrial sites or power plants are served with primary materials. Many of these importers have chosen locations at the waterways, often with own cargo handling equipment. On the export side, building materials in bulk have the largest share in barge transport, but oil products and chemicals are also important.

Fig. 3: Modal Split of hinterland traffic at the ports of Rotterdam and Hamburg by major commodity aggregates 2006



Source: ISL, based on Port of Rotterdam and Statistik Nord

In all these segments, barge traffic assumes its role in the modal split and can be expected to grow in parallel to the market. Additional market shares are possible where existing infrastructure restrictions on the waterways are lifted. The development trends for the major branches are summarised below.

Energy sector

In the energy sector, there will be a shift from tanker to dry tonnage. The phasing-out of subsidies in Germany and the reduction of coal production in other European countries, the importance of overseas coal imports will grow in the years to come. During the next 10 years, production in Germany will drop by more than 15 mill. tonnes. As many power plants and industrial sites were supplied by nearby coal mines, carrying distances will increase, increasing the demand for transport capacity. At the same time, a number of coal power plants are currently being constructed in the German hinterland.

At the same time, the imports of oil and oil products are likely to decrease in the middle and long term – especially in Western Europe. In its latest forecast, the Association of the German Petroleum Industry expects a slight decrease of domestic demand by two per cent between 2006 and 2010, and a further decrease of 14.4 per cent until 2025 [MWV 2008].

In the long run, a new market for tanker shipping may be the transport of liquefied carbon dioxide captured from coal power plants' emissions. A first pilot project by Vattenfall using this abatement technology was inaugurated in 2008 in East Germany. However, a widespread use of this technology, which can reduce CO2 emissions by 80-90%, is not expected before 2020. This will also depend on whether and how this technology will be fostered in the context of national and European policies against climate change.

Steel industry

Steel production and steel consumption have seen a boom during the past years as both European steel consumption and steel exports were booming. This led to increasing imports

of iron ore and scrap metal. However, the strongest growth was registered at the port of Hamburg for steel mills in the Peine-Salzgitter region, mostly served by train rather than barge services. The outlook for

2009 is rather bleak due to the global financial crisis and related production cuts, e.g. in the automobile sector. Though growth is expected to recover afterwards, the boom registered in the previous years can be expected to remain an exception.

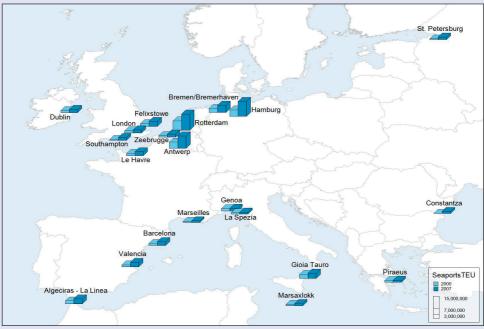
Chemicals industry

The seaborne cargo traffic of chemical products proved to be particularly dynamic during the past five years. In the three leading European ports Rotterdam, Antwerp and Hamburg, it grew from 32.0 mill. tonnes in 2002 to 44.9 mill. tonnes in 2007. Though the industry also suffers from the current financial crisis [CEFIC 2008], growth is likely to resume once the slump is over.

New perspectives for container traffic on Europe's waterways

For container traffic, the market is much more dispersed. Modal shifts in the hinterland transport chain are widespread, especially on longer distances. Just-in-time operations often necessitate fast and reliable transport solutions, favouring train and truck transport. Also, industries which need a guarantee of continuous supply must often back barge transport by an alternative mode of transport. Extremely high or extremely low waters as well as ice may in some regions hinder inland navigation for several weeks.

Fig. 4: European ports handling more than 1 mill. TEU of seaborne cargo in 2007



Source: ISL Port Data Base

Compared with other cargo types, barge traffic is therefore still largely under-represented in container hinterland traffic of the major European seaports – with the notable exception of Rotterdam and Antwerp, which benefit from their connection to the Rhine. Due to the river's favourable navigating conditions with up to four layers of containers from its mouth all the way to Strasburg and three layers to Basel, it is by far the most attractive inland waterway for containers in Europe.

During the past years, the share of barge traffic in the modal split of the major north range ports was increasing slightly. While their total hinterland traffic grew by 9.1 % per year, barge traffic grew by 9.7 % between 2003 and 2007.

Tab. 1: Share of barge traffic in major north range ports' container hinterland traffic 2003-2007

	Total hinterland					Barge traffic					Barge share in %			
	1000 TEU				av. %	1000 TEU					av. %			
Seaport	2003	2004	2005	2006	2007	growth	2003	2004	2005	2006	2007	growth	2003	2007
Rotterdam	3517	3878	4088	4469	4843	8.3	1102	1188	1246	1364	1471	7.5	31.3	30.4
Antwerp**	5952	6341	6749	7188	8350	8.8	1818	2034	2312	2377	2750	10.9	30.5	32.
Hamburg	3678	4159	4513	4850	5390	10.0	58	73	102	90	92	12.3	1.6	1.
Bremen/Bhv.	1327	1362	1425	1666	1894	9.3	33	41	37	45	54	13.0	2.5	2.
Total	14474	15740	16775	18173	20477	9.1	3011	3336	3697	3876	4367	9.7	20.8	21.

Source: ISL, based on Port of Rotterdam, Port of Antwerp, Statistik Nord and Senator für Wirtschaft und Häfen, Bremen

Accordingly, while container traffic on the German section of the Rhine reached 1.7 mill. TEU in 2007, it is less prominent on the rivers Weser and Elbe with volumes around 0.1 mill. TEU each. Hopes at the port of Hamburg to increase container transits on the river Elbe to the expanding Czech market have not yet been met.

Inland logistics hubs: new perspectives for barge transport

However, capacity shortages in the major North Range seaports are about to open a new perspective for barge transport. The port of Duisburg sets an example: it is already used today as hinterland hub for the ports of Rotterdam and Antwerp bundling containers for export and distributing import containers. The 265 ha Logport site is a true logistics centre, and its location is rather symbolic for the structural changes that also impact on inland shipping: for almost 100 years up until 1993, it had been a steel mill. During the past years, the major part of the container traffic growth was realised by railway, which repeatedly experienced double-digit growth rates.

The Rotterdam-based terminal operator ECT holds a majority in the DeCeTe terminal in Duisburg and also operates two inland hubs in nearby Venlo (Netherlands) and in Willebroek (Belgium) to bundle traffic. Maersk is currently constructing an inland terminal in the port of Neuss, just opposite to Duisburg, due to be operational by 2010.

All these hinterland terminals are trimodal, offering rail services to the North Range ports complementing barge transport. Value-added services such as packing are also shifted to locations in the hinterland, and logistics companies cluster around the inland terminals to make them fully-fledged logistics centres.

Fig. 5: Existing and planned inland container hubs for North Range ports



Source: ISL

The same tendency could soon be observed in France, too. Congestion on the major hinterland roads is increasingly becoming an issue, increasing the pressure to change the modal split in favour of barge and rail. Existing hinterland terminals in the major consumption centres and industrial regions (e.g. Paris, Lyon, Strasburg) could potentially play a larger role in streamlining France's imports and exports.

Recently, these hinterland hubs are seen as a means to reduce dwell time in the seaports as yard space is becoming one of the major bottlenecks. Shippers and logistic service providers accordingly expect dwelling costs to rise, increasing the pressure to look for alternatives in the hinterland. They are also seen as a way to reduce the number of empty containers in the seaports by better synchronizing the arrival of empties from the hinterland with the departure of the seagoing vessel. Action in this respect is mainly taken by the terminal operators but also by shipping lines. The former try to increase the efficiency of the terminals, the latter want to reduce their port cost. Both are intending to improve their competitive position. In most cases these hinterland hubs are connected to the terminals in the seaports by inland water transport.

While the Rhine and the Schelde accommodate barges with up to four layers of containers, this is not possible on Elbe and Weser. As the cost advantage of barges largely depends on economies of scale, their competitive position compared to other means of transport is not as

good as on the Rhine. While the seaports strive to increase the share of inland navigation to alleviate congestion on roads and railways, third party logistics providers have so far not shown too much interest in container transports to the German North Sea ports. The main customers are rather importing and exporting companies contracting directly with barge operators.

A second factor impeding the development of barge services is the lack of container quay capacity or the low-priority treatment of barges leading to considerable waiting times. The same is true for certain locks. This waiting time additionally increases the disadvantage of barge transport with regard to other hinterland transport means.

France: fostering barge-rail links

In France as well, inland terminals such as Paris, Strasbourg, and Lyon could be further developed into logistics hubs, using barge services to the seaports as a means to streamline container flows and relieve the seashore container terminals.

Fig. 6: Container traffic at major French seaports and inland terminals 2007 (1000 TEU)



Source: ISL

France's major container ports Le Havre and Marseilles are currently investing heavily in new terminal capacities. In Le Havre, the second terminal of the 'Port 2000' project opened in November 2007 and has launched the second phase of the project, planning to commission an additional six berths until mid-2010. The port of Marseilles will boost its container handling capacity by an additional 1.4 mill. TEU by 2010 with the terminal 'Fos 2XL' situated some 70 km west of Marseilles at the mouth of the Rhone. Future plans of the port include the construction of two additional container terminals and a direct connection from the container terminals to the Rhone Canal which links Fos to the Rhone.

Train connections from inland ports to other destinations in the hinterland are seen as a vital element for the promotion of larger volumes of container traffic. If large logistics service providers or operators can be attracted to invest in the inland ports, the latter could be efficiently integrated into the transport chains. Both Seine and Rhone allow transporting three layers from the mouth to the major inland ports Paris and Lyon, respectively.

The Danube river: increasing potential for container traffic

With the entry of Bulgaria and Romania into the European Union on January 1st, 2007, experts expect growing traffic between these countries and Western Europe. With increasing volumes of consumer goods transported between these two new member states and the other European countries bordering the Danube, the river – today almost exclusively used for bulk cargoes – is increasingly attractive for container operations.

Fig. 7: Seaports and inland terminals at the Danube river



Source: ISL

At the same time, the port of Constantza situated at the mouth of the Danube has established itself in the top 20 of European container ports. The port is increasingly used as a gateway for Asian imports to the region and beyond. Between 2004 and 2007, the port has increased total traffic by one million TEU, handling 1.4 million TEU during the first year of Romania's EU membership.

The capacity of the Danube river, which allows transporting four layers of containers from Constantza to Belgrade, and three layers of containers to Bavaria, allows considerable cost savings compared to using the North Range ports for certain regions, most notably for Austria and Hungary. However, transit times of around one week from Constantza to Austria are a considerable disadvantage. Mounting pressure on the North Range ports' capacities and hinterland connections may in the future provide an additional incentive to re-route certain containers via the Danube. A pre-condition, of course, is the acceptance of the new hub and logistic chain by the large players like freight forwarding companies. One main argument to get this acceptance is a cost advantage which might result from less congested port and hinterland facilities as well as from lower cost for inland navigation for emission allowances.

Conclusions

Compared with road and rail, the major waterways still have a large capacity potential. Still, the use of this capacity will not be 'automatic'. Barge transport has to become an integral part of logistics chains and play its competitive advantage where it is strongest: for transports of large volumes of goods which are not too time-sensitive.

Besides the transport of bulk goods, which will remain an important market for barges for the foreseeable future, larger consignments for the industry, different types of consumer goods, but also the transport of empty containers from the hinterland to the seaports are market segments that could be further exploited. It implies that all players along the transport chain organise themselves to realise – and distribute – the associated cost savings. Inland water transport may not be as fast and flexible as road or rail, but it is much cheaper per cargo unit not only in bulk but also in container transport.

In future, the shippers and forwarders will be forced to more explicitly include inland water transport in the planning processes due to rising cost – from congestion, energy, tolls and other fees. With adequate planning tools inland water transport could be integrated in many logistical chains even under the "just-in-time"-aspect.

For increasing the share of barge transport in container transports as desired by governments across Europe, the following measures would be important:

- fast and reliable treatment of barge ships in the seaports, e.g. through dedicated barge terminals
- infrastructure investments in key bottlenecks (locks, bridges, etc.) to reduce waiting times and/or increase the permissible ship sizes
- increasing the relative cost advantage of barge transport via the reduction of fees or financial incentives for the use of the CO2-efficient barge transport
- transfer of distribution activities to inland hub terminals through the bundling of container traffic flows

The promotion of barge transport therefore necessitates the cooperation between seaports, politics, barge operators and logistics service providers. If such conditions are met, barge transport may increase its market share even in market segments where it today only plays a minor role.

The market for transport on inland waterways in 2007 and early 2008

INTRODUCTION

In order to describe the level of activity of transport of inland waterways in Europe, and more particularly its prospects for the coming months, it is necessary to take into account the level of economic activity in Europe and worldwide. Demand for transport of any kind depends on the intensity of economic activity and more particularly on an increase in gross domestic product (GDP).

SECTION 1: ANALYSIS OF THE DEMAND FOR TRANSPORT

1. Economic growth - evolution and prospects

According to the most recent estimates, the gross domestic product (GDP) in the euro area and in the 27-member European Union fell by 0.2% in the third quarter of 2008 compared with the preceding quarter. The drop was particularly noticeable in Germany and in Italy (-0.5%). In these States, the industrial sector – which usually reacts more to slowdowns in the economic situation than the services sector does – is particularly important. In comparison, GDP has remained relatively stable in France, the Netherlands, Switzerland and Austria, and has even increased in eastern European States as their economies continue to catch up (Czech Republic: +1%, Poland: +1.2%, Slovakia: +1.5%). The fall in industrial production accelerated considerably towards the end of 2008 in most of the 27 Member States of the European Union. In September, the entire industrial production of Germany only fell by 1.8% compared with September 2007; the figure for the drop increased to 3.8% for October compared with the previous year, and to as much as 6.6% in November. In the same month, France even recorded a drop of 10.7% compared with November 2007. The drop in industrial production was similar for November in Italy (-9.7%), the Grand Duchy of Luxembourg (-13.8%) and, to a lesser extent, the Netherlands (-5.5%).

The evolution in orders recorded by the industrial sector reflects the continuation of this worsening of the economic situation. Further to the slowing down of world trade, this indicator has been falling throughout the euro area and in the 27 Member States of the European Union. In September, orders decreased by approximately 4% in the euro area compared with the previous month, the figure being as much as 4.6% in the 27 Member States of the European Union. This confirms the downward trend that was already being felt in the second half of 2007. The evolution in orders has varied according to the industrial sector under observation. While the chemical and textile industries managed to record a slight improvement, the machine and installations construction sector suffered considerably. This was particularly noticeable in the iron and steel sector and in the vehicle construction sector.

The European States are being affected slightly differently by the present economic crisis. France should be recording a slight drop in exports next year, while corporate investments

should drop significantly. On the other hand, household consumption keeps the economy going, as a result of the low level of indebtedness of the private sector and the drop in inflation. The unfavourable evolution of the automobile sector is raising particular concerns because of its repercussions on the entire economy and more particularly on the iron and steel sector. In France, as throughout the euro area, the conditions for granting credit to the private sector have deteriorated continuously in recent months. Large undertakings suffer more from these credit restrictions than small and medium-sized businesses.

The German economy relies heavily on exports by its industrial sector, and has therefore been hard hit by the global recession. As in France, industry is suffering from the global crisis in the automobile sector. The prudent attitude adopted by households in terms of consumption is making this crisis worse. Thus in November 2008 Germany recorded an 18% drop in sales of automobiles. Household consumption in other sectors, however, has taken advantage of the drop in inflation and oil prices, recording an increase of 0.3% (corrected figures) in the third quarter. At best, consumption will remain stable in 2009; it will not be enough to offset the negative evolution of exports and investments.

In the Netherlands and Belgium, the effects of the recession will be slightly less marked than in France and Germany. A slight decrease in general economic activity is nevertheless likely in 2009. This drop will mainly be the result of the drop in exports, whereas household consumption and public investments will have a stimulating effect.

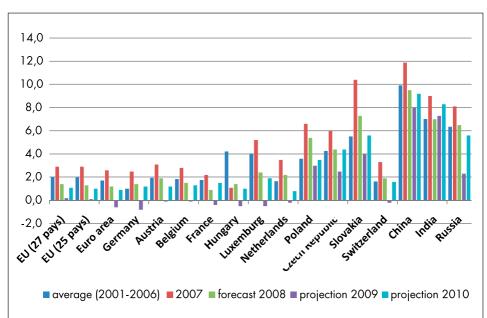


Fig. 8: Evolution of actual GDP (%)

Source: Eurostat (all States except China, India and Russia); China, India and Russia: International Monetary Fund (IMF), OECD

Demand from Asia will have a favourable effect on the GDP of those regions particularly affected by the economic crisis, and more particularly in the USA, but also in Europe. Without this demand for capital goods from the Asian countries, the drop in demand would be much more marked.

The United States are currently facing a particularly difficult economic situation. The financial crisis is being reflected by a substantial and lasting reduction in the granting of credit, which is leading to a significant drop in private investment. The drop is much greater than in Europe. The crisis will continue, mainly because the banking and property sectors have taken a serious blow which has been reflected by considerable loss of wealth. As private consumption is heavily dependent on wealth in the United States, it will continue to suffer from the banking crisis for some time. This factor is all the more important in that private consumption contributes much more to economic growth in the United States than it does in Europe.

Despite the stabilising function of the emerging countries already mentioned, growth has also slowed down considerably in Asia and in Russia.

Although China saw two-figure annual growth in its GDP between 2003 and 2007, growth will only be 7.5% in 2009. This is a result of the collapse of the world market, on which Chinese growth is heavily dependent. The evolution of trade with the Asian countries has also had a serious effect on the activity of Europe's sea ports, particularly in terms of volumes in transit. The situation in India is also expected to continue to deteriorate, one of the reasons being terrorist attacks. The Russian economy depends heavily on energy exports, so a drop in oil prices is reflected by a drop in turnover for exports in the energy sector. This affects not only exports, but also investments, household consumption, and industrial production. In the coming years, exports of investment products from western Europe will also suffer. The Russian rouble is losing value in the face of these problems. Growth in Russia will be barely 2% in 2009.

A side-effect of the slight decrease in growth in Asia will also affect the evolution of prices for oil and raw materials. Because of the deterioration of general macroeconomic conditions in India and China, which were still tending to overheat in the spring, the pressure on prices for oil and raw materials has been relieved somewhat. In Europe, this is enabling companies to benefit from lower prices for oil and raw materials, and enabling consumers to have more net income, which is keeping household consumption stable. This factor does not, however, make it possible to conclude that the situation will improve in the near future. It will take time for the banking sector to regain the confidence it has lost, and it is this process that is a condition for the resumption of investment and hence of the economy in general.

Overall, after a moderate growth of european GDP in 2008, stagnation is expected in 2009. According to the experts, there will be no improvement in the form of an upturn in economic activity in Europe before 2010.

2. Demand for transport - evolution and prospects

The evolution of demand for transport is closely connected to economic growth and, consequently, it showed a relatively high level in 2007 and in the first half of 2008. Although the figures for the second half of 2008 are not yet available, it is likely that demand for transport is regressing, particularly in western Europe because in the current economic situation every industrial sector is revising its production figures downwards.

2.1 Overall evolution of goods transport

In the major States of western Europe, the volume of goods transported by rail showed an increase of approximately 4% in 2007. In the first half of 2008, this growth even reached 6.5% compared with the previous year. In these States, the volume transported increased by 3.5% for road transport and by 2.5% for transport by inland waterways (Eurostat). This means that between 2006 and 2007 growth in the States of western Europe was somewhere between 3.5% and 4%, with growth probably being strongest in the new EU Member States. Demand for transport recorded a further increase in the first quarter of 2008.

In 2007, the volume of containers passing through sea ports accessible to inland navigation (Hamburg-Le Havre Range) increased by 13.8%, reaching 39 million TEUs. This volume had to be transported between the sea ports and the hinterland using various modes of transport on land. After the financial crisis began, and above all after the inversion of the trend in the economic situation that it sparked off, demand for the transport of containers and goods fell as a result of the slowing down of the economy. This drop was particularly noticeable in the sea ports and for maritime traffic. Although all the other modes of transport were also affected by this inversion of the trend, it is still not yet possible to give precise details for the various modes of transport on land.

2.2 Transport of goods using inland waterways

2.2.1 The main European routes

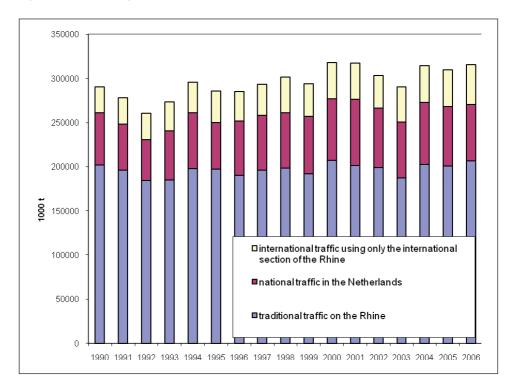
The Rhine route

In 2007, the volume transported on the Rhine increased by 2.6%. The volume transported in the second half of the year showed an increase of 1.3% compared with the previous year. The transport of dry goods increased by 4.4% in 2007, while tanker transport dropped by 3.5% despite good results in the chemicals sector.

During the first half of 2008, navigation on the Rhine was able to benefit from strong demand, as the economic situation was still favourable in Europe. The total volume transported remained at the same level as the previous year, during which the economic situation was generally favourable. With the inversion of the trend that took place at the end of the summer, it is probable that the results will not be so good for the second half of 2008. The only increase in activity was recorded in the transport of oil products, because of the substantial drop in prices on the world oil market.

For the transport of dry goods, the first half of 2008 was comparable to the first half of 2007.

Fig. 9: Volumes transported on the Rhine



Source: CBS, Destatis, CCNR Secretariat

It can be seen, however, that the volumes transported on the Rhine began to decline from mid-spring 2008, compared with the previous year. The drop was more marked from June onwards.

For the sea ports, the forecasts for handling calculated in autumn 2008 looked to a significant drop in 2009. This will without a doubt have unfavourable repercussions on the demand for transport from and to the hinterland.

Fig. 10:

Main transport flows of the inland navigation in Europe



*) data not available Source: CCNR Secretariat

East-west route in northern Europe - the Mittellandkanal

On the Mittellandkanal, the total volume transported increased by 2.9% in 2007. Through transport in particular increased by 16.3%. Regional transport alone, however, accounts for 86% of all transport on the Mittellandkanal, with a slight drop in 2007 (-0.5%). Driven by the economic situation, the transport of sand and gravel increased by 18.1%, the

Driven by the economic situation, the transport of sand and gravel increased by 18.1%, the transport of coal increased by 5.4%, and the transport of iron and steel products increased by 61.7%.

The handling of containers in the main ports on the Mittellandkanal was globally stagnant in terms of number.

The transport of goods for the use of the agricultural and chemical sectors fell back slightly. The transport of oil products fell by 22.8% because of the high prices on the oil market.

East-west route in the south:

Main and Upper Danube Canal

The upper Danube (Germany and Austria) and its link with the Rhine via the Main-Danube

Canal form the first segment of the southern east-west route.

The transport of goods on these waterways increased overall by 12.2% in 2007, reaching the figure of 30 million tonnes.

The canal constitutes the geographical link between the Rhine/Main basin and the Danube. It can, however, be seen that only 6.6 million tonnes (+6.5% compared with 2006) are being carried on the Main-Danube Canal; this represents trade between the Rhine basin and the upper Danube basin.

Thus, in economic terms, these two markets remain relatively separate. Most of the international transport of goods using the Austrian waterways involves the middle and lower Danube. Similarly, it can be seen that upstream of the canal, most of the commercial transport between the Main and the Rhine involves the Main region.

As for the evolution of transport, it should be noted that transport on the Austrian section of the Danube increased by nearly 28% in 2007, while transport on its German section increased by only 6.5%.

In general, the volume transported on this route increased substantially in all sectors. This was the result of the favourable situation in 2007 and the good water conditions on the upper Danube, which navigation was able to take advantage of.

- MIDDLE DANUBE

The evolution of the transport of goods on the middle Danube (Hungary, Slovakia, Croatia, Serbia) varied. Although not all the data is available, it appears that the volume transported decreased in Croatia but increased considerably in Slovakia. This was also a consequence of the good economic situation in 2007 in the iron and steel sector (in Slovakia) and strong activity in the building sector.

- LOWER DANUBE

In 2007, the transport of goods increased by 2.5% on the lower Danube. Coal, chemicals, oil and building materials recorded substantial increases, whereas products connected with the iron and steel industry and the agricultural sector showed a drop. The transport of containers is increasing rapidly in this sector, but – expressed in tonnes – still remains 20 times less than the amount transported in Germany.

2.2.2 National and regional transport

FRENCH NETWORK OF INLAND WATERWAYS:

In 2007, the volume of goods transported on inland waterways dropped by 5.1%. This was the overall view, covering specific evolutions in terms of geography and market segments. Container transport was the only type of transport to record growth in nearly every sector (except for the Rhine).

- SEINE BASIN

In 2007, 40% of the approximately 460 000 TEU containers transported annually on inland waterways were transported on the Seine.

Thanks to the globally favourable situation in the steel sector, there was an increase of 43.6% in terms of t/km.

- NORD-PAS-DF-CALAIS

In this region, the transport of containers made a little progress, reaching 71 000 TEUs. It should be noted that new potential has been available in this region since September 2007, as there is a new waste recycling company, and 6 600 TEUs of waste were transported during the last four months of 2007.

- SAÔNE-RHÔNE

The Saône-Rhône basin recorded a 9.5% increase in the transport of containers in 2007. This involved mainly the link between the sea port of Marseille and the hinterland.

In the chemicals sector, this waterway recorded an increase of 30.8% in services (in t/km). On the other hand, the transport of oil fell, as on all the other inland waterways of Europe, because of the high price of oil.

DUTCH AND BELGIAN NETWORK OF WATERWAYS

Overall, the transport of goods increased by approximately 2% in the Netherlands. The international transport of containers increased by 3.5%. The situation was similar in Belgium, where the increase in the international transport of containers was as high as 5%.

WATERWAYS IN GREAT BRITAIN

The waterways in Great Britain do not constitute a network; they are isolated waterways connected to the sea. Transport is national. There are five main routes for waterways – the Thames, the Forth, the Humber, the Manchester Ship Canal, and the Mersey.

The River Thames represents two-thirds of the volume transported, i.e. approximately 2.4 million tonnes of the 3.4 million tonnes of exclusively inland transport. Adding national transport produces a figure of 52 million tonnes. Exclusively inland transport has been stagnant for years, whereas transport from or to sea ports has been increasing for the past four years.

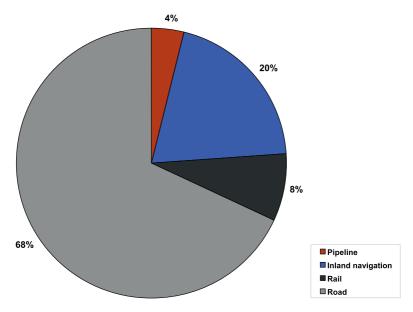
Apart from inland waterways vessels, vessels operating on both rivers and the sea are also used; they continue their coastal navigation inland on the waterways. This means that navigation on Britain's inland waterways may be considered as being included in coastal navigation. An important volume of oil is also transported to inland ports from offshore oil rigs.

From the point of view of geographical structure, the average journey length for vessels on inland waterways is much shorter than those on the western European network. The average distance travelled in Great Britain is in fact estimated at 40 km.

Over the past ten years, the volume of goods transported by waterway has dropped by 11%. Expressed in t/km, the River Thames is the main waterway, on which 48% of services are carried out (in t/km). As far as the modal split is concerned, approximately 5% of goods are transported by inland waterways vessels in Great Britain.

52 million tonnes were transported on inland waterways in 2007, which is approximately 2% more than during the previous year. 35% of the volume transported is dry cargo, 33% is liquid cargo, and 22% is containers, the remaining 10% being other types of cargo.

Fig. 11: Modal split in Great Britain (in %)



Source: National Statistics (Ministry of Transport)

Main secondary waterways in Germany

Weser

In 2007, total transport on the middle Weser increased by 2.6%. Regional transport, which represents 94% of the total, stagnated, whereas transit transport doubled. The total figure for transport reached 7.466 million tonnes.

The transport of containers into and out of Bremen dropped by one-third in 2007 (from 6 549 in 2006 to 4 136 in 2007). Transport on the Elbe bypass canal increased by the same proportion, which is a sign of a possible shift from Bremerhaven to Hamburg.

Moselle

On the Moselle, upstream transport comes almost exclusively from the Rhine, and downstream transport transits almost exclusively via the Rhine. The observation of transport on the Moselle is therefore carried out mainly on the basis of indications concerning passage through the locks in Koblenz and, for transport in France, the lock in Apach.

In 2007, the volume transported on the Moselle dropped by 7.8%, on the basis of passage through the locks in Koblenz. The main reason for this drop is a decline in the transport of the main types of goods. The transport of coal for the iron and steel industry and for power stations, for example, dropped by 12.9%, and the transport of oil fell by 17.1%.

Only the transport of raw materials for the iron and steel industry increased, by about 2.6%. Downstream, there was a 13.6% drop in transport for the agricultural sector. On the other hand, the volume of iron and steel products transported increased.

The transport of containers increased considerably in 2007, both up- and downstream. The increase was not significant, however, as the volumes concerned are very small.

The number of passenger vessels operating on the Moselle also increased in 2007, by 9.6%.

The lock in Koblenz saw a better filling rate for laden vessels in 2007, despite slightly smaller volumes and fewer passages through the lock (81.8% of full load upstream and 75.3% downstream), i.e. a 7% increase in the rate of use of available capacity. In Apach, the increase was 3.4%. Koblenz saw more particularly an 11.5% increase in the transport of coal. This increase was a result of both the favourable situation of the steel sector and the requirements of power stations for the production of electricity. As on the Rhine and for the same reasons, the transport of oil products fell back over the same period.

The prospects for demand for transport are poor for the second half of the year and above all for 2009.

It should be borne in mind that nearly 80% of the goods transported on the Moselle are products connected with the coal and iron and steel industries.

Currently, production forecasts in the iron and steel industry are deteriorating day by day and production was even partially interrupted in the closing months of 2008. This will certainly affect demand for transport on the Moselle, although it is not yet possible to put a figure to it.

Elbe

Generally, the volume transported was stagnant in the Elbe sector in 2007. Examination of the results for the individual sections of the waterway points to a number of disparities, however. Thus the volume transported was considerably lower for commercial transport at the border between Germany and the Czech Republic. The volume of this transport amounted to only 640 000 tonnes in 2007, compared with 980 000 tonnes in 2006. This reduction in volume is mainly the result of the decrease in the transport of cereals, and the other products carried were not able to offset the drop.

On the sector north of Geesthacht, the connecting point with the port of Hamburg and the North Sea, there has also been stagnation in the transport of goods. Detailed examination, however, reveals a clear increase in the transport of coal (+9.3%), goods connected with the iron and steel industry (+13.5%), materials for the building sector (+19.3%), and chemicals (+18.5%). The transport of TEU containers increased by nearly 43% in this sector, while the transport of oil and agricultural products dropped substantially.

The transport of goods on the secondary waterways of the Elbe (the Mittellandkanal, the Elbe-Havel canal, and the Elbe bypass canal) increased overall; transport into and out of Lübeck even increased by 63%.

It is evident that the favourable economic climate in 2007 resulted in strong demand for

transport on the Elbe. This trend was able to continue during the first half of 2008, but demand began to feel the effects of the economic crisis starting in autumn 2008. The forecasts for 2009 are similar to those for all navigation on inland waterways in Europe immediately dependent on industrial activity.

In structural terms, it should however be noted that the past ten years have seen a drop in the transport of goods on the Elbe. This drop is the result partly of the restructuring of the industrial scene in the upper Elbe following privatisation. However, significant variations in water conditions also contributed to the drop.

The Elbe is a waterway that still has considerable potential for development. It could in the future become an important link between the hinterland and not only the northern German sea ports (particularly Hamburg) but also Berlin, Magdeburg and Dresden, as far as the border with the Czech Republic. In particular, there is strong demand for the return transport of empty containers from the hinterland as far as Hamburg. The development of the Polish sea port of Szczecin could have a favourable effect on navigation on the Elbe. Berlin could also make more of service by inland waterway.

Development of this waterway is currently hampered by very variable water conditions, particularly upstream of Magdeburg, which reduces the number of days on which navigation is possible, thereby affecting profitability. The available draught constitutes a bottleneck, particularly on the Czech Republic side, approximately 40 km from the frontier. To improve the situation, a new lock under construction in Decin should help to stabilise water levels. This would ensure a draught of 140 cm every day of the year, and a draught of 220 cm 180 days a year.

Other projects for the construction of locks should ensure the stability of water levels of the Elbe and the bypass canal by 2010. There are also plans to raise the headroom of the bridges on the German part of the Elbe in order to allow the transport of a second layer of containers between Hamburg and Berlin. This should also make the multi-modal container terminal at the embouchure of the Saale-Elbe more attractive for inland waterways traffic. There is still potential for inland navigation on this route because of the saturation of the rail network.

Other measures and investments will be needed to optimise the upper Elbe. 55% of the goods transported between Hamburg and the Czech Republic are in fact carried by rail, and only 20% by inland waterway.

Oder

In 2007, handling in German ports on the Oder increased by 3.3%.

The River Oder connects Berlin to the Baltic port of Szczecin, which is currently being developed as a deep-sea port, and therefore has potential for inland navigation. In terms of volume, coal is the most important cargo for transport from Poland and Russia to Germany but, to a lesser extent, forestry products, cereals and containers are also carried on this route. Although the volume is still relatively low, as already indicated, there has been significant growth. The development of this type of transport depends essentially on the sea port of Szczecin, particularly for containers and wood. The transport of coal to Germany, however, depends

on Germany's energy policy and the possible construction of new power stations (particularly in Berlin). Large quantities of building materials are also transported as far as Berlin from Poland. Demand in this sector should hold steady.

As on the Elbe, current conditions for navigation on the Oder are restricting the development of inland navigation as a reliable mode of transport. There is potential both to the sea ports and from the port of Schwedt, which is important both for the region and beyond for the export of oil products and products from the paper industry.

The lower Elbe has the benefit of better conditions for navigation. On the German coast, a bypass channel parallel to the Oder offers relatively stable water levels. Poland's ODRA 2006 development programme aims to achieve a continuous draught of 180 cm on the eastern Oder.

The middle Oder is the most difficult sector as regards water conditions. These depend directly on precipitation. The ODRA 2006 project also takes this factor into account. A drop is anticipated, but other infrastructural work would also be necessary, for example the creation of bypass channels.

Generally, transport on inland waterways in Poland fell by a further 2.5% in 2007. There has been a drop each year since 2004, aggregating at 11.7% over the past four years, despite a very favourable economic climate.

2.3 Appreciation of demand for transport, by sector

2.3.1 Agriculture

During 2007, demand for transport on European inland waterways from the agricultural sector fell. On the Rhine, the transport of wheat fell by 17% during the second half-year. This is the consequence of the poor harvest, which resulted in a fall in exports. The high market prices also caused an increase in the volumes in store. The trend was the same for barley. The trend reversed in the sea ports during winter, however, as more cereals were imported to meet demand.

Despite this evolution, transport stagnated during the first half of 2008. The increase recorded for certain products was offset by decreases for other products. The transport of foodstuffs and animal feed progressed by nearly 1.6%. The upstream transport of oils, oleaginous crops and oil cakes increased by 12% because of strong demand for bio-energy and plant oils. The transport of animal feed even increased by more than 25%.

The transport of fertilisers increased by 13.4% compared with the first half of 2007.

Contrary to transport connected with industry, demand for transport in this sector could be relatively sheltered from the effects of the economic crisis.

Fig. 12:



*) data not available Source: CCNR Secretariat

2.3.2 Iron and steel products

Introduction

Steel is produced by two techniques; each uses different raw materials. While oxygen steel uses iron ore and coal, electric steel uses scrap metal, which is melted down. The market share of the two methods in the main producer States in western Europe is given in the table below.

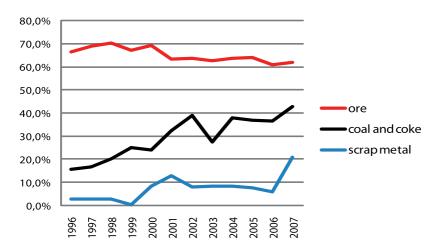
Table: Breakdown of steel production by technology (%)

	Oxygen steel	Electric steel
France	62	38
Germany	69	31
Belgium	67	33
Netherlands	97.7	2.3

Source: Association Française de l'Acier, Eurofer, CCNR calculations

In Germany, the main steel producer among the 27 EU Member States, the proportion of navigation on inland waterways in the modal split is 43% for coal, 62% for iron ore and 21% for scrap metal. Since 1996, navigation on inland waterways has become more important above all for the transport of coal, whereas its share of the transport of ore has remains relatively stable. There has been a steep increase recently for scrap metal which may be explained by the fact that increasing numbers of navigation companies are devoting themselves to the transport of raw materials for the production of electric steel. The sharp increase in prices for scrap metal has probably also encouraged many steelworks to turn to navigation on inland waterways in order to offset these high prices by using a cheaper mode of transport.

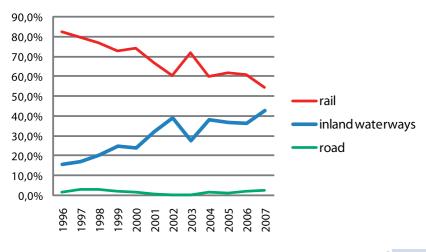
Fig. 13: Percentage of the modal split occupied by inland navigation for raw materials for the iron and steel industry (%)



Source: Wirtschaftsvereinigung Stahl

Examination of the data for coal shows that navigation on inland waterways has won a substantial part of the market away from rail transport.

Fig. 14: Percentage of modal split occupied by the iron and steel industry in Germany - solid fuels* (%)



Source: Wirtschaftsvereinigung Stahl

* coking coal and coke

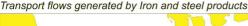
Links between production of steel and transport

The production of steel is closely linked to the transport of iron ore, scrap metal and coal. Imports of iron ore arrive mainly in Rotterdam, Amsterdam, Antwerp and Ghent, and are then transported to their destination by vessels on inland waterways. For the 27 Member States of the EU, the main supplier of iron ore is Brazil, which is the source of 54% of imports. The other major exporters are Canada (9%) and Russia (8%). Statistical analyses have shown that a 1% increase in German production of oxygen steel is reflected by an increase of approximately 1% in the transport of iron ore on the Rhine. A 1% increase in French production of oxygen steel produces an increase of approximately 0.2%. This is plausible inasmuch as the iron and steel industry in Lorraine receives a large part of its raw materials via the Rhine and the Moselle. There is a similar link between production and transport for scrap metal, the other major raw material used in the iron and steel industry, together with coal and iron ore. If German production of electric steel increases by 1%, there is a 1.25% increase in the transport of scrap metal on the Rhine. A 1% increase in French production of electric steel produces a 0.2% increase in transport. There is a similar econometric relationship between the production of steel and the transport of sheet steel. A 1% increase in German and Dutch production of steel produces a 0.7% increase in the transport of sheet steel on the Rhine. The figure for Belgian steel production is currently 0.3%.

General evolution of the situation in the iron and steel sector

Between January and October 2008, production of steel in the 27 Member States of the EU increased by 0.3% compared with the same period of the previous year. In France, production fell by 5% in the first half of the year compared with the annual average, but after recovery from the drop between January and October was only 3% compared with the same period of the previous year. In Germany, production fell by 0.5% in the first half of the year, but the decrease was accentuated from September onwards. Steel production fell by 8% in October compared with the same month in the previous year, and then by 18.5% in November and by nearly 35% in December compared with the same months in the previous year. Since the third quarter, steel producers have significantly cut back on production; in some steelworks production has actually stopped temporarily. The drop in or suspension of production is likely to continue for some time. Further to the drop in demand for steel, prices for scrap metal have almost halved and there has also been a substantial drop in iron ore prices. For steel purchases, however, prices will not fall until spring, when prices are to be renegotiated.

Fig. 15:





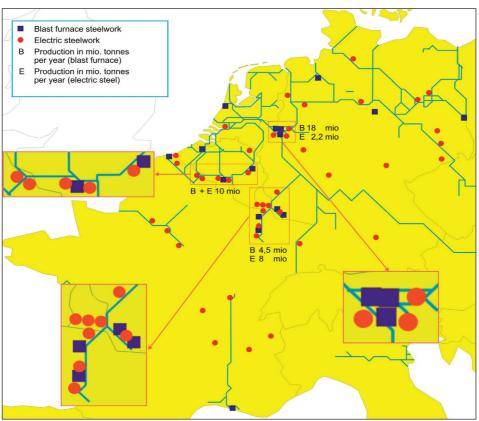
*) data not available Source: CCNR Secretariat

Transport using inland navigation, and forecasts

The evolution of the transport of steel, iron ore and scrap metal on the whole is following the slowing down of the economy. For finished products such as sheet steel and wide flats, a drop of 1.5% was recorded on the Rhine during the first half of 2008 compared with the first half of 2007. For the transport of iron ore, the first half of 2008 was marked by a 3% drop. The transport of iron ore on the Rhine represents nearly 100% of the transport of iron ore on all inland waterways in Germany, because the iron and steel industry is heavily concentrated near the Rhine, the Saar and the Moselle. Consequently, the results recorded on the other inland waterways are similar to those recorded on the Rhine. Here, the drop in the transport of iron ore and metal scrap was approximately 2% between January and September. For iron and non-iron metals, the drop was as much as 6.7%. On the Rhine, approximately 70% of the scrap intended for re-smelting is transported upstream. During the first half of 2008, transport increased slightly, by 2%, compared with the same period of the previous year, largely because of the increase in its share of the modal split rather than the economic situation at the time (see Fig. 15 above). Next year it is expected that German steel production will fall, but there is still speculation on the scale of the drop. The French federation of steelworks is expecting a 5% drop in French production. If the figure is similar in Germany, this would

mean a drop in the transport of iron ore on the Rhine of approximately 6% compared with 2008. The transport of scrap metal would then fall by approximately 7 or 8%. There would also be a similar drop in the transport of sheet steel.

Fig. 16: Location of steel production in western Europe



Sources: Wirtschaftsvereinigung Stahl, Federation Française de l'Acier, Belgian Steel Federation (GSV), Eurofer, CCNR calculations

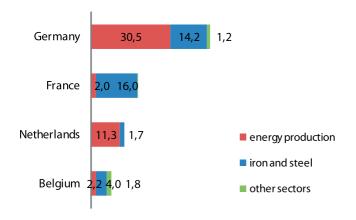
2.3.3 Coal-based energy

Introduction

The upstream transport of coal on the Rhine is closely linked to imports of coal for the energy sector and steel production. A number of power stations producing electricity are located along the Rhine, the Saar and the Mittellandkanal in Germany, and along the Moselle in France. The iron and steel industry is also densely located along the Rhine and the Saar in Germany, and along the Lorraine section of the Moselle in France.

Figure 17 below shows that the use made of coal imports varies widely from one State to another. Whereas approximately two-thirds of German imports are intended for the production of electricity, the production of electricity in the Netherlands accounts for almost all the coal the country imports. The production of iron and steel is far and away the biggest consumer of coal in France, but this activity is also important in Germany, where it consumes approximately one-third of the coal the country imports.

Fig. 17: Use of imported coal (in million tonnes, 2007 figures)



Source: VDKI, Euracoal, Eurostat, Statistics Netherlands, EnergieNed, CCNR calculations

A number of factors point to the upward trend in imports of coal in the long term in States such as France, Germany and the Netherlands. Firstly, national production of coal is continuing to decline. Secondly, energy consumption is increasing in the medium term and approximately a quarter of electricity production is based on coal in Germany and in the Netherlands. Thirdly, investments have been made recently for the production of oxygen steel (increase in production capacity in Duisbourg (Germany) and Liège (Belgium)). Given that the share of navigation on inland waterways in the modal split is increasing for supplying the German iron and steel industry with coal, the increase in imports is resulting in an increase in transport on inland waterways, as Figure 18 below shows. This increase is in the order of 3% per year. On German inland waterways overall, the result of this is a 2.5% increase in the transport of coal per year.

Fig. 18:

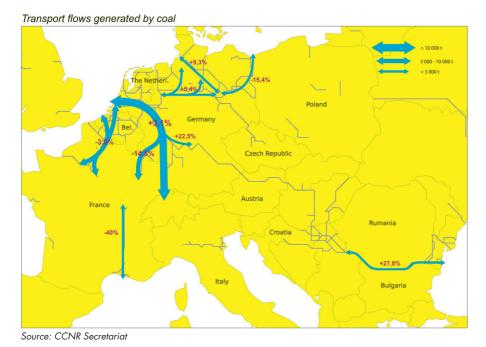
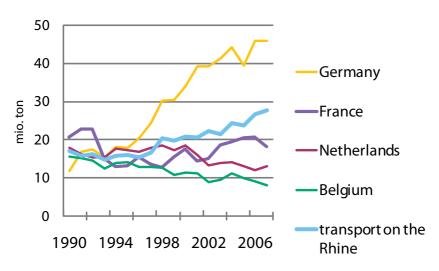


Fig. 19: Imports and transport of coal (in million tonnes, 2007 figures)



Source: VDKI, CCNR

Connection between the production of steel and the transport of coal

Apart from the factors already mentioned which have a long-term influence (drop in national production, increase in coal requirements for the production of electricity, increase of inland waterway transport's share of the modal split), the transport of coal is also affected by factors in relation to the economic climate. In this respect, the situation of the steel sector is particularly important. Statistical analyses have shown that a 1% increase in German production of oxygen steel produces an increase in the transport of coal on the Rhine in the order of 0.7%. A 1% increase in French production of oxygen steel produces an increase in transport of about 0.2%. The results are slightly different for the transport of coal if we consider all German inland waterways rather than just the Rhine. On this basis, a 1% increase in German steel production would result in a 0.4% increase in transport. It should therefore be emphasised that the effect on transport on the Rhine is greater than that on the entire German network of inland waterways. This probably explains the geographical location of the part of the iron and steel industry that uses blast furnaces. Most of these industrial sites are located along the Rhine and the Saar, with only a few in other regions (Bremen, Eisenhüttenstadt).

General evolution of the economic situation in the coal sector

During the first eight months of 2008, German imports of coal increased by 4% compared with the same period of the previous year; the increase in France was 2% for the first half of the year compared with the previous year. However, the downward trend apparent in Belgium in recent years continued. Imports of coal during the first eight months of the year fell by approximately 13% compared with the same period of the previous year. This downward trend is the result of the country's restructuring of its steel industry. Old iron- and steelworks have been closed down. In the energy sector, the proportion of the industry occupied by biomass energy is increasing, to the detriment of coal. On the other hand, the proportion of imported coal used in the production of energy continued to increase. Imports of steam coal for German power stations producing electricity increased by 8.6% up to July compared with the same period of the previous year.

Transport on inland waterways and forecasts

During the first half of 2008, the transport of coal on the Rhine increased by approximately 2% compared with the previous year. This result is explained by the context on which the statistical calculations mentioned above are based. There is expected to be an increase in the transport of coal of 3% per year as a result of the long-term factors that influence the energy sector and the modal split. At the same time, the economic situation of the steel sector in France has resulted in 1% less growth; the figure for this drop is only 0.35% in Germany. Overall, the increase of approximately 2% is therefore explained by the evolution of the energy sector and the current situation in the steel sector. The amounts transported remained almost stable in the first half of the year, taking into consideration the entire German network of inland waterways. The forecasts for 2009 are very uncertain because of the economic and financial crisis. It is however likely that the transport of coal will drop less than the transport of steel and ore, as the recession has a direct influence on demand for raw materials on the part of the steel sector, but less influence on demand for coal for the energy sector. Only part of total energy consumption is connected to the economic situation, and the production of coal in Germany is continuing to fall, which implies a corresponding compensatory increase in imports. In view of this context, a drop of approximately 15% in the transport of coal on the Rhine is expected.

coal-fired power station (black coal) coal-fired power station (brown coal)

Fig. 20: Location of coal- and lignite-fired power stations

Sources: EnergieNed, MEEDDAT/DGEC, Umweltbundesamt, Belgian Ministry of the Economy, SMBs, Middle Classes, and Energy

2.3.4 Building materials

In terms of volume, the transport of building materials is concentrated mainly on the Rhine, the north-south route, and the Mittellandkanal.

In 2007, the volume of building materials transported increased by 2.3%, although there was a slight slowing in the second half of the year.

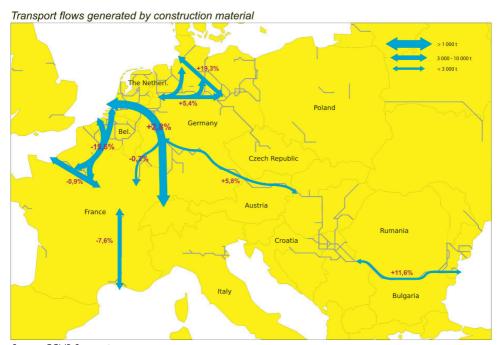
This transport increased by a further 2.4% in the first half of 2008, with the downstream transport of gravel representing nearly 60% of volume, reflecting an increase of 6.5%. The transport of civil engineering materials and asphalt fell by 6.2%.

In the building and public works sector, the increase in the first half of 2008 was greater than during the same period of the previous year. This was particularly the case in Germany, a country in which traditional transport on the Rhine is particularly important. The market segments that will be the first to suffer the consequences of the financial crisis are housing, which is dependent on the solvency of households, and commercial construction, both sectors being directly dependent on the attitude of the banks in granting credit.

The uncertainty hanging over this economic sector, which represents 20% of the volume

transported on the Rhine, points to a less optimistic view of 2009 concerning demand for transport on the Rhine and inland waterways.

Fig. 21:



Source: CCNR Secretariat

2.3.5 Containers

In terms of volume, the transport of containers is concentrated mainly on the Rhine, the north-south route, and the Mittellandkanal. On the north-south route and on the east-west route, it often involves recently-developed new markets, most often because of the gradual removal of bottlenecks in infrastructures.

Thus the transport of containers on inland waterways in France evolved as follows in 2007:

	2007	2006	evolution (TEUs)	evolution (%)
Rhône	67 055	61 258	5 797	9.5%
Seine	185 008	143 206	41 802	29.2%
Nord	71 103	69 751	1 352	1.9%

Source: VNF

It is expected that in the future there will be an increase in this transport on the north-south route as soon as the Seine-Nord canal is completed (by 2015).

On the north-south route, the transport of containers has increased by approximately 5% per year, reaching a figure of approximately 904 937 TEUs.

On the Rhine, the increase in the transport of containers reached 2%; this percentage refers to a volume of 1 968 958 TEUs for 2007.

As already indicated, the transport of containers on the Rhine increased by 2% in 2007. The proportion of full containers rose from 66.7 to 68.5%. This rate of growth in the volume transported on the Rhine should be compared with the 10% increase recorded by the sea ports.

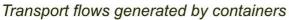
In the first half of 2008, the number of containers transported on the Rhine increased overall by 2.7%, with an increase (in TEUs) in full containers of 1.2% and an increase in empty containers of 5.8%. Handling increased on average by more than 7% in the ARA ports.

The difference between the increase in the ARA sea ports and the Rhine (approximately 4%) points to market losses for navigation on the Rhine. These losses are always partly the result of the known bottlenecks in Rotterdam and greater competition from transport by rail.

In December 2007 and during the first two months of 2008, there was still an increase in volume of between 8 and 9%, but the trend was reversed – on the Rhine, at least – from midspring onwards. A general drop in volume had already been noted during the first half of 2008 compared with the previous year, and this trend became more marked in June.

In the sea ports, the negative effects of the economic crisis began to be felt in September 2008. The port authorities are expecting a serious reduction in handling in 2009. From the autumn onwards owners began to suspend various regular lines to Europe. No exact figure can be put on the scale of this reduction as yet.

Fig. 22:





*) data not available Source: CCNR Secretariat

2.3.6 Transport of oil products

In 2007, the transport of oil products lost ground overall. For the Rhine, on which most of this transport takes place, volumes fell by more than 10% in 2007 (of which -2.8% for petrol and -21% for diesel fuel, diesel oil and domestic fuel oil). The figure for the volume transported upstream fell, but increased downstream.

The prices of oil products hit new highs on the world market and there has been speculation. Every drop in prices was used to quickly make up stock levels. This was reflected in a number of peaks in demand for transport.

The oil industry is expecting a structural drop in the consumption of oil products from 2008 onwards, and the drop could continue for a number of years. In Germany, the consumption of petrol and domestic fuel oil is likely to decrease by 25% by 2025, more particularly because of the development of energy-saving engines and heating systems. The consumption of diesel fuel should nevertheless increase until 2010.

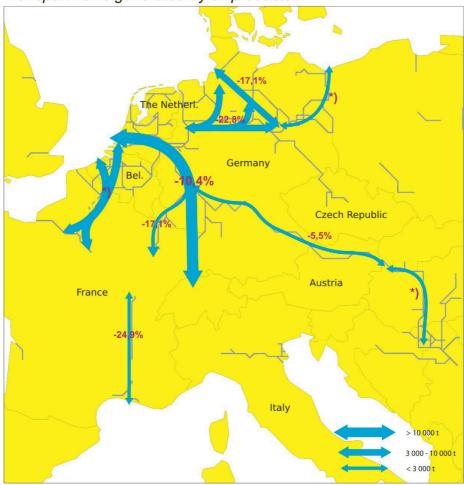
In the long term, these forecasts indicate that there may be a structural drop in demand for transport.

As a result of oil prices, which peaked in mid-2008, the volume transported on the Rhine during the first half of the year fell by 3.1% compared with the previous year (-5.6% for petrol and -1.4% for diesel oil and domestic fuel oil).

Starting in mid-August 2008, the first signs of a drop in oil prices produced an increase in the transport of oil products. This trend continued in the autumn of 2008 as prices continued to fall. Firstly, stocks had been low for a long period and the fall in prices was used to the full to replenish stocks during the second half of the year. Secondly, the transport of oil products benefited from the seasonal factor, i.e. the purchase of domestic fuel oil and fuels for the winter. This situation was reflected on the Rhine by an increase in demand for transport during the autumn. Demand was nevertheless less strong from November onwards, as stocks had been replenished by then.

Fig. 23:

Transport flows generated by oil products



*) data not available Source: CCNR Secretariat

2.3.7 Chemicals

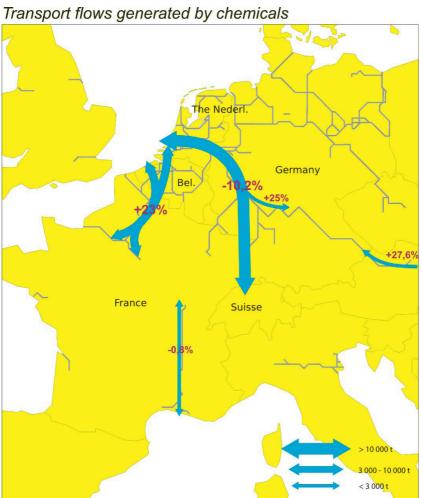
Growth continued in this sector in 2007. The volume of chemicals transported on the Rhine increased by 10% compared with the previous year.

During the first half of 2008, the volume transported on European inland waterways increased by no more than 1.6%.

This positive evolution in the volume transported up to July 2008 was the result of the favourable situation in the sector.

The trend was reversed after July 2008, under the effect of the worldwide economic crisis. For 2008 as a whole, the chemicals industry is expecting growth to be limited to 1%, after an increase of 5% in 2007. According to the experts, production in the chemicals sector should drop in 2009. This trend has in fact already been noticed in recent months. This evolution will also have an unfavourable effect on demand for transport on inland waterways.

Fig. 24:



Source: CCNR Secretariat

3. Handling in ports and inland navigation's share of the modal split

Observation of handling in the maritime sector in Europe's main sea ports gives indications of the evolution of general demand for transport, correlated with information on production in the various sectors of industry. Thus the sea ports supply information on European imports and exports. Imports and exports have a direct effect on general demand for transport, including on inland waterways. In most cases, the sea ports are linked to all the modes of transport (rail, route, waterways, short sea routes, and pipelines). This means they are able to obtain initial information on the modal split for transport into and out of the hinterland.

Observation of the main inland ports provides information on the evolution of navigation on inland waterways and on its position in inland regions, and on local demand for certain goods.

Fig. 25:



Source: CCNR Secretariat

3.1 Evolution in the sea ports

Evolution in the ports of the Hamburg-Le Havre Range with annual handling of more than 50 million tonnes (report covers up to the end of the third quarter, unless stated otherwise)

The following indications are based on the handling statistics published by the ports up to September 2008. It is, however, important to emphasise that the consequences of the economic crisis did not really start to be felt until October, with negative effects on every link in the transport chain. These are currently difficult times for shippers, particularly in the container sector.

Because of this, the market is taking steps to make savings, for example by reducing frequency and loading, and by cancelling orders for the construction of new vessels. The evolution in the transport of containers on regular routes has an effect on handling in the sea ports. After a particularly mediocre third quarter, the forecast for 2008 as a whole is for a slow-down and perhaps even stagnation. Thus the handling of containers is stagnant in the port of Rotterdam and the handling of raw materials for the chemicals sector is falling. The handling of iron ore has increased because of delivery contracts that are applicable until the end of the year. Whereas annual growth of 4 to 5% was still being announced in September, the port of Rotterdam has revised these figures downwards and is forecasting serious slowing down of growth in 2009. The Flemish sea ports have also noted a clear slowing of the economy. In the ports of Antwerp (containers) and Zeebrugge (handling of automobiles), growth is close to stagnation. The port authorities are expecting handling to fall back in the fourth quarter. The German sea ports are also anticipating a drop in loading volumes. The port of Hamburg is not expecting any increase in the handling of containers for this year. Until September, the increase had been 0.9%, but the trend was reversed in October. French ports have not been spared either.

ROTTERDAM

During the first nine months of 2008, 321 million tonnes passed through the port of Rotterdam, representing an increase of 6.1%. After three-quarters of the year, the port was still continuing to grow, although the handling of raw materials for the iron and steel and chemicals industries and the handling of containers declined at the first signs of the slowing down of the global economy. The second Maasvlakte went into construction in September; this will increase the port's capacity by 20%. Theoretically, the first vessel will tie up there in 2013.

147 million tonnes of bulk liquid cargo passed through the port during the first nine months of the year, representing an increase of 6.5%. The handling of crude oil increased by 7%, reaching a figure of 76 million tonnes. The handling of oil products increased by nearly 1%. Other bulk liquid cargos increased by 15.7% during the first three quarters, reaching a figure of 27 million tonnes, mainly in biodiesel and bioethanol.

For packages, the volume handled reached a figure of 102 million tonnes, i.e. an increase of 3.9%. The handling of containers, calculated in TEUs, increased by 2% to reach a figure of 8.2 million TEUs (a 6% increase in tonnage). Despite a 4% increase in TEUs during the first six months of the year, there has been a drop because of the slowing down of trade between the United Kingdom and Asia. Ro-ro trade has suffered from the slowing down of the United Kingdom's economy, although it has increased by 1.7%. The handling of other packages fell by 15%. The total volume of bulk products increased by 8.5% until the end of September 2008, reaching a figure of 71 million tonnes. Until the end of September, demand for the

transport of ores and scrap metal increased by 11% to reach the figure of 33 million tonnes, despite the substantial increase in ore prices in 2005. Demand comes largely from the extension of production capacity in Liège and Duisbourg. Approximately 22 million tonnes of coal passed through the port (+9%). German demand for coal increased because of structural factors and circumstances. The handling of bulk agricultural products increased by 29% up to July, reaching a figure of 5 million tonnes as a result of disappointing harvests in the European Union. With the improvement in harvests, handling settled at 25.6% in the third quarter. The handling of other dry bulk goods fell by 11%, as demand fell for the raw materials used by the chemicals sector and for building materials such as sand and gravel.

Source: Port of Rotterdam

ANTWERP

During the first nine months of the year, the port of Antwerp recorded a 7.2% increase in handling, representing 144 million tonnes. The effects of the slowing down of the global economy were not felt during the first half of the year, and record figures were even recorded in May. The increase in handling slowed down in the third quarter, however, compared to the first half of the year. For packages, containers continued to increase in importance from January to September (+9%), representing 6.7 million TEUs. The handling of vehicles increased by 2.5% during this period, reaching a figure of 723 500 units. Conventional packages fell by 15.3%, however, to approximately 13 million tonnes. The handling of bulk dry goods increased by 18% during the first three quarters of the year. Ore and coals even recorded larger increases further to the commissioning of a blast furnace in Liège and the increase in imports and stocks in connection with the increase in ore prices. Demand for raw materials for the chemicals industry increased by 9%. The handling of steel, however, fell by 16% until the third quarter, halting the continuous increase of the past three years. The handling of bulk liquid goods increased by 3.6%, with an increase of 9% for crude oil. Source: Port of Antwerp

HAMBURG

During the first half of 2008, the port of Hamburg handled more than 71 million tonnes of goods, i.e. an increase of 2.1% compared with the same period of 2007. Between January and July 2008, the handling of containers increased by 3.8% to reach the figure of approximately 5 million TEUs. Hamburg is suffering a drop in the transport of containers, particularly in trade with China, its main trading partner. The third quarter was much worse than the second. The consequences of the crisis are also noticeable in the weakness of the exchange rate for the dollar and the limited exports from Germany and other countries using Hamburg for their exports. As a result, the port will probably have to postpone its objective of achieving 10 million TEUs per year and becoming the lead container port in Europe. The handling of packages not in containers increased by 4.1% in the first half of the year, reaching a figure of 1.5 million tonnes. The handling of bulk goods fell by 3.7% to nearly 20 million tonnes. Ores, coals and foodstuffs fell by 12%, mainly because of the temporary drop in demand in the steel sector in connection with the replacement of an important blast furnace. The handling of other bulk dry goods, including scrap metal and building materials, increased nevertheless by 14.7%, reaching a figure of 574 000 tonnes. For bulk liquid goods, the increase was 0.2%, while imports of crude oil dropped by 13%. Imports of oil products increased, however (+26,8%). Inland navigation is of secondary importance in liaisons with the hinterland. Transport by inland waterway increased by 8% in the first quarter

(approximately 3 million tonnes), with an increase of nearly 40% for containers (total of 30 400 TEUs).

Source: Port of Hamburg

AMSTERDAM

The volume of handling in Amsterdam reached 57 million tonnes during the first three quarters of 2008, i.e. an increase of 12% compared with the same period of 2007. Dry goods are the main segment, with 27 million tonnes handled; this figure is almost identical to the figure for the previous year. Imports of coal slowed down, however. Liquid cargos, corresponding to approximately 25 million tonnes, increased by 26% during the first nine months, mainly because of the increase in exports of refined products. The handling of containers also increased, by 323 680 TEUs, corresponding to an increase of 18.4% compared with the same period of 2007.

Source: Port of Amsterdam

BREMEN

The twin port of Bremen/Bremerhaven, the second most important port in Germany, handled more than 57 million tonnes of goods in the first three quarters of 2008, i.e. an increase of 10.3%. The handling of bulk goods fell by 7.7% until the end of September, reaching a figure of 7.7 million tonnes. The handling of dry goods fell by 8.1% to 6.5 million tonnes, and the handling of liquid goods fell by 1% to 1.2 million tonnes. The handling of packages increased – up to the end of September, 4.2 million TEUs were handled, i.e. an increase of 15.2%. The port is used not only for containers and packages, but also for importing and exporting cars (> 2 million per year). Metals and agricultural products are also strongly represented. Approximately 50% of transport between the post and the hinterland is handled by rail; the figure is even higher for the container segment. Six million tonnes were transported by navigation on inland waterways in 2007.

Source: Port of Bremen

IF HAVRF

In the first quarter of 2008, Le Havre recorded an increase in handling. The second quarter was less favourable, and a slight drop was recorded for the first half of the year (-0.6%, corresponding to 38.9 million tonnes) compared with the same period of 2007. The main category of goods in the port of Le Havre is liquid goods. Handling for this segment increased by 2.6% during the first half of the year, to 23.6 million tonnes. General cargo accounted for 13 million tonnes, which corresponds to a relative drop of 4%. The handling of containers involved 1.2 million TEUs in the first half of the year. The first half of the year was promising, but there was a slowing down in the second half – the main reason for this was strike action. Solid bulk cargos accounted for 2.2 million tonnes, i.e. a drop of 3.4%. However, the handling of coal, the main partial segment, increased by 9.8% to 1.4 million tonnes. Since the handling of cement remained stable, the segment of "other solid bulk goods" is responsible for the drop in solid bulk goods.

Source: Port of Le Havre

ZEEBRUGGE

From January to September, the port of Zeebrugge handled 32 million tonnes of goods, i.e. an increase of 1.6%. The main segment is that of containers, handling of which increased by

11.1%, measured in TEUs. Liquid goods, the third most important segment, also increased (+6.3%). Handling involving ro-ro transport (the second most important segment) and solid bulk goods and other packages recorded a drop. Nearly 1.7 million new vehicles were handled in this port nevertheless, which corresponds to an increase of 1%.

Source: Port of Zeebrugge

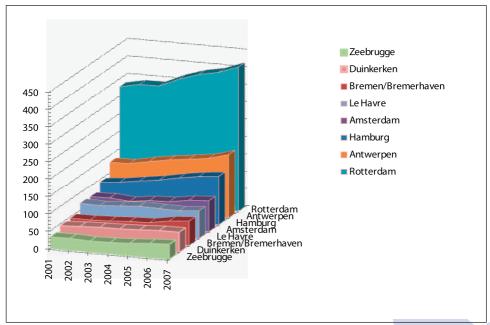
DUNKERQUE

Solid bulk goods constitute the main segment in this port (approximately 50%, mainly ore and coal), with the remaining two quarters divided generally between liquid goods and other goods. Despite a fall-back in the first quarter, handling increased by 2.7% during the first nine months of the year 2008, reaching a figure of 44 million tonnes. Over this same period, the handling of containers increased by 6.6% (measured in TEUs).

Source: Port of Dunkerque

The following graph shows the evolution of handling in million tonnes for the main sea ports in the Hamburg-Le Havre Range over the past six years, up to 2007. (Source: NHR)

Fig. 26: Evolution of handling in the main sea ports in the Hamburg – Le Havre Range (in million tonnes)



Source: NHR

3.2 Inland ports

German ports on the Rhine

In inland areas close to the North Sea sea ports, the inland ports serve industry and the local and regional economic catchment areas located along the German section of the Rhine. The following table lists handling in the main ports.

Handling in the main ports on the Rhine

in 1000 t	2006	2007	%
Duisbourg	47580	49402	3.7
Cologne	15631	15947	2.0
Mannheim	7949	8352	4.8
Ludwigshafen	7616	7984	4.6
Karlsruhe	7113	6385	-11.4
Neuss	6610	7193	8.1
Mainz-Wiesbaden	3285	3627	9.4
Andernach	2863	2647	-8.2
Düsseldorf	2492	2621	4.9
Leverkusen	2298	2368	2.9
Worth	1481	1584	6.5
Emmerich	1155	1411	18.1
Germersheim	1071	1143	6.4
Bonn	515	677	23.9

Inland ports in France

Inland port in France

In the year 2007, the port of Paris handled 21.4 mio. t of goods. Building materials as well as ores are by far the most important segments. However, the year 2006 had seen a slightly higher handling if goods. In the port of Le Havre, handling of goods decreased slightly in 2007 compared to 2006. Altogether, a turnover of 5 mio. t was observed, which represents a decrease by 6.6 %.

During the first months of 2008, Strasbourg handled approximately 4.2 million tonnes, i.e. 2% less than during the same period of 2007. Sand and earth and oil products are important products for this port, as are packages and cereals, although to a lesser extent. The handling of oil products fell by 2.4%, i.e. approximately 1.3 million tonnes, the handling of sand and earth increased slightly (+0.5%), i.e. 1.6 million tonnes, and the handling of cereals increased by 9.4% (0.5 million tonnes). The handling of containers reached the figure of 37 229 TEUs, i.e. 4.5% less than during the first half of 2007. Over 2007 as a whole, the port handled 8.8 million tonnes (an increase of 3.5% compared with 2006. Handling in the port of Mulhouse increased by 6% in the first half of 2008, accounting for 2.9 million tonnes. Agricultural and

oil products increased, while ores fell. The container segment increased by 4.3%; the level remained the same at Ottmarsheim (1.8 million tonnes).

In 2007 navigation on inland waterways handled more than 1.3 million tonnes. This volume is substantially more than in 2004 and 2005, but represents a drop of nearly 10% compared with 2006. Containers reached the figure of 83 171 TEUs, which corresponds to an increase of 1.6% compared with 2006.

Source: Port of Paris, Port of Le Havre, Port of Strasbourg, Port of Lille

Inland ports in Switzerland

BASLE

Basle recorded a slight drop of 0.2% for the first three quarters of 2008. Less oil, mineral oils, and chemicals came in, whereas there were more building materials. Iron and steel remained at a more or less steady level. The handling of containers involved 71 439 TEUs (a drop of 9.2%). Exports in particular recorded a drop.

• Inland ports in Belgium

BRUSSELS

In 2007, a total of 4.3 million tonnes were handled, i.e. an increase of 3% compared with 2006. Building materials accounted for 52% of the goods, oil products 24%, and agricultural products 9%.

GHENT

In 2007, inland waterways handled 17 717 603 tonnes, of which 11 468 437 tonnes in dry cargo, 4 844 582 tonnes in liquid cargo, and 1.4 million tonnes in packages. In 2007, 25 million tonnes of goods travelling by sea were handled, of which 20 million tonnes was bulk cargo and approximately 5 million tonnes was made up of packages.

LIÈGE

In 2007 the port of Liège recorded the waterways transport of 15 788 667 tonnes (compared with 14 413 738 tonnes in 2006), i.e. an increase of nearly 10%, which is a record for waterways transport. These results make the port of Liège the leading inland port in Belgium and the third most important in Europe (after Duisbourg and Paris). The handling of building materials, oil, ore, and solid fuels was particularly important.

Source: Port of Brussels, Port of Ghent, Port of Liège

Ports in Romania

CONSTANZA

The port of Constanza on the Black Sea has grown substantially in recent years. It occupies a strategic position between Asia and the emerging markets in eastern Europe. In 2007, 57 million tonnes of gods were transshipped in the port, which represents a drop of 5% compared with the previous year, although the volume of bulk goods continued to make progress. There was particular interest in containers from China and Turkey. Transshipments of containers reached the level of 1 million TEUs in 2007, compared with just 100 000 in 2003. In view of this strong increase, terminal capacity is currently being developed, with the

support of Community funding. Constanza hopes to become a new access port for Europe in the coming years, although it still has some way to go before it becomes an alternative route for supplies entering Europe. At the moment, containers being transported to the hinterland are mainly carried by road and rail. Because of the poor state of the networks, inland navigation manages to achieve 5% of the market. The canal between the Danube and the Black Sea is a worthwhile route for communication, but the fleet on the Danube has not been adapted sufficiently for the transport of containers, and in fact along the Danube there are very few well-equipped transshipment sites. The locks and their operating hours also influence the situation. For the transport of oil products, there is competition from pipelines, and a pan-European pipeline is currently under construction. This will reach as far as Trieste initially, and subsequently further into Europe.

Source: port of Constanza

Ports in Bulgaria

There are both sea ports and inland ports in Bulgaria. 32 million tonnes of goods were transshipped in 2007 in the sea ports of Varna and Burgas, and 6.7 million tonnes in the inland ports of Vidin, Rousse and Lom. This represents progress of 10% in the inland ports compared with 2006. Bulk goods such as coal and ore constitute the main categories of goods being transshipped, and it is these that have contributed most to the overall progress made. Most of the infrastructures in the Bulgarian ports date back to the 1950s, and maintenance has been neglected for a long time. Modernisation is therefore a priority for the coming years. Source: EVD(NL)

Ports in Austria

In 2007, the volume transshipped in Austrian ports reached a total of 9.8 million tonnes, corresponding to an increase of 12% compared with 2006. Ore and scrap metal represented 35% of the volume transshipped, building materials 10%, and other goods 27%. The port of Linz accounted for 53% of all transshipments, and Vienna 17%. During the first half of 2008, 4.6 million tonnes of goods were transshipped in Austrian ports. This is therefore slightly less than the previous year, although transshipments of iron and steel products made progress. Source: Bundesanstalt Statistik Österreich

SECTION 2: ANALYSIS OF THE OFFER OF TRANSPORT

1. Structure of the European fleets

Comparison of the situation of the fleets of the main States of western Europe shows that over the past eight years there has been a drop of nearly 30% in self-propelled barges with a capacity of less than 1000 tonnes. Many of these units are being used as accommodation, while some have been sold to other States. There are very few new constructions in this category of vessel.

Traffic on the Rhine mainly involves large units, which are more profitable when water conditions are normal. Small units are necessary, however, for transport on many secondary waterways in Belgium, northern France, eastern Germany, Poland and the Czech Republic. Thus withdrawing small, relatively unproductive units from service does not have much effect on the general offer of transport, but it is reflected at times by a lack of available capacity on certain waterways where there are niches of activity.

Although the number of small units is decreasing, the fleets of western Europe are building up the number of newly constructed large units. These vessels are mainly operated on the Rhine. The average number of units is stable, with the occasional new construction.

2. New transport capacity on the market

The available data on the commissioning of new vessels in 2007 shows strong construction activity for new vessels for the transport of dry goods. 74 new self-propelled barges with an average capacity of more than 3000 tonnes and 31 barges with an average capacity of nearly 2800 tonnes have been put into circulation. This means that nearly twice as many new vessels were commissioned in the course of the year compared with 2006. These are nearly all large, highly productive units that are operational round the clock.

This means that the European fleet of self-propelled barges increased by nearly 4% in 2007, given that very few units are currently being withdrawn from the market to be broken up or converted. 31 tanker vessels were put into circulation in 2007, with an average capacity of approximately 2500 tonnes. This increase in capacity is comparable to the figure for 2006, and may be estimated at 4%, the same as for vessels for transporting dry goods. In the light of the figures currently available for 2008, new capacity appeared to be continuing to come onto the market in the first half of 2008 at the same pace as in 2007. Although owners are still very active at the moment, a number of orders for vessels have already been cancelled, as investors prefer to refrain from committing themselves at a time of serious uncertainty about the medium-term evolution of demand for transport.

Breakdown by capacity of new units on the market

- , ,		2006	2007	
Type of vessel	Number	Capacity	Number	Capacity
Self-propelled barges	41	100%	74	100%
0 - 1999 t	5	5.1%	4	2.5%
2000 - 2999 t	9	20.7%	10	10.2%
+ 3000 t	25	74.2%	60	87.3%
not known	3	-	0	-
Push barges	25	100%	34	100%
0 - 1999 t	15	25.6%	2	1.8%
2000 - 2999 t	6	61.2%	26	74.6%
+ 3000 t	1	13.2%	6	23.6%
not known	4	-	0	-
Tanker vessels	35	100%	31	100%
0 - 1999 t	7	12.7%	10	16.6%
2000 - 2999 t	7	19.2%	11	36.9%
+ 3000 t	15	68.1%	10	46.5%
not known	6	-	0	-

T	!	2008
Type de bateau	Number	Capacity
Self-propelled barges	23	100.0%
0 - 1999 t	1	2.0%
2000 - 2999 t	3	9.0%
+ 3000 t	18	89.0%
not known	1	-
Push barges	27	100.0%
0 - 1999 t	2	15.0%
2000 - 2999 t	5	67.5%
+ 3000 t	1	17.5%
not known	19	-
Tanker vessels	16	100.0%
0 - 1999 t	3	11.0%
2000 - 2999 t	3	18.0%
+ 3000 t	6	71.0%
not known	4	-

Sources: IVR + national authorities

SECTION 3: WATER CONDITIONS

1. Water conditions and operating capacity

Overall, the water conditions of the various inland waterways in Europe may be qualified as satisfactory for the years 2007 and 2008. Apart from a few usual seasonal variations, draught possibilities were on the whole satisfactory and allowed optimal loading of vessels. The favourable water conditions on the upper Danube enabled this sector to record a significant increase in the volume transported.

2. Water conditions on the Rhine

No extreme variation in the water level was recorded the Rhine during 2007. There were no periods of low water until the end of October and during the first half of November, when one period lasted three weeks.

Although water conditions were relatively poor on the Rhine in January and February 2008, they were substantially favourable between March and August. Following the seasonal cycle, the trend was towards a drop in the autumn; precipitation nevertheless made it possible to avoid long periods of low water levels.

Fig. 27: Evolution of water conditions at Kaub

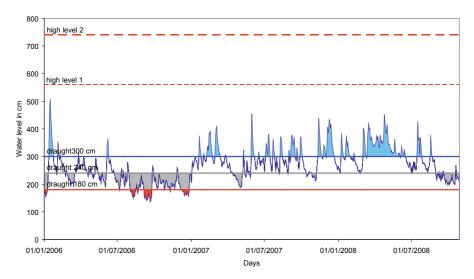
Evolution of water levels at Kaub 800 high level 2 700 600 high level 1 500 Water level in cm 400 300 draught 240 cm draught 180 cm 200 100 0 01/01/2006 01/07/2006 01/01/2007 01/07/2007 01/01/2008 01/07/2008 Days

Source: BAFG

3. Water conditions on the upper Danube

Fig. 28: Evolution of water levels at Hofkirchen

Evolution of water levels at Hofkirchen



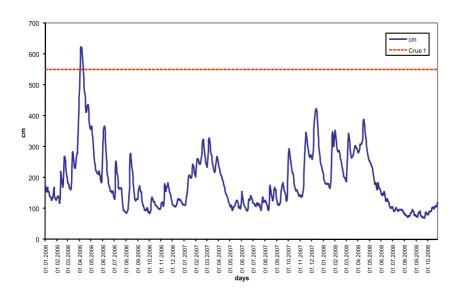
Source: BAFG

The chart shows that the upper Danube enjoyed average water conditions in 2007 and throughout most of 2008, showing a clear improvement compared with 2006. This is partly because of the considerable increase in the volume transported on this sector of the Danube, which is relatively sensitive to variations in water conditions.

4. Water conditions on the Elbe at Magdeburg

Water conditions during 2007 may be considered to have been average, apart from seasonal fluctuations.

Fig. 29: Evolution of water levels at Magdeburg



The graph nevertheless shows that there was a period of low water in the summer of 2008. This means that water conditions were less favourable than in 2007. There were no periods of notable high water during the two years.

Conclusions and forecasts

During 2007 and the first half of 2008, demand for transport continued its sustained progress, supported by a situation that was still favourable in all the sectors that are decisive for navigation on inland waterways. Until the summer, oil was the only sector where the volumes transported fell. The collapse of oil prices on the world market in 2008 nevertheless had the effect of increasing demand on the market significantly, and an exceptional level of freight was recorded in the autumn. For containers, the limiting effect of congestion, particularly in the port of Rotterdam, continued to hamper the development of transport on inland waterways, despite the constant increase in maritime transshipments.

During 2007 and the first half of 2008, water conditions were relatively favourable for optimal loading of vessels, and therefore did not constitute a hindrance to the development

of transport.

Effects of the economic crisis

In terms of demand for transport, a radical change in trend occurred in the last quarter of 2008. At the time of going to press, actual figures are not yet available for transport on inland waterways. Nevertheless, given the substantial drop in production in all the sectors of industry which represent approximately 75% of the volume transported by inland waterway in Europe (the remaining 25% corresponding to the agricultural sector and the transport of oil products) and a substantial drop in arrivals of containers in the sea ports, there is every reason to fear a clear drop in demand for transport on inland waterways. The cruise vessel sector will not be spared by the crisis either, because of its serious effect on the American clientele that constitutes an important proportion of the market on inland waterways in Europe. The figures for this will be available in the first half of 2009.

In terms of available transport capacity, 2007 was evidently a record year for the commissioning of vessels in the dry goods sector. For tanker transport, new capacity was about 20% less than in 2006.

There is no doubt that the pace of new commissioning would have continued throughout the year if the crisis had not put an abrupt halt to it in the autumn of 2008. At present, a good number of orders for hulls have been cancelled and investors are attempting to adapt their strategy to falling demand as quickly as possible.

It should be recalled that over the past eight years, capacity in the dry good sector has increased, with 13% of vessels newly commissioned, in a market where until recently the rate of growth in demand was comparable to that of the fleet.

Tanker capacity has increased by 38% over the past eight years, in a context of stagnant demand; the fleet has been renewed for technical reasons.

In the current more than morose climate, it should be noted that there is one factor that is making it considerably easier to operate vessels – the substantial drop in the price of fuel.

Annexes

Offer of transport capacity

	Self propell	lad baraas		Ordina	ry barges		Total capacity / dry c				
	Units		Power	Units		Power	Units		Power		
	Nbre	Tonnage	kW	Nbre	Tonnage	kW	Nbre	Tonnage t	kW		
31.12.2005	Nore	T	KVV	Nore	T	KVV	Nore	f	KVV		
Germany	937	1115046	483221	915	864366		1852	1979412	483221		
Austria (2004)	5	7058	400221	54	84807		59	91865	0		
Belgium	1029	1009258	505767	231	429666		1260	1438924	505767		
France	917	491114	179878	461	521328		1378	1012442	179878		
Luxemburg	17	18679	9524	0	0		1378	18679	9524		
Netherlands	3008	3209011	1566798	781	1374696		3789	4583707	1566798		
Switzerland	15	32107	16899	2	3338		17	35445	16899		
Poland	10	02107	10077		0000		0	0	0		
Czech Republic	66			177			243	0	0		
Slowakia	25	19932		150	222731		175	242663	0		
Hungary	92	17732		360	222/31		452	242003	0		
total	6111	5902205	2762087	3131	3500932		9242	9403137	2762087		
31.12.2006	0111	3702203	2702007	3131	3300732		7272	7403137	2702007		
Germany	902	1080755	495775	901	863287		1803	1944042	495775		
Austria (2004)	5	7058	493773	54	84807		59	91865	493773		
Belgium	1042	1072502	543816	230	468629		1272	1541131	543816		
France	892	501391	179027	424	459822		1316	961213	179027		
				0	439622			12821			
Luxemburg	13	12821	6689		-		13		6689		
Netherlands	3039	3296591	1582804	789	1388295		3828	4684886	1582804		
Switzerland	18	37243	18724	2	3339		20	40582	18724		
Poland	40	20146	9571	11	6425		51	26571	9571		
Czech Republic	68	61659	28698	249	123989		317	185648	28698		
Slowakia	20	28390	13073	117	205126		137	233516	13073		
Hungary	92	0.40071	1050	360	10700/0		452	0	0		
Romania	281	342071	1952	601	1072960		882	1415031	1952		
Bulgaria	15	10321	12485	153	74893		168	85214	12485		
total	6427	6470948	2892614	3891	4751572		10318	11222520	2892614		
31.12.2007								1			
Germany	886	1095787	505031	854	854121		1740	1949908	505031		
Austria (2004)	5	7058	0	54	84807		59	91865	0		
Belgium	1193	1153108	583559	228	461121		1421	1614229	583559		
France	867	503926	178939	425	463949		1292	967875	178939		
Luxemburg	12	11400	6027	0	0		12	11400	6027		
Netherlands	3086	3477553	1605008	797	1448779		3883	4926332	1605008		
Switzerland	16	30488	15282	1	1259		17	31747	15282		
Poland	107	64668	30208	428	217219		535	281887	30208		
Czech Republic	68	61659	28698	249	123989		317	185648	28698		
Slowakia	14	20697	11013	132	215625		146	236322	11013		
Hungary	4	4494	1964	132	215625		136	220119	1964		
Romania	286	347730	4986	601	1073187		887	1420917	4986		
Bulgaria	15	11451	11311	152	74893		167	86344	11311		
total	6559	6790019	2982026	4053	5234574		10612	12024593	2982026		

(Data for the dutch fleet are based on an estimation by the secretariat of the CCNR) (For Poland a new data source was used)

Table MO1 - INLAND FLEETS 2005-2007 (Summary) BY CAPACITY OF VESSELS

	- 14			_			Total capacity of tanker fleet			
		pelled tank			ınker barç	ř –				
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power	
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW	
		1		31.12.200						
Germany	369	603569	287183	47	54196		416	657765	287183	
Austria (2004)	5	5601		15	22055		20	27656	0	
Belgium	213	301523	140767	5	8041		218	309564	140767	
France	29	37182	11518	48	70710		77	107892	11518	
Luxemburg	18	30481	15720	2	8435		20	38916	15720	
Netherlands	703	814207	446633	39	68240		742	882447	446633	
Switzerland	34	84099	37356	1	2073		35	86172	37356	
Poland							0	0	0	
Czech Republic							0	0	0	
Slowakia	3	4200		42	58478		45	62678	0	
Hungary							0	0	0	
total	1374	1880862	939177	199	292228		1573	2173090	939177	
				31.12.200	6	•	•	•	•	
Germany	375	619646	312577	47	53436		422	673082	312577	
Austria (2004)	5	5601		15	22055		20	27656	0	
Belgium	218	316761	147157	5	8049		223	324810	147157	
France	31	41551	11562	46	72835		77	114386	11562	
Luxemburg	16	27754	13838	2	8435		18	36189	13838	
Netherlands	728	876505	465024	39	68241		767	944746	465024	
Switzerland	36	88395	38822	1	2073		37	90468	38822	
Poland	1			2			3	0	0	
Czech Republic	1			0			1	0	0	
Slowakia	3	3669	2041	30	45949		33	49618	2041	
Hungary							0	0	0	
Romania	9	18040	883	0	0		9	18040	883	
Bulgaria	0	0	0	0	0		0	0	0	
total	1423	1997922	991904	187	281073		1610	2278995	991904	
				31.12.200			.0.0		,,,,,	
Germany	377	618953	324237	46	52634		423	671587	324237	
Austria (2004)	5	5601	0	15	22055		20	27656	024207	
Belgium	232	335150	154934	5	9533		237	344683	154934	
France	33	39590	10088	44	65505		77	105095	10088	
Luxemburg	16	27754	13838	0	03303		16	27754	13838	
Netherlands	746	935391	477953	39	68240		785	1003631	477953	
Switzerland	44	106637	47781	2	4043		46	110680	47781	
Poland	0	0	0	0	0		0	0	0	
Czech Republic	1	0	0	0	0		1	0	0	
Slowakia	3	3669	2041	30	45949		33	49618	2041	
	2	1167	2041	2	4043		4			
Hungary	9						9	5210	0	
Romania		18040	883	0	0			18040	883	
Bulgaria	0	0	0	0	0		0	0	0	
total	1468	2091952	1031755	183	272002	1	1651	2363954	1031755	

(Data for the dutch fleet are based on an estimation by the secretariat of the CCNR) (For Poland a new data source was used)

	Self-prop	elled tank	erbarges	To	ınker barç	ges	Total capacity of tanker fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
			3	1.12.200	5				
Germany	143		28925	293		133646	436		162571
Austria (2004)				10		9200	10		9200
Belgium	12		2941	107		54511	119		57452
France	35		5908	242		131606	277		137514
Luxemburg	0		0	18		15220	18		15220
Netherlands	461		91532	500		195665	961		287197
Switzerland	1		368	5		1947	6		2315
Poland							0		0
Czech Republic				111			111		0
Slowakia	8		6995	39		40234	47		47229
Hungary	56			24			80		0
total	716		136669	1349		582029	2065		718698
			3	31.12.200	6				
Germany	143		28064	303		139410	446		167474
Austria (2004)				10		9200	10		9200
Belgium	0		0	123		57041	123		57041
France	35		5908	242		131606	277		137514
Luxemburg	0		0	17		14787	17		14787
Netherlands	461		91532	500		195665	961		287197
Switzerland	1		368	1		353	2		721
Poland	0		0	13		3670	13		3670
Czech Republic	51		7245	123		13872	174		21117
Slowakia	4		5858	33		36184	37		42042
Hungary	56			24			80		0
Romania	0		0	31		6997	31		6997
Bulgaria	0		0	24		28083	24		28083
total	751		138975	1444		636868	2195		775843

	Self-prop	elled tank	erbarges	To	ınker barç	ges	Total capacity of tanker fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
			3	31.12.200	7				
Germany	139		27768	292		138985	431		166753
Austria (2004)	0		0	10		9200	10		9200
Belgium	23		6068	118		53655	141		59723
France	0		0	0		0	0		0
Luxemburg	0		0	0		0	0		0
Netherlands	126		89731	802		197203	928		286934
Switzerland	1		353	4		1398	5		1751
Poland	0		0	0		0	0		0
Czech Republic	51		7245	123		13872	174		21117
Slowakia	0		0	36		40570	36		40570
Hungary	0		0	0		0	0		0
Romania	45		14303	31		6997	76		21300
Bulgaria	26		10930	24		28083	50		39013
total	411		156398	1440		489963	1851		646361

(Data for the dutch fleet are based on an estimation by the secretariat of the CCNR) **Austria:** non detailled data avaible only from 2004 **France:** from 2004 until 2006, data about the tugs and pusher tugs provided by the french transport Ministry

(For Poland a new data source was used)

Table MO2 - INLAND FLEETS AT 31.12.2007 BY TONNAGE

	Ordine	ary self-pr barges	opelled	Ord	linary bar	ges		apacity of t cargo fleet	he dry
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Germany									
up to 249 t	25	3946	2484	65	8482		90	12428	2484
250 - 399 t	50	16097	9685	92	33416		142	49513	9685
400 - 649 t	40	20715	11874	311	136767		351	157482	11874
650 - 999 t	174	145757	66732	83	72029		257	217786	6673
1000 - 1499 t	360	434631	202494	95	118942		455	553573	20249
1500 - 1999 t	123	212194	96863	63	107025		186	319219	9686
2000 - 2499 t	58	127804	54780	59	137360		117	265164	5478
2500 - 2999 t	43	114860	47575	77	212854		120	327714	4757
3000 t and more	6	19783	8831	7	27244		13	47027	883
not known	7	0	3713	2	0		9	0	371
total	886	1095787	505031	854	854121	854	1740	1949908	50503
Austria (2004)									
Up tp 249 t	0	0	0	0	0		0	0	-
250 - 399 t	1	364		1	259		2	623	
400 - 649 t	0	0	0	0	0		0	0	(
650 - 999 t							0	0	-
1000 - 1499 t							0	0	
1500 - 1999 t							0	0	
2000 - 2499 t	4	6694		53	84548		57	91242	
2500 - 2999 t							0	0	
3000 t and more							0	0	
Not known							0	0	1
total	5	7058	0	54	84807		59	91865	
Belgium									
Up to 249 t	11	990	2504	5	398		16	1388	250
250 - 399 t	382	137966	74371	20	6864		402	144830	7437
400 - 649 t	178	97387	49878	34	1 <i>77</i> 85		212	115172	4987
650 - 999 t	1 <i>7</i> 2	138264	<i>7</i> 291 <i>7</i>	9	<i>7</i> 594		181	145858	7291
1000 - 1499 t	246	297015	152824	22	27686		268	324701	15282
1500 - 1999 t	<i>7</i> 1	117904	60427	16	28028		87	145932	6042
2000 - 2499 t	52	115443	53772	21	50554		73	165997	5377
2500 - 2999 t	41	113300	55501	48	135065		89	248365	5550
3000 t and more	40	134839	61366	53	187147		93	321986	6136
Not known	0	0	0	0	0		0	0	(
total	1193	1153108	583559	228	461121		1421	1614229	583559

	Ordine	ary self-pr barges	opelled	Ord	linary bar	ges		apacity of t cargo fleet	he dry
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
France									
Up to 249 t	1	242	110	0	0		1	242	110
250 - 399 t	508	192392	77523	44	14939		552	207331	77523
400 - 649 t	13 <i>7</i>	67670	25130	161	80806		298	148476	25130
650 - 999 t	11 <i>7</i>	97826	35483	90	68111		207	165937	35483
1000 - 1499 t	79	96197	27791	18	22177		97	118374	27791
1500 - 1999 t	13	21148	6031	16	26985		29	48133	6031
2000 - 2499 t	8	17581	3431	21	46714		29	64295	3431
2500 - 2999 t	4	10870	3440	74	200567		78	211437	3440
3000 t and more	0	0	0	1	3650		1	3650	0
Not known	0	0	0	0	0		0	0	0
total	867	503926	178939	425	463949		1292	967875	178939
Luxemburg									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	2	732	582	0	0		2	732	582
400 - 649 t	1	500	368	0	0		1	500	368
650 - 999 t	2	1445	684	0	0		2	1445	684
1000 - 1499 t	6	7137	3686	0	0		6	7137	3686
1500 - 1999 t	1	1587	707	0	0		1	1587	707
2000 - 2499 t	0	0	0	0	0		0	0	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0	0	0		0	0	0
total	12	11400	6027	0	0		12	11400	6027
Netherlands									
Up to 249 t	115	16748	10927	120	13519		235	30267	10927
250 - 399 t	271	90792	45229	31	10249		302	101041	45229
400 - 649 t	501	271735	136554	66	36728		567	308463	136554
650 - 999 t	725	586981	287150	36	30696		761	617677	287150
1000 - 1499 t	673	809753	382847	41	50477		714	860230	382847
1500 - 1999 t	281	476181	219079	50	85066		331	561247	219079
2000 - 2499 t	133	298354	133489	87	196988		220	495342	133489
2500 - 2999 t	117	321129	150372	230	640244		347	961373	150372
3000 t and more	170	605880	215387	98	384811		268	990691	215387
Not known	100	0	23974	38	0		138	0	23974
total	3086	3477553	1605008	797	1448779		3883	4926332	1605008

	Ordine	ary self-pr barges	opelled	Ord	linary bar	ges		apacity of tl cargo fleet	ne dry
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Switzerland									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	2	682	316	0	0		2	682	316
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	(
1000 - 1499 t	1	1176	948	1	1259		2	2435	948
1500 - 1999 t	6	11393	6649	0	0		6	11393	6649
2000 - 2499 t	2	4443	2561	0	0		2	4443	256
2500 - 2999 t	1	2987	880	0	0		1	2987	880
3000 t and more	3	9807	3928	0	0		3	9807	3928
Not known	1	0	0	0	0		1	0	(
total	16	30488	15282	1	1259		1 <i>7</i>	31747	15282
Hungary									
Up to 249 t	0	0	0	0	0		0	0	(
250 - 399 t	0	0	0	0	0		0	0	(
400 - 649 t	0	0	0	0	0		0	0	(
650 - 999 t	2	1619	787	1	793		3	2412	787
1000 - 1499 t	1	1223	588	0	0		1	1223	588
1500 - 1999 t	1	1652	589	0	0		1	1652	589
2000 - 2499 t	0	0	0	0	0		0	0	-
2500 - 2999 t	0	0	0	0	0		0	0	(
3000 t and more	0	0	0	0	0		0	0	(
Not known	0	0	0	0	0		0	0	(
total	4	4494	1964	1	793		5	5287	1964
Slowakia									
Up to 249 t	0	0	0	0	0		0	0	(
250 - 399 t	0	0	0	0	0		0	0	(
400 - 649 t	0	0	0	11	6600		11	6600	(
650 - 999 t	4	3329	2067	4	3899		8	7228	206
1000 - 1499 t	3	3816	1 <i>7</i> 36	4	4653		7	8469	173
1500 - 1999 t	4	7445	4120	113	200473		11 <i>7</i>	207918	4120
2000 - 2499 t	3	6107	3090	0	0		3	6107	3090
2500 - 2999 t	0	0	0	0	0		0	0	(
3000 t and more	0	0	0	0	0		0	0	(
Not known	0	0	0	0	0		0	0	(
total	14	20697	11013	132	215625		146	236322	11013

	Ordinary self-propelled barges			Ord	linary bar	ges	Total capacity of the dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Romania									
Up to 249 t	0	0	0	1	233		1	233	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	7	3637	0	5	2409		12	6046	0
650 - 999 t	17	15255	758	12	11655		29	26910	758
1000 - 1499 t	223	252044	1754	303	404163		526	656207	1754
1500 - 1999 t	39	76794	2474	85	141297		124	218091	2474
2000 - 2499 t	0	0	0	73	152519		73	152519	0
2500 - 2999 t	0	0	0	118	340855		118	340855	0
3000 t and more	0	0	0	4	20056		4	20056	0
Not known	0	0	0	0	0		0	0	0
total	286	347730	4986	601	1073187		887	1420917	4986
Bulgaria									
Up to 249 t	1	160	368	2	101		3	261	368
250 - 399 t	2	595	330	1	378		3	973	330
400 - 649 t	0	0	0	12	6073		12	6073	0
650 - 999 t	1	930	442	66	51132		67	52062	442
1000 - 1499 t	1	1117	489	16	17209		17	18326	489
1500 - 1999 t	5	8649	3352	0	0		5	8649	3352
2000 - 2499 t	0	0	0	0	0		0	0	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	5	0	6330	55	0		60	0	6330
total	15	11451	11311	152	74893		167	86344	11311
Czech Republic									
Up to 249 t	2	161	135	103	11225		105	11386	135
250 - 399 t	0	0	0	22	7727		22	7727	0
400 - 649 t	14	8367	4758	49	26569		63	34936	4758
650 - 999 t	15	11459	5542	18	15249		33	26708	5542
1000 - 1499 t	36	41672	18131	51	63220		87	104892	18131
1500 - 1999 t	0	0	0	0	0		0	0	0
2000 - 2499 t	0	0	0	0	0		0	0	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	1	0	132	6	0		7	0	132
total	68	61659	28698	249	123989		317	185648	28698

	Ordine	ary self-pr barges	opelled	Ord	linary bar	ges	Total capacity of the dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Poland	•	•	•				•		
Up to 249 t	0	0	0	48	6456		48	6456	0
250 - 399 t	0	0	0	80	29437		80	29437	0
400 - 649 t	81	39993	19401	237	116515		318	156508	19401
650 - 999 t	16	13653	6107	38	30040		54	43693	6107
1000 - 1499 t	10	11022	4700	19	21647		29	32669	4700
1500 - 1999 t	0	0	0	0	0		0	0	0
2000 - 2499 t	0	0	0	6	13124		6	13124	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0	0	0		0	0	0
total	107	64668	30208	428	217219		535	281887	30208
Total									
Up to 249 t	155	22247	16528	344	40414		499	62661	16528
250 - 399 t	1218	439620	208036	291	103269		1509	542889	208036
400 - 649 t	959	510004	247963	886	430252		1845	940256	247963
650 - 999 t	1245	1016518	478669	357	291198		1602	1307716	478669
1000 - 1499 t	1639	1956803	797988	570	731433		2209	2688236	797988
1500 - 1999 t	544	934947	400291	343	588874		887	1523821	400291
2000 - 2499 t	260	576426	251123	320	681807		580	1258233	251123
2500 - 2999 t	206	563146	257768	547	1529585		753	2092731	257768
3000 t and more	219	770309	289512	163	622908		382	1393217	289512
Not known	114	0	34149	101	0		215	0	34149
total	6559	6790019	2982026	3922	5019742		10481	11809761	2982026

	Self-pro	oelled tank	cerbarges	Ta	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Sermany									
up to 249 t	2	357	372	4	513		6	870	372
250 - 399 t	1	337	272	2	782		3	1119	27
400 - 649 t	4	2157	1306	13	6374		17	8531	130
650 - 999 t	16	13278	7193	7	6094		23	19372	719
1000 - 1499 t	154	196337	105544	3	4065		157	200402	10554
1500 - 1999 t	69	116360	60455	4	6660		73	123020	6045
2000 - 2499 t	69	154019	72347	9	20295		78	174314	7234
2500 - 2999 t	31	84722	38784	3	<i>7</i> 851		34	92573	3878
3000 t and more	16	51386	24030	0	0		16	51386	2403
not known	15	0	13934	1	0		16	0	1393
total	377	618953	324237	46	52634		423	671587	32423
lustria (2004)								,	
Up tp 249 t	0	0	0	0	0		0	0	
250 - 399 t	0	0	0	0	0		0	0	
400 - 649 t	0	0	0	0	0		0	0	
650 - 999 t	0	0	0	0	0		0	0	
1000 - 1499 t	0	0	0	0	0		0	0	
1500 - 1999 t	0	0	0	0	0		0	0	
2000 - 2499 t	0	0	0	0	0		0	0	
2500 - 2999 t	5	5601	0	15	22055		20	27656	
3000 t and more	0	0	0	0	0		0	0	
Not known	0	0	0	0	0		0	0	
total	5	5601	0	15	22055		20	27656	
elgium							•		
Up to 249 t	44	4201	5648	0	0		44	4201	564
250 - 399 t	19	6338	3697	0	0		19	6338	369
400 - 649 t	27	13633	7237	0	0		27	13633	723
650 - 999 t	10	7990	4904	1	945		11	8935	490
1000 - 1499 t	46	56636	29680	1	1103		47	57739	2968
1500 - 1999 t	16	27674	13607	0	0		16	27674	1360
2000 - 2499 t	23	52426	23134	2	4562		25	56988	2313
2500 - 2999 t	15	41947	18345	1	2923		16	44870	1834
3000 t and more	32	124305	48682	0	0		32	124305	4868
Not known	44	4201	5648	0	0		44	4201	564
total	232	335150	154934	5	9533		237	344683	15493

	Self-prop	elled tank	cerbarges	Ta	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
France									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	12	4400	1789	0	0		12	4400	1 <i>7</i> 89
400 - 649 t	6	2803	1083	12	5843		18	8646	1083
650 - 999 t	1	672	257	8	6267		9	6939	257
1000 - 1499 t	2	2680	801	4	4493		6	7173	801
1500 - 1999 t	2	3299	1249	4	7273		6	10572	1249
2000 - 2499 t	5	11605	4909	8	193 <i>57</i>		13	30962	4909
2500 - 2999 t	4	10231	0	6	16206		10	26437	0
3000 t and more	1	3900	0	2	6066		3	9966	0
Not known	0	0	0	0	0		0	0	0
total	33	39590	10088	44	65505		77	105095	10088
Luxemburg									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	1	920	544	0	0		1	920	544
1000 - 1499 t	8	9861	5028	0	0		8	9861	5028
1500 - 1999 t	2	3656	1704	0	0		2	3656	1704
2000 - 2499 t	2	4269	1934	0	0		2	4269	1934
2500 - 2999 t	1	2895	2648	0	0		1	2895	2648
3000 t and more	2	6153	1980	0	0		2	6153	1980
Not known	0	0	0	0	0		0	0	0
total	16	27754	13838	0	0		16	27754	13838
Netherlands									
Up to 249 t	221	23047	25849	1	79		222	23126	25849
250 - 399 t	26	8231	4599	1	314		27	8545	4599
400 - 649 t	55	28059	15226	3	1425		58	29484	15226
650 - 999 t	53	42655	21086	3	2381		56	45036	21086
1000 - 1499 t	95	119387	60794	5	7101		100	126488	60794
1500 - 1999 t	70	116639	69454	4	6768		74	123407	69454
2000 - 2499 t	<i>7</i> 1	155634	74775	11	24507		82	180141	74775
2500 - 2999 t	44	122295	57352	7	18392		51	140687	57352
3000 t and more	82	319443	140466	2	7274		84	326717	140466
Not known	29	0	8352	2	0		31	0	8352
total	746	935391	477953	39	68240		785	1003631	477953

	Self-prop	oelled tank	cerbarges	Ta	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Switzerland									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	0
1000 - 1499 t	8	10424	6033	0	0		8	10424	6033
1500 - 1999 t	5	8036	4215	1	1970		6	10006	4215
2000 - 2499 t	4	8918	3482	1	2073		5	10991	3482
2500 - 2999 t	18	48664	21124	0	0		18	48664	21124
3000 t and more	9	30595	12927	0	0		9	30595	12927
Not known	0	0	0	0	0		0	0	0
total	44	106637	47781	2	4043		46	110680	47781
Hungary									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	0
1000 - 1499 t	1	1167	0	0	0		1	1167	0
1500 - 1999 t	0	0	0	1	1970		1	1970	0
2000 - 2499 t	0	0	0	1	2073		1	2073	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	1	0	0	0	0		1	0	0
total	2	1167	0	2	4043		4	5210	0
Slowakia									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	1	442	234	0	0		1	442	234
650 - 999 t	0	0	0	2	1782		2	1782	0
1000 - 1499 t	1	1227	736	2	2218		3	3445	736
1500 - 1999 t	0	0	0	26	41949		26	41949	0
2000 - 2499 t	1	2000	1071	0	0		1	2000	1071
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0	0	0		0	0	0
total	3	3669	2041	30	45949		33	49618	2041

	Self-prop	pelled tanl	cerbarges .	Ta	nker barg	es	Total cape	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Romania									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	0
1000 - 1499 t	0	0	0	0	0		0	0	0
1500 - 1999 t	8	15544	0	0	0		8	15544	0
2000 - 2499 t	1	2496	883	0	0		1	2496	883
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0	0	0		0	0	0
total	9	18040	883	0	0		9	18040	883
Bulgaria									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	0
1000 - 1499 t	0	0	0	0	0		0	0	0
1500 - 1999 t	0	0	0	0	0		0	0	0
2000 - 2499 t	0	0	0	0	0		0	0	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0	0	0		0	0	0
total	0	0	0	0	0		0	0	0
Czech Republic									
Up to 249 t	0	0	0	0	0		0	0	0
250 - 399 t	0	0	0	0	0		0	0	0
400 - 649 t	0	0	0	0	0		0	0	0
650 - 999 t	0	0	0	0	0		0	0	0
1000 - 1499 t	0	0	0	0	0		0	0	0
1500 - 1999 t	0	0	0	0	0		0	0	0
2000 - 2499 t	0	0	0	0	0		0	0	0
2500 - 2999 t	0	0	0	0	0		0	0	0
3000 t and more	0	0	0	0	0		0	0	0
Not known	0	0	0				0	0	0
total	1	0	0	0	0		1	0	0

	Self-pro	pelled tanl	kerbarges	Ta	nker barge	es	Total capacity of tanker fleet			
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power	
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW	
Poland										
Up to 249 t	0	0	0	0	0		0	0	0	
250 - 399 t	0	0	0	0	0		0	0	0	
400 - 649 t	0	0	0	0	0		0	0	0	
650 - 999 t	0	0	0	0	0		0	0	0	
1000 - 1499 t	0	0	0	0	0		0	0	0	
1500 - 1999 t	0	0	0	0	0		0	0	0	
2000 - 2499 t	0	0	0	0	0		0	0	0	
2500 - 2999 t	0	0	0	0	0		0	0	0	
3000 t and more	0	0	0	0	0		0	0	0	
Not known	0	0	0	0	0		0	0	0	
total	0	0	0	0	0		0	0	0	
Total										
Up to 249 t	267	27605	31869	5	592	267	272	28197	31869	
250 - 399 t	58	19306	10357	3	1096	58	61	20402	10357	
400 - 649 t	93	47094	25086	28	13642	93	121	60736	25086	
650 - 999 t	81	65515	33984	21	17469	81	102	82984	33984	
1000 - 1499 t	315	397719	208616	15	18980	315	330	416699	208616	
1500 - 1999 t	172	291208	150684	40	66590	172	212	357798	150684	
2000 - 2499 t	176	391367	182535	32	72867	176	208	464234	182535	
2500 - 2999 t	118	316355	138253	32	67427	118	150	383782	138253	
3000 t and more	142	535782	228085	4	13340	142	146	549122	228085	
Not known	89	4201	27934	3	0	89	92	4201	27934	
total	1551	2300390	1125276	183	272002	1551	1734	2572392	1125276	

Table MO3 - INLAND FLEETS AT 31.12.2007 BY YEAR OF CONSTRUCTION

	Ordina	ry self-prop barges	pelled	Ord	linary bar	ges	Total capacity / dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Germany									
before 1930	218	212291	94752	25	10118		243	222409	94752
1930 - 1949	114	117483	54667	7	2444		121	119927	54667
1950 - 1959	197	201029	96816	12	7723		209	208752	96816
1960 - 1969	179	214225	90791	116	86489		295	300714	90791
1970 - 1979	113	190445	95186	132	193355		245	383800	95186
1980 - 1989	45	111759	49018	454	405183		499	516942	49018
1990 - 1999	9	17502	9903	96	132354		105	149856	9903
2000 - 2006	11	31053	13898	7	16198		18	47251	13898
not known	0	0	0	5	256		5	256	0
total	886	1095787	505031	854	854120	886	1740	1949907	505031
Austria (2004)									
before 1930							0	0	0
1930 - 1949							0	0	0
1950 - 1959							0	0	0
1960 - 1969							0	0	0
1970 - 1979							0	0	0
1980 - 1989							0	0	0
1990 - 1999							0	0	0
2000 - 2006							0	0	0
not known	5	7058		54	84807		59	91865	0
total	5	7058	0	54	84807		59	91865	0
Belgium									
before 1930	128	97598	45243	4	2883		132	100481	45243
1930 - 1949	120	84460	42909	4	2832		124	87292	42909
1950 - 1959	353	241755	127596	3	1058		356	242813	127596
1960 - 1969	384	277462	145005	33	42998		417	320460	145005
1970 - 1979	75	127261	60126	16	40414		91	167675	60126
1980 - 1989	40	82754	39452	<i>7</i> 2	211382		112	294136	39452
1990 - 1999	34	84399	41239	26	57075		60	141474	41239
2000 - 2006	59	157419	81988	70	102479		129	259898	81988
not known	0	0	0	0	0		0	0	0
total	1193	1153108	583558	228	461121	1193	1421	1614229	583558

	Ordina	ry self-prop barges	pelled	Ord	linary bar	ges	Total capacity / dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
France									
before 1930	30	21475	8583	10	6460		40	27935	8583
1930 - 1949	100	54397	19079	17	9389		117	63786	19079
1950 - 1959	373	189831	69398	47	31444		420	221275	69398
1960 - 1969	274	147260	58812	118	71026		392	218286	58812
1970 - 1979	12	8403	2100	40	47162		52	55565	2100
1980 - 1989	29	33919	14796	21	23755		50	57674	14796
1990 - 1999	5	7864	3643	90	156581		95	164445	3643
2000 - 2006	8	7780	1159	33	34836		41	42616	1159
not known	36	32997	1369	49	83296		85	116293	1369
total	867	503926	178939	425	463949		1292	967875	178939
Luxemburg									
before 1930	2	1754	1252	0	0		2	1754	1252
1930 - 1949	2	2441	1073	0	0		2	2441	1073
1950 - 1959	4	3754	1861	0	0		4	3754	1861
1960 - 1969	3	1864	1134	0	0		3	1864	1134
1970 - 1979	1	1587	707	0	0		1	1587	707
1980 - 1989	0	0	0	0	0		0	0	0
1990 - 1999	0	0	0	0	0		0	0	0
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	12	11400	6027	0	0		12	11400	6027
Netherlands									
before 1930	510	322618	150735	9	6518		519	329136	150735
1930 - 1949	269	201192	100308	8	4349		277	205541	100308
1950 - 1959	646	555712	280035	7	5976		653	561688	280035
1960 - 1969	864	756661	356388	173	131822		1037	888483	356388
1970 - 1979	225	342564	164984	157	264536		382	607100	164984
1980 - 1989	188	336519	149782	211	500103		399	836622	149782
1990 - 1999	109	254125	136273	106	266429		215	520554	136273
2000 - 2006	262	692895	264560	112	256780		374	949675	264560
not known	13	15267	1943	14	12267		27	27534	1943
total	3086	3477553	1605008	797	1448780		3883	4926333	1605008

	Ordina	ry self-prop barges	elled	Ord	inary bar	ges	Total capacity / dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Switzerland									
before 1930	1	308	147	0	0		1	308	147
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1969	0	0	0	0	0		0	0	0
1970 - 1979	2	1550	111 <i>7</i>	0	0		2	1550	1117
1980 - 1989	2	3563	1604	0	0		2	3563	1604
1990 - 1999	6	14339	6780	0	0		6	14339	6780
2000 - 2006	0	0	0	0	0		0	0	0
not known	4	10728	5634	1	1259		5	11987	5634
	1	0	0	0	0		1	0	0
total	16	30488	15282	1	1259		17	31747	15282
Hungary									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	1	902	382	0	0		1	902	382
1950 - 1959	2	1940	993	0	0		2	1940	993
1960 - 1969	1	<i>7</i> 689	589	0	0		1	7689	589
1970 - 1979	0	0	0	0	0		0	0	0
1980 - 1989	0	0	0	1	793		1	793	0
1990 - 1999	0	0	0	0	0		0	0	0
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	4	10531	1964	1	793		5	11324	1964
Slovakia		l .					•		
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1959	2	0	1030	0	0		2	0	1030
1960 - 1969	9	0	<i>7</i> 511	0	0		9	0	<i>7</i> 511
1970 - 1979	2	0	1442	12	0		14	0	1442
1980 - 1989	0	0	0	110	0		110	0	0
1990 - 1999	1	0	1030	9	0		10	0	1030
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	16	0		16	0	0
total	14	0	11013	147	0		161	0	11013

	Ordina	ry self-prop barges	elled	Ord	inary bar	ges	Total capacity / dry cargo fleet		
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Romania									
before 1930	6	5266	1427	1	1585		7	6851	1427
1930 - 1949	2	1580	405	0	0		2	1580	405
1950 - 1959	2	2015	1268	0	0		2	2015	1268
1960 - 1969	33	34644	530	9	10585		42	45229	530
1970 - 1979	32	51076	0	188	268651		220	319727	0
1980 - 1989	198	240755	150	303	587390		501	828145	150
1990 - 1999	13	12394	1206	100	204976		113	217370	1206
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	286	347730	4986	601	1073187		887	1420917	4986
Bulgaria									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1959	2	1117	1129	9	3510		11	4627	1129
1960 - 1969	1	1972	442	44	27119		45	29091	442
1970 - 1979	2	1823	1030	30	13394		32	15217	1030
1980 - 1989	9	6539	8050	45	20265		54	26804	8050
1990 - 1999	0	0	0	20	10605		20	10605	0
2000 - 2006	1	0	660	1	0		2	0	660
not known	0	0	0	3	0		3	0	0
total	15	11451	11311	152	74893		167	86344	11311
Czech Republic									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	1	632	287	2	170		3	802	287
1950 - 1959	5	2376	1792	6	2895		11	5271	1792
1960 - 1969	27	19014	9206	52	15293		79	34307	9206
1970 - 1979	26	30371	11858	40	14027		66	44398	11858
1980 - 1989	3	3385	2232	123	79779		126	83164	2232
1990 - 1999	6	5881	3323	19	10381		25	16262	3323
2000 - 2006	0	0	0	6	1444		6	1444	0
not known	0	0	0	1	0		1	0	0
total	68	61659	28698	249	123989		317	185648	28698

	Ordina	ry self-pro barges	pelled	Ord	linary bar	ges	Total capa	icity / dry o	argo fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Poland									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	10	9855	4360	0	0		10	9855	4360
1950 - 1959	92	51781	24391				92	51781	24391
1960 - 1969	0	0	0	33	17600		33	17600	0
1970 - 1979	4	2385	1226	206	103465		210	105850	1226
1980 - 1989	1	549	296	174	87556		175	88105	296
1990 - 1999	0	0	0	10	7297		10	7297	0
2000 - 2006	0	0	0	4	1201		4	1201	0
not known	0	0	0	0	0		0	0	0
total	107	64570	30273	427	217119		534	281689	30273
total									
before 1930	895	661310	302139	49	27564		944	688874	302139
1930 - 1949	619	472942	223470	38	19184		657	492126	223470
1950 - 1959	1678	1251310	606309	84	52606		1762	1303916	606309
1960 - 1969	1777	1462341	671525	578	402932		2355	1865273	671525
1970 - 1979	494	759478	340263	821	945004		1315	1704482	340263
1980 - 1989	519	830518	270556	1514	1916206		2033	2746724	270556
1990 - 1999	177	382165	196617	476	845698		653	1227863	196617
2000 - 2006	345	899875	367899	234	414197		579	1314072	367899
not known	55	55322	3312	142	180626		197	235948	3312
total	6559	6775261	2982090	3936	4804017		10495	11579278	2982090

	Self-prop	elled tanke	rbarges	Tai	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Germany									
before 1930	0	0	0	1	383		1	383	0
1930 - 1949	6	5428	3098	0	0		6	5428	3098
1950 - 1959	60	78521	39121	4	2688		64	81209	39121
1960 - 1969	65	84419	40989	5	5757		70	90176	40989
1970 - 1979	140	242644	123602	17	31238		157	273882	123602
1980 - 1989	40	79529	39719	16	10547		56	90076	39719
1990 - 1999	31	59810	34055	3	2021		34	61831	34055
2000 - 2006	35	68603	43653	0	0		35	68603	43653
not known	0	0	0	0	0		0	0	0
total	377	618954	324237	46	52634		423	671588	324237
Austria (2004)									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1959	0	0	0	0	0		0	0	C
1960 - 1969	0	0	0	0	0		0	0	0
1970 - 1979	0	0	0	0	0		0	0	C
1980 - 1989	0	0	0	0	0		0	0	C
1990 - 1999	0	0	0	0	0		0	0	C
2000 - 2006	0	0	0	0	0		0	0	C
not known	5	5601	0	15	22055		20	27656	C
total	5	5601	0	15	22055		20	27656	0
Belgium	l.	ı							
before 1930	16	3974	2562	0	0		16	3974	2562
1930 - 1949	13	4170	3139	0	0		13	4170	3139
1950 - 1959	44	35896	18911	0	0		44	35896	18911
1960 - 1969	52	44421	22155	2	2048		54	46469	22155
1970 - 1979	34	65398	29884	1	2923		35	68321	29884
1980 - 1989	24	52908	21402	2	4562		26	57470	21402
1990 - 1999	15	21303	11261	0	0		15	21303	11261
2000 - 2006	34	107080	45619	0	0		34	107080	45619
not known	0	0	0	0	0		0	0	0
total	232	335150	154933	5	9533		237	344683	154933

	Self-prop	elled tanke	rbarges	Tai	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
rance									
before 1930	1	382	0	0	0		1	382	
1930 - 1949	2	1841	595	0	0		2	1841	59
1950 - 1959	9	4897	1858	6	4434		15	9331	185
1960 - 1969	8	4175	2065	15	13224		23	17399	206
1970 - 1979	5	11613	1396	7	13214		12	24827	139
1980 - 1989	3	6906	4174	0	0		3	6906	417
1990 - 1999	0	0	0	6	11978		6	11978	
2000 - 2006	2	860	0	4	9819		6	10679	
not known	3	8916	0	6	12836		9	21752	
total	33	39590	10088	44	65505		77	105095	1008
uxemburg									
before 1930	0	0	0	0	0		0	0	
1930 - 1949	0	0	0	0	0		0	0	
1950 - 1959	2	3100	1603	0	0		2	3100	160
1960 - 1969	0	0	0	0	0		0	0	
1970 - 1979	7	9996	4615	0	0		7	9996	461
1980 - 1989	5	11635	5878	0	0		5	11635	587
1990 - 1999	2	3023	1742	0	0		2	3023	174
2000 - 2006	0	0	0	0	0		0	0	
not known	0	0	0	0	0		0	0	
total	16	27754	13838	0	0		16	27754	1383
letherlands	•								
before 1930	16	1745	1482	0	0		16	1745	148
1930 - 1949	22	5867	3813	0	0		22	5867	381
1950 - 1959	129	72442	39698	0	0		129	72442	3969
1960 - 1969	202	101334	57326	7	3207		209	104541	5732
1970 - 1979	96	123238	57911	14	27874		110	151112	5791
1980 - 1989	57	93655	52961	7	13749		64	107404	5296
1990 - 1999	77	141035	77376	8	19798		85	160833	7737
2000 - 2006	137	379490	187108	2	2934		139	382424	18710
not known	10	16584	277	1	677		11	17261	27
total	746	935390	477952	39	68239		785	1003629	47795

	Self-prop	elled tanke	rbarges	Tai	nker barg	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Switzerland									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1969	2	3559	2103	0	0		2	3559	2103
1970 - 1979	3	4135	1821	1	1970		4	6105	1821
1980 - 1989	9	20252	10321	0	0		9	20252	10321
1990 - 1999	13	33713	13325	0	0		13	33713	13325
2000 - 2006	10	21489	10824	0	0		10	21489	10824
not known	7	23489	9387	1	2073		8	25562	9387
	0	0	0	0	0		0	0	0
total	44	106637	47781	2	4043		46	110680	47781
Hungary									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1959	0	0	0	0	0		0	0	0
1960 - 1969	0	0	0	0	0		0	0	0
1970 - 1979	2	1167	0	1	1235		3	2402	0
1980 - 1989	0	0	0	0	0		0	0	0
1990 - 1999	0	0	0	0	0		0	0	0
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	2	1167	0	1	1235		3	2402	0
Slovakia								'	
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	1	0		1	0	0
1950 - 1959	0	0	0	1	0		1	0	0
1960 - 1969	3	0	2041	2	0		5	0	2041
1970 - 1979	0	0	0	22	0		22	0	0
1980 - 1989	0	0	0	0	0		0	0	0
1990 - 1999	0	0	0	4	0		4	0	0
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	3	0	2041	30	0		33	0	2041

	Self-prop	elled tanke	rbarges	Tai	nker barge	es	Total cap	acity of tan	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Romania									
before 1930	0	0	0	0	0		0	0	
1930 - 1949	0	0	0	0	0		0	0	
1950 - 1959	0	0	0	0	0		0	0	
1960 - 1969	0	0	0	0	0		0	0	
1970 - 1979	1	2496	883	0	0		1	2496	88
1980 - 1989	0	0	0	0	0		0	0	
1990 - 1999	8	15544	0	0	0		8	15544	
2000 - 2006	0	0	0	0	0		0	0	
not known	0	0	0	0	0		0	0	
total	9	18040	883	0	0		9	18040	88
Bulgaria									
before 1930	0	0	0	0	0		0	0	
1930 - 1949	0	0	0	0	0		0	0	
1950 - 1959	0	0	0	0	0		0	0	
1960 - 1969	0	0	0	0	0		0	0	
1970 - 1979	0	0	0	0	0		0	0	
1980 - 1989	0	0	0	0	0		0	0	
1990 - 1999	0	0	0	0	0		0	0	
2000 - 2006	0	0	0	0	0		0	0	
not known	0	0	0	0	0		0	0	
total	0	0	0	0	0		0	0	
zech Republic			l l		l l		l .		
before 1930	0	0	0	0	0		0	0	
1930 - 1949	0	0	0	0	0		0	0	
1950 - 1959	0	0	0	0	0		0	0	
1960 - 1969	0	0	0	0	0		0	0	
1970 - 1979	1	0	0	0	0		1	0	
1980 - 1989	0	0	0	0	0		0	0	
1990 - 1999	0	0	0	0	0		0	0	
2000 - 2006	0	0	0	0	0		0	0	
not known	0	0	0	0	0		0	0	
total	1	0	0	0	0		1	0	

	Self-prop	elled tanke	rbarges	Tai	nker barg	es	Total cap	acity of tar	ker fleet
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Poland									
before 1930	0	0	0	0	0		0	0	0
1930 - 1949	0	0	0	0	0		0	0	0
1950 - 1959	0	0	0	0	0		0	0	0
1960 - 1969	0	0	0	0	0		0	0	0
1970 - 1979	0	0	0	0	0		0	0	0
1980 - 1989	0	0	0	0	0		0	0	0
1990 - 1999	0	0	0	0	0		0	0	0
2000 - 2006	0	0	0	0	0		0	0	0
not known	0	0	0	0	0		0	0	0
total	0	0	0	0	0		0	0	0
Total									
before 1930	33	6101	4044	1	383	0	34	6484	4044
1930 - 1949	43	17306	10645	1	0	0	44	17306	10645
1950 - 1959	246	198415	103294	11	7122	0	257	205537	103294
1960 - 1969	333	238484	126397	32	26206	0	365	264690	126397
1970 - 1979	295	476804	228612	62	76484	0	357	553288	228612
1980 - 1989	142	278346	137459	25	28858	0	167	307204	137459
1990 - 1999	143	262204	135258	21	33797	0	164	296001	135258
2000 - 2006	215	579522	285767	7	14826	0	222	594348	285767
not known	18	31101	277	22	35568	0	40	66669	277
total	1468	2088283	1031753	182	223244	0	1650	2311527	1031753

		Tugs		P	usher tug:	5	Total p	propelled v	essels
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Germany									
before 1930	40		9071	19		4675	59		13746
1930 - 1949	26		4351	23		8580	49		12931
1950 - 1959	31		6263	17		4556	48		10819
1960 - 1969	24		3957	84		28853	108		32810
1970 - 1979	13		2428	57		58591	70		61019
1980 - 1989	2		705	84		31068	86		31773
1990 - 1999	2		883	6		2390	8		3273
2000 - 2006	0		0	1		213	1		213
not known	1		110	1		59	2		169
total	139		27768	292		138985	431		166753
Austria (2004)									
before 1930	0		0	0		0	0		0
1930 - 1949	0		0	0		0	0		C
1950 - 1959	0		0	0		0	0		C
1960 - 1969	0		0	0		0	0		C
1970 - 1979	0		0	0		0	0		C
1980 - 1989	0		0	0		0	0		C
1990 - 1999	0		0	0		0	0		C
2000 - 2006	0		0	0		0	0		C
not known	0		0	10		9200	10		9200
total	0		0	10		9200	10		9200
Belgium									
before 1930	2		501	18		5371	20		5872
1930 - 1949	3		220	25		7399	28		7619
1950 - 1959	6		1159	20		6518	26		7677
1960 - 1969	4		1154	16		9135	20		10289
1970 - 1979	5		2464	20		10652	25		13115
1980 - 1989	2		196	7		3444	9		3641
1990 - 1999	1		374	8		5292	9		5666
2000 - 2006	0		0	4		5844	4		5844
not known	0		0	0		0	0		0
total	23		6068	118		53655	141		59723

		Tugs		Р	usher tugs	;	Total	propelled v	essels
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
France (#)									
before 1930	0		0	0		0	0		
1930 - 1949	0		0	0		0	0		
1950 - 1959	0		0	0		0	0		
1960 - 1969	0		0	0		0	0		
1970 - 1979	0		0	0		0	0		
1980 - 1989	0		0	0		0	0		
1990 - 1999	0		0	0		0	0		
2000 - 2006	0		0	0		0	0		
not known	0		0	0		0	0		
total	0		0	0		0	0		
(#)France : data about t	he tugs and p	usher tugs fro	m decembre	e, 31th 2003	3				
Luxemburg									
before 1930	0		0	0		0	0		
1930 - 1949	0		0	0		0	0		
1950 - 1959	0		0	0		0	0		
1960 - 1969	0		0	0		0	0		
1970 - 1979	0		0	0		0	0		
1980 - 1989	0		0	0		0	0		
1990 - 1999	0		0	0		0	0		
2000 - 2006	0		0	0		0	0		
not known	0		0	0		0	0		
total	0		0	0		0	0		
Netherlands		'	'			'			
before 1930	11		4728	155		23916	166		2864
1930 - 1949	18		7742	201		43069	219		5081
1950 - 1959	9		3748	185		46679	194		5042
1960 - 1969	27		12990	128		30090	155		4308
1970 - 1979	30		22014	71		28648	101		5066
1980 - 1989	25		25642	37		18167	62		4380
1990 - 1999	5		11517	11		4044	16		1556
2000 - 2006	1		1350	5		774	6		212
not known	0		0	9		1816	9		181
total	126		89731	802		197203	928		28693

		Tugs		Р	usher tugs	5	Total	propelled v	essels
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Switzerland									
before 1930	0		0	0		0	0		(
1930 - 1949	1		353	1		368	2		721
1950 - 1969	0		0	1		728	1		728
1970 - 1979	0		0	2		302	2		30:
1980 - 1989	0		0	0		0	0		(
1990 - 1999	0		0	0		0	0		(
2000 - 2006	0		0	0		0	0		(
not known	0		0	0		0	0		(
	0		0	0		0	0		(
total	1		353	4		1398	5		175
Hungary									
before 1930	0		0	0		0	0		(
1930 - 1949	0		0	0		0	0		(
1950 - 1959	0		0	0		0	0		(
1960 - 1969	0		0	0		0	0		(
1970 - 1979	0		0	0		0	0		(
1980 - 1989	0		0	0		0	0		(
1990 - 1999	0		0	0		0	0		(
2000 - 2006	0		0	0		0	0		(
not known	0		0	0		0	0		
total	0		0	0		0	0		
Slovakia						,			
before 1930	0		0	0		0	0		(
1930 - 1949	0		0	0		0	0		(
1950 - 1959	0		0	0		0	0		(
1960 - 1969	0		0	4		5444	4		544
1970 - 1979	0		0	11		9910	11		991
1980 - 1989	0		0	1 <i>7</i>		18186	1 <i>7</i>		1818
1990 - 1999	0		0	4		7030	4		703
2000 - 2006	0		0	0		0	0		(
not known	0		0	0		0	0		(
total	0		0	36		40570	36		40570

		Tugs		P	usher tug:	5	Total	propelled v	essels
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Romania									
before 1930	0		0	0		0	0		0
1930 - 1949	2		0	1		0	3		0
1950 - 1959	3		0	0		0	3		0
1960 - 1969	15		5232	4		3127	19		8359
1970 - 1979	14		1058	7		2106	21		3164
1980 - 1989	10		8013	18		0	28		8013
1990 - 1999	1		0	1		1764	2		1764
2000 - 2006	0		0	0		0	0		0
not known	0		0	0		0	0		0
total	45		14303	31		6997	76		21300
Bulgaria	,								
before 1930	1		0	0		0	1		0
1930 - 1949	2		426	0		0	2		426
1950 - 1959	3		1792	0		0	3		1792
1960 - 1969	12		4482	3		1514	15		5996
1970 - 1979	6		2024	12		11738	18		13762
1980 - 1989	1		2206	6		7550	7		9756
1990 - 1999	0		0	3		7281	3		7281
2000 - 2006	0		0	0		0	0		0
not known	1		0	0		0	1		0
total	26		10930	24		28083	50		39013
Czech Republic	,								
before 1930	1		99	0		0	1		99
1930 - 1949	3		488	0		0	3		488
1950 - 1959	6		1269	0		0	6		1269
1960 - 1969	8		1211	8		385	16		1596
1970 - 1979	15		1419	32		3141	47		4560
1980 - 1989	17		2567	76		9226	93		11793
1990 - 1999	0		0	6		1099	6		1099
2000 - 2006	1		192	0		0	1		192
not known	0		0	1		21	1		21
total	51		7245	123		13872	174		21117

		Tugs		Р	usher tug	s	Total	propelled v	essels/
	Units	Tonnage	Power	Units	Tonnage	Power	Units	Tonnage	Power
	Nbre	t	kW	Nbre	t	kW	Nbre	t	kW
Poland									
before 1930	0		0	0		0	0		0
1930 - 1949	0		0	0		0	0		0
1950 - 1959	0		0	0		0	0		0
1960 - 1969	0		0	0		0	0		0
1970 - 1979	0		0	0		0	0		0
1980 - 1989	0		0	0		0	0		0
1990 - 1999	0		0	0		0	0		0
2000 - 2006	0		0	0		0	0		0
not known	0		0	0		0	0		0
total	0		0	0		0	0		0
Total									
before 1930	55		14399	192		33962	247		48361
1930 - 1949	55		13580	251		59416	306		72996
1950 - 1959	58		14231	223		58481	281		72712
1960 - 1969	90		29026	249		78850	339		107876
1970 - 1979	83		31407	210		124786	293		156193
1980 - 1989	57		39329	245		87641	302		126971
1990 - 1999	9		12774	39		28900	48		41674
2000 - 2006	2		1542	10		6831	12		8373
not known	2		110	21		11096	23		11206
total	411		156398	1440		489963	1851		646361

Table MO4: NEW BUILDINGS AT DECEMBER 2008

Type of vessel	20	02	20	003	20	04	20	05
	nbr	Т	nbr	т	nbr	Т	nbr	Т
ordinary self-propelled barges	45	113114	34	89676	28	<i>7</i> 1326	34	87645
ordinary barges	29	37180	28	78156	14	23636	12	11401
total	74	150294	62	167832	42	94962	46	99046
Self-propelled tankerbarges	22	65548	45	131455	54	139718	46	130860
Tanker barges	2	178	1	1800	3	2427	2	2527
total	24	65726	46	133255	57	142145	48	133387
tugs	1 <i>7</i>		10		5		5	
Pusher tugs	9		1		1		5	
	26		11		6		10	
	number	kW	number	kW	number	kW	number	kW
Cruise vessels	2	1276	0	0	1	992	0	0
Excursion vessels	3	11670	1	279	1	177	0	0
total	5	12946	1	279	2	1169	0	0

	20	06	20	007	20	U8	total 2002 - 2008		
Type of vessel	20		20	,07	20		10101 200	JZ - 2000	
	nbr	Т	nbr	т	nbr	Т	nbr	т	
ordinary self-propelled barges	41	124116	74	254030	23	79084	279	818991	
ordinary barges	25	37735	34	94224	27	65223	169	347555	
total	66	161851	108	348254	50	144307	448	1166546	
Self-propelled tankerbarges	35	102352	31	78734	16	57734	249	<i>7</i> 06401	
Tanker barges	0	0	0	0	0	0	8	6932	
total	28	77565	31	78734	16	57734	257	713333	
tugs	4	1644	4		4	8520	49	10164	
Pusher tugs	2	1959	3		0	0	21	1959	
	6		7		4	8520	70	12123	
	number	kW	number	kW	number	kW	number	kW	
Cruise vessels	0	0	5	7780	0	0	8	10048	
Excursion vessels	0	0			0	0	5	12126	
total	0	0	1	0	0	0	13	22174	

source: IVR and secretariat of the CCNR

Table MO5 - NATIONAL TRANSPORT OF GOODS ON INLAND WATERWAYS, BY STATE

		Vol	umes carri	ied		Services		Differenc	e 06 / 07
N°	Country	2005	2006	2007	2005	0007	2007	1000	. TICLA
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
			1000 t		10	00000 TI	(M		%
	Switzerland	N	ala al ara tara			L			
0	Agricultural products	Not recor	aea as tra	nsported v	rolumes on	ly concerr	transport	on lakes	
1	Foodstuffs, animal fodder								
2	Solid mineral fuels								
3	Oil and oil-based products								
4	Ore and pig iron for iron and steel industry								
5	Iron and steel products								
6	Crude and manufactured minerals, building materials								
7	Fertilisers								
8	Chemicals								
9	Machinery, transport equipment, manufactured articles								
	Germany	56663	57156	59150	11695	11231	11798	3,49%	5,05%
0	Agricultural products	2554	2348	2458	838	728	805	4,69%	10,64%
1	Foodstuffs, animal fodder	3441	3565	3940	1014	974	1093	10,51%	12,25%
2	Solid mineral fuels	<i>757</i> 1	7324	6624	1126	1057	1057	-9,56%	0,04%
3	Oil and oil-based products	14770	14245	14336	2750	2537	2547	0,64%	0,38%
4	Ore and pig iron for iron and steel industry	3115	3065	4253	810	725	836	38,76%	15,27%
5	Iron and steel products	1505	1385	1522	616	538	558	9,89%	3,74%
6	Crude and manufactured minerals, building materials	15657	17397	1 <i>75</i> 01	2944	3013	3124	0,60%	3,69%
7	Fertilisers	1044	1012	1040	403	395	402	2,73%	1,71%
8	Chemicals	5262	5297	5912	873	998	1122	11,60%	12,47%
9	Machinery, transport equipment, manufactured articles	1744	1518	1565	321	266	253	3,11%	-4,78%
	Austria	356	1137	972	36	137	146	-14,50%	6,37%
0	Agricultural products	9	4	2	2	1	0	-49,90%	-62,33%
1	Foodstuffs, animal fodder	2	0	0	0	0	0		
2	Solid mineral fuels	0	1	2	0	0	0	55,60%	
3	Oil and oil-based products	136	601	572	23	125	121	-4,85%	-3,02%
4	Ore and pig iron for iron and steel industry	1	0	0	0	0	0		
5	Iron and steel products	85	91	113	10	11	14	24,13%	28,37%
6	Crude and manufactured minerals, building materials	111	439	283	0	0	10	-35,57%	
7	Fertilisers	11	1	1	1	0	0	-50,00%	
8	Chemicals	0	0	0	0	0	0		
9	Machinery, transport equipment, manufactured articles	1	0	0	0	0	0		

		Vol	umes carrie	d		Services		Difference	e 06 / 07
N°	Country								
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
	0 / 0		1000 t	l .	10	D00000 TK	I M	9	K
	Polaium	35409 37543 (*)		3060 3169 (*)					
0	Belgium Agricultural products	520	537	(1)	53	56	(1)		
1	Foodstuffs, animal fodder	1013	1286		58	74			
2	Solid mineral fuels	4241	3742		449	409			
3	Oil and oil-based products	7453	7478		550	550			
	Ore and pig iron for iron and steel								
4	industry	1504	1728		164	181			
5	Iron and steel products	1282	2192		99	202			
6	Crude and manufactured minerals, building materials	11678	12224		1182	1153			
7	Fertilisers	1649	1585		102	104			
8	Chemicals	2218	2315		188	197			
9	Machinery, transport equipment, manufactured articles	3851	4456		215	243			
	Bulgaria	1876	2000	2203	67	64	(*)		
0	Agricultural products	1	0		0	0			
1	Foodstuffs, animal fodder	0	0		0	0			
2	Solid mineral fuels	17	39	7	3	6			
3	Oil and oil-based products	0	0	17	0	0			
4	Ore and pig iron for iron and steel industry	0	0		0	0			
5	Iron and steel products	0	0	2	0	0			
6	Crude and manufactured minerals, building materials	1855	1961	2176	64	58			
7	Fertilisers	0	0		0	0			
8	Chemicals	0	0		0	0			
9	Machinery, transport equipment, manufactured articles	3	0	0	0	0			
	France	28936	30555	(*)	4640	4645	(*)		
0	Agricultural products	2981	2753		811	725			
1	Foodstuffs, animal fodder	461	562		130	140			
2	Solid mineral fuels	1809	1557		539	497			
3	Oil and oil-based products	3274	3988		358	447			
4	Ore and pig iron for iron and steel industry	161	180		42	48			
5	Iron and steel products	246	273		59	68			
6	Crude and manufactured minerals, building materials	17066	18127		1980	1954			
7	Fertilisers	84	107		23	32			
8	Chemicals	1035	963		260	252			
9	Fahrzeuge, Maschinen, Halb-/ Fertigwaren.	1819	2045		438	482			

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Volu	ımes carrie	d		Services		Difference 06 / 07			
N°	Country								. =161.1		
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM		
			1000 t		10	000000 TK	M	C	%		
	Luxemburg	0	0	0	0	0	0				
0	Agricultural products	0	0	0	0	0	0				
1	Foodstuffs, animal fodder	0	0	0	0	0	0				
2	Solid mineral fuels	0	0	0	0	0	0				
3	Oil and oil-based products	0	0	0	0	0	0				
4	Ore and pig iron for iron and steel industry	0	0	0	0	0	0				
5	Iron and steel products	0	0	0	0	0	0				
6	Crude and manufactured minerals, building materials	0	0	0	0	0	0				
7	Fertilisers	0	0	0	0	0	0				
8	Chemicals	0	0	0	0	0	0				
9	Machinery, transport equipment, manufactured articles	0	0	0	0	0	0				
	Hungary	54	80	(*)	6	8	(*)				
0	Agricultural products	1	4		0	0					
1	Foodstuffs, animal fodder	0	0		0	0					
2	Solid mineral fuels	0	0		0	0					
3	Oil and oil-based products	29	22		4	3					
4	Ore and pig iron for iron and steel industry	0	0		0	0					
5	Iron and steel products	0	2		0	0					
6	Crude and manufactured minerals, building materials	12	40		1	4					
7	Fertilisers	0	0		0	0					
8	Chemicals	0	0		0	0					
9	Machinery, transport equipment, manufactured articles	12	12		1	1					
	Netherlands	92007	90182	(*)	10425	10060	(*)				
0	Agricultural products	1298	1370		176	187					
1	Foodstuffs, animal fodder	681 <i>7</i>	6364		898	841					
2	Solid mineral fuels	2732	2721		412	402					
3	Oil and oil-based products	19407	19702		2300	2264					
4	Ore and pig iron for iron and steel industry	1619	1425		240	219					
5	Iron and steel products	1064	1271		1 <i>57</i>	189					
6	Crude and manufactured minerals, building materials	41433	38681		3953	3626					
7	Fertilisers	1271	1049		258	217					
8	Chemicals	5512	4994		736	664					
9	Machinery, transport equipment, manufactured articles	10854	12605		1295	1451					

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Vo	lumes carri	ed		Services		Difference	e 06 / 07
N°	Country	,,,				00.71000		5	00, 0
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
			1000 t	l	1	000000 TK	I	c	/ %
	Poland	4466	4460	(*)	185	184	(*)		
0	Agricultural products	5	2	()	0	0	()		
1	Foodstuffs, animal fodder	5	14		0	1			
2	Solid mineral fuels	682	728		121	126			
3	Oil and oil-based products	62	15		1	0			
4	Ore and pig iron for iron and steel industry	261	106		12	1			
5	Iron and steel products	71	40		6	4			
6	Crude and manufactured minerals, building materials	3004	3207		34	41			
7	Fertilisers	52	74		1	2			
8	Chemicals	276	255		4	4			
9	Machinery, transport equipment, manufactured articles	48	19		6	5			
	Czech Republic	685	418	630	30	15	(*)	50,82%	-100,00%
0	Agricultural products	21	1	0	1	0			
1	Foodstuffs, animal fodder	0	1	0	0	0		-73,50%	
2	Solid mineral fuels	0	0	0	0	0			
3	Oil and oil-based products	0	0	0	0	0			
4	Ore and pig iron for iron and steel industry	1	0	0	1	0			
5	Iron and steel products	0	0	0	0	0			
6	Crude and manufactured minerals, building materials	643	414	630	28	15		52,15%	-95,55%
7	Fertilisers	14	1	0	0	0			
8	Chemicals	0	1	0	0	0			
9	Machinery, transport equipment, manufactured articles	6	0	0	0	0			
	Romania	27335	23552	22829	5117	4881	4355	-3,07%	-10,77%
0	Agricultural products	575	653	351	0	200	90	-46,25%	-100,00%
1	Foodstuffs, animal fodder	104	203	431	33	74	139	112,07%	87,52%
2	Solid mineral fuels	1837	2371	2852	357	479	578	20,30%	20,67%
3	Oil and oil-based products	23	9	40	5	7	22	344,64%	214,50%
4	Ore and pig iron for iron and steel industry	13119	9817	7129	3306	2716	1643	-27,38%	-39,51%
5	Iron and steel products	1862	1 <i>5</i> 3 <i>7</i>	1675	438	428	359	8,98%	-16,04%
6	Crude and manufactured minerals, building materials	9332	8580	9308	822	829	1166	8,49%	40,59%
7	Fertilisers	434	287	644	142	109	224	124,53%	105,64%
8	Chemicals	32	59	263	8	23	98	346,46%	325,46%
9	Machinery, transport equipment, manufactured articles	17	36	134	6	16	37	273,08%	129,18%

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Vo	umes carrie	ed		Services		Difference	06 / 07		
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM		
NST	Category of good	2003	2000	2007	2003	2000	2007	10001	11110 110741		
			1000 t		100	1000000 TKM			%		
	Slovakia	103	94	239	5	3	4	154,30%	34,04%		
0	Agricultural products	9	4	0	0	0	0	-91,93%			
1	Foodstuffs, animal fodder	0	0	0	0	0	0				
2	Solid mineral fuels	0	0	0	0	0	0				
3	Oil and oil-based products	0	0	0	0	0	0				
4	Ore and pig iron for iron and steel industry	0	0	0	0	0	0				
5	Iron and steel products	0	0	0	0	0	0				
6	Crude and manufactured minerals, building materials	94	90	239	5	3	4	165,14%	32,51%		
7	Fertilisers	0	0	0	0	0	0				
8	Chemicals	0	0	0	0	0	0				
9	Machinery, transport equipment, manufactured articles	0	0	0	0	0	0				
	Croatia	195	189	163	39	39	31	-13,88%	-19,43%		
0	Agricultural products	9	4	0	0	0	0				
1	Foodstuffs, animal fodder	0	0	0	0	0	0				
2	Solid mineral fuels	0	0	0	0	0	0				
3	Oil and oil-based products	173	1 <i>7</i> 0	139	38	38	31	-18,07%	-18,40%		
4	Ore and pig iron for iron and steel industry	0	0	0	0	0	0				
5	Iron and steel products	0	0	0	0	0	0				
6	Crude and manufactured minerals, building materials	13	15	23	1	1	0	56,60%	-58,88%		
7	Fertilisers	0	0	0	0	0	0				
8	Chemicals	0	0	0	0	0	0				
9	Machinery, transport equipment, manufactured articles	0	0	0	0	0	0				
	Total Europe 27	247888	247178	(**)	35465	34396	(**)				
0	Agricultural products	7975	7678		2078	1898					
1	Foodstuffs, animal fodder	11843	11994		2133	2103					
2	Solid mineral fuels	18890	18483		3007	2978					
3	Oil and oil-based products	45154	46058		5992	5932					
4	Ore and pig iron for iron and steel industry	19780	16322		4575	3888					
5	Iron and steel products	6113	6790		1386	1441					
6	Crude and manufactured minerals, building materials	100885	101160		11012	10696					
7	Fertilisers	4559	4116		931	858					
8	Chemicals	14335	13885		2068	2139					
9	Machinery, transport equipment, manufactured articles	18354	20692		2283	2463					

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007 (**) At present, these data cannot be calculated because of the transition to the new codification

Table MO6 - INTERNATIONAL TRANSPORT OF GOODS ON INLAND WATERWAYS, BY STATE

		Vo	lumes carri	ed		Services		Difference	06 / 07
N°	Country								
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
			1000 t		10	00000 TH	<m< td=""><td>%</td><td>)</td></m<>	%)
	Switzerland	7259	6750	7106	57	53	56	5,27%	6,49%
0	Agricultural products	221	299	384	2	3	4	28,43%	48,15%
1	Foodstuffs, animal fodder	404	418	543	3	3	5	29,90%	61,81%
2	Solid mineral fuels	98	145	222	1	1	2	53,10%	36,05%
3	Oil and oil-based products	3607	3028	2816	29	24	23	-7,00%	-5,58%
4	Ore and pig iron for iron and steel	107	157	112	1	1	1	-28,66%	-31,97%
5	Iron and steel products	753	862	992	6	6	6	15,08%	-5,66%
6	Crude and manufactured minerals, building materials	552	454	508	4	3	3	11,89%	-8,81%
7	Fertilisers	185	161	171	2	2	2	6,21%	14,94%
8	Chemicals	899	774	857	7	6	7	10,72%	16,28%
9	Machinery, transport equipment, manufactured articles	433	452	501	2	2	3	10,84%	43,69%
	Germany	180103	186339	189824	52401	52745	52918	1,87%	0,33%
0	Agricultural products	8653	8442	8013	4442	4446	4177	-5,08%	-6,06%
1	Foodstuffs, animal fodder	12334	11076	11310	521 <i>7</i>	4253	4517	2,11%	6,20%
2	Solid mineral fuels	26134	28685	29686	7439	7605	7463	3,49%	-1,87%
3	Oil and oil-based products	24055	24894	211 <i>57</i>	7909	8065	6669	-15,01%	-17,31%
4	Ore and pig iron for iron and steel industry	32731	32899	33621	5491	5440	5630	2,19%	3,49%
5	Iron and steel products	11705	12444	14338	3320	3506	4161	15,22%	18,68%
6	Crude and manufactured minerals, building materials	28535	32352	33777	7274	8261	8561	4,40%	3,63%
7	Fertilisers	5067	4759	4691	2189	2032	2025	-1,42%	-0,34%
8	Chemicals	14725	14788	16005	4047	4223	4482	8,23%	6,13%
9	Machinery, transport equipment, manufactured articles	16164	16000	17227	5073	4914	5234	7,67%	6,52%
	Austria	8980	8046	12000	1715	1700	2451	49,14%	44,17%
0	Agricultural products	937	880	1395	197	232	410	58,50%	76,76%
1	Foodstuffs, animal fodder	887	707	971	221	177	252	37,36%	42,52%
2	Solid mineral fuels	177	151	273	30	33	55	81,09%	65,44%
3	Oil and oil-based products	1866	1021	1848	253	136	241	81,01%	77,22%
4	Ore and pig iron for iron and steel industry	3040	2841	3438	631	601	734	21,01%	22,09%
5	Iron and steel products	491	803	1199	93	190	299	49,32%	57,30%
6	Crude and manufactured minerals, building materials	524	493	1486	87	79	111	201,38%	40,86%
7	Fertilisers	874	916	921	146	1 <i>7</i> 6	190	0,57%	7,68%
8	Chemicals	62	35	<i>7</i> 1	1 <i>7</i>	10	18	101,47%	78,99%
9	Machinery, transport equipment, manufactured articles	122	199	398	40	66	142	99,90%	114,58%

		Vol	umes carrie	d		Services		Difference 06 / 07		
N°	Country									
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM	
			1000 t		100	00000 TK	М	9,	%	
	Belgium	124988	128312	(*)	5506	5740	(*)			
0	Agricultural products	4533	5082		395	458				
1	Foodstuffs, animal fodder	4696	4470		214	215				
2	Solid mineral fuels	9187	8870		462	481				
3	Oil and oil-based products	20862	20935		602	592				
4	Ore and pig iron for iron and steel industry	8105	6756		506	442				
5	Iron and steel products	<i>7</i> 901	7946		382	454				
6	Crude and manufactured minerals, building materials	28776	30774		1749	1843				
7	Fertilisers	4450	4662		359	372				
8	Chemicals	12662	13824		384	405				
9	Machinery, transport equipment, manufactured articles	23816	24993		453	478				
	Bulgaria	3395	3947	4420	690	721	947	11,97%	31,38%	
0	Agricultural products	144	235	251	17	6	43	6,85%	612,15%	
1	Foodstuffs, animal fodder	118	149	140	5	8	12	-6,33%	44,93%	
2	Solid mineral fuels	1426	1376	1774	318	285	386	28,91%	35,34%	
3	Oil and oil-based products	114	260	397	5	35	74	52,69%	110,96%	
4	Ore and pig iron for iron and steel industry	598	563	686	199	182	235	21,81%	29,14%	
5	Iron and steel products	648	828	763	96	131	131	-7,85%	-0,34%	
6	Crude and manufactured minerals, building materials	99	355	294	19	54		-17,27%	-24,40%	
7	Fertilisers	19	18	24	3	3	5	33,44%	55,72%	
8	Chemicals	32	12	54	7	1	10	345,99%	908,85%	
9	Machinery, transport equipment, manufactured articles	197	151	38	21	16	12	-74,86%	-23,73%	
	France	39411	40893	(*)	4266	4360	(*)			
0	Agricultural products	5946	6412		780	821				
1	Foodstuffs, animal fodder	2823	2892		363	357				
2	Solid mineral fuels	4301	4657		257	299				
3	Oil and oil-based products	6440	5361		<i>7</i> 53	620				
4	Ore and pig iron for iron and steel industry	2350	2620		219	243				
5	Iron and steel products	2585	2984		378	432				
6	Crude and manufactured minerals, building materials	8859	9892		740	824				
7	Fertilisers	1371	1221		193	170				
8	Chemicals	1941	2019		255	269				
9	Machinery, transport equipment, manufactured articles	2795	2835		328	325				

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Vol	umes carried	4		Services		Difference	06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
NST	Category of good	2003	2000	2007	2003	2000	2007	10001	IIIIO TRIVI
			1000 t		100	00000 TKM	١	%	
	Luxemburg	10377	11395	(*)	342	381	(*)		
0	Agricultural products	1776	2057		66	77			
1	Foodstuffs, animal fodder	784	1024		29	38			
2	Solid mineral fuels	3718	3994		138	147			
3	Oil and oil-based products	547	562		3	4			
4	Ore and pig iron for iron and steel industry	1307	1609		42	48			
5	Iron and steel products	826	946		27	31			
6	Crude and manufactured minerals, building materials	1008	870		25	26			
7	Fertilisers	318	250		9	7			
8	Chemicals	81	73		3	3			
9	Machinery, transport equipment, manufactured articles	12	10		0	0			
	Hungary	8359	7247	(*)	2105	1905	(*)		
0	Agricultural products	1986	1853		339	333			
1	Foodstuffs, animal fodder	1243	724		268	161			
2	Solid mineral fuels	328	272		90	81			
3	Oil and oil-based products	1251	834		200	121			
4	Ore and pig iron for iron and steel industry	1568	1326		583	495			
5	Iron and steel products	899	1143		276	359			
6	Crude and manufactured minerals, building materials	229	287		69	98			
7	Fertilisers	333	341		98	96			
8	Chemicals	119	133		44	50			
9	Machinery, transport equipment, manufactured articles	403	334		138	111			
	Netherlands	225631	227671	(*)	31799	32250	(*)	_	
0	Agricultural products	6315	6385		929	952			
- 1	Foodstuffs, animal fodder	12193	11643		1895	1806			
2	Solid mineral fuels	24915	25936		3589	3718			
3	Oil and oil-based products	37492	38293		4951	5008			
4	Ore and pig iron for iron and steel industry	35194	34272		4706	4617			
5	Iron and steel products	10988	10653		1808	1 <i>7</i> 69			
6	Crude and manufactured minerals, building materials	35640	37504		4995	5264			
7	Fertilisers	4695	4559		846	809			
8	Chemicals	22091	22644		3340	3403			
9	Machinery, transport equipment, manufactured articles	36108	35782		4740	4904			

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Vo	lumes carri	ed		Services		Difference	e 06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
NST	Category of good	2003	2000	2007	2003	2000	2007	10001	IIIIO TRIVI
			1000 t		100	00000 TKA	М	Ġ,	%
	Poland	2701	2148	(*)	141	105	(*)		
0	Agricultural products	41	51		2	3			
1	Foodstuffs, animal fodder	123	29		7	2			
2	Solid mineral fuels	1092	1055		62	52			
3	Oil and oil-based products	0	0		0	0			
4	Ore and pig iron for iron and steel industry	274	261		14	13			
5	Iron and steel products	497	302		30	16			
6	Crude and manufactured minerals, building materials	329	182		8	4			
7	Fertilisers	289	197		14	10			
8	Chemicals	47	48		2	2			
9	Machinery, transport equipment, manufactured articles	9	23		2	3			
	Czech Republic	929	721	511	34	29	19	-29,19%	-33,60%
0	Agricultural products	307	232	92	11	8	3	-60,47%	-65,45%
1	Foodstuffs, animal fodder	354	241	249	10	8	7	3,49%	-9,24%
2	Solid mineral fuels	10	0	0	0	0	0		
3	Oil and oil-based products	0	0	0	0	0	0		
4	Ore and pig iron for iron and steel industry	13	16	27	1	1	1	66,08%	8,76%
5	Iron and steel products	18	33	16	0	1	0	-52,86%	-60,60%
6	Crude and manufactured minerals, building materials	66	65	38	3	3	2	-40,81%	-35,90%
7	Fertilisers	91	71	46	5	4	3	-34,79%	-30,90%
8	Chemicals	44	31	14	2	2	1	-55,79%	-58,10%
9	Machinery, transport equipment, manufactured articles	26	32	29	2	2	2	-10,08%	11,18%
	Romania	5510	5721	6597	3121	3277	3840	15,31%	17,17%
0	Agricultural products	2155	2681	1912	1676	2087	1422	-28,69%	-31,85%
1	Foodstuffs, animal fodder	58	20	61	37	11	34	203,77%	210,37%
2	Solid mineral fuels	1151	<i>7</i> 61	1177	333	216	388	54,70%	79,79%
3	Oil and oil-based products	122	203	303	34	44	72	49,23%	62,71%
4	Ore and pig iron for iron and steel industry	1035	1152	1387	446	439	970	20,42%	120,93%
5	Iron and steel products	382	219	582	291	126	449	165,74%	256,39%
6	Crude and manufactured minerals, building materials	265	359	776	89	134	237	116,07%	77,17%
7	Fertilisers	199	237	305	13 <i>7</i>	163	210	28,84%	28,62%
8	Chemicals	8	8	1	5	1	1	-90,30%	-35,13%
9	Machinery, transport equipment, manufactured articles	135	81	93	73	56	56	14,60%	0,83%

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Vo	lumes carrie	ed		Services		Difference	e 06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
NST	Category of good	2003	2000	2007	2003	2008	2007	10001	IIIIO IKWI
			1000 t		100	00000 TKN	1	9	%
	Slovakia	2247	2158	7774	82	98	1000	260,22%	920,35%
0	Agricultural products	154	136	55	11	11	4	-59,78%	-67,98%
1	Foodstuffs, animal fodder	145	61	87	10	5	7	42,01%	45,49%
2	Solid mineral fuels	68	111	113	6	10	12	1,56%	23,09%
3	Oil and oil-based products	634	765	875	14	35	43	14,34%	22,95%
4	Ore and pig iron for iron and steel industry	778	574	975	18	10	17	69,89%	66,13%
5	Iron and steel products	99	180	290	8	20	26	61,23%	30,95%
6	Crude and manufactured minerals, building materials	39	55	37	5	1	3	-32,75%	201,32%
7	Fertilisers	258	234	194	5	5	4	-17,01%	-10,12%
8	Chemicals	30	26	2	0	0	0	-94,05%	
9	Machinery, transport equipment, manufactured articles	42	16	5147	5	1	883	(-)	(-)
	Croatia	1251	1320	1305	81	63	78	-1,16%	23,08%
0	Agricultural products	55	12	60	3	1	3	401,13%	207,11%
1	Foodstuffs, animal fodder	115	80	27	11	7	2	-66,62%	-76,07%
2	Solid mineral fuels	102	2	1 <i>7</i>	8	0	1	772,05%	
3	Oil and oil-based products	6	5	4	0	0	0	-10,16%	
4	Ore and pig iron for iron and steel industry	<i>7</i> 21	769	674	42	41	38	-12,39%	-6,21%
5	Iron and steel products	<i>7</i> 3	92	135	5	5	7	46,78%	43,62%
6	Crude and manufactured minerals, building materials	26	86	121	1	0	7	40,21%	
7	Fertilisers	132	113	99	9	8	7	-12,43%	-8,33%
8	Chemicals	13	151	166	1	0	12	9,74%	
9	Machinery, transport equipment, manufactured articles	8	10	2	1	1	0	-81,61%	-83,21%
	Total Europe 27	251044	255509	(**)	102203	103317	(**)		
0	Agricultural products	13261	12916		8866	9432			
1	Foodstuffs, animal fodder	14336	13416		8277	7041			
2	Solid mineral fuels	26756	27712		12723	12929			
3	Oil and oil-based products	40067	40196		14723	14659			
4	Ore and pig iron for iron and steel industry	37485	36699		12853	12533			
5	Iron and steel products	13763	13 <i>7</i> 63		6710	7037			
6	Crude and manufactured minerals, building materials	44176	48721		15063	16594			
7	Fertilisers	6977	6580		4006	3846			
8	Chemicals	22683	23369		8106	8370			
9	Machinery, transport equipment, manufactured articles	31540	32137		10876	10876			

⁽⁺⁾ For Slovakia, goods from category 99 have been registered for the first time in 2007.

(*) For these countries, data from EUROSTAT are only delivered according to NST 2007.

(**)At present, these data cannot be calculated because of the transition to the new codification.

Table MO7 - TOTAL TRANSPORT OF GOODS ON INLAND WATERWAYS, BY STATE

		Volumes carried Services				Services		Difference	e 06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	· TK14
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 f	mio TKM
			1000 t		10	O00000 TH	<m< td=""><td>ç</td><td>6</td></m<>	ç	6
	Switzerland	7259	6750	7106	57	53	56	5,27%	6,49%
0	Agricultural products	221	299	384	2	3	4	28,43%	48,15%
1	Foodstuffs, animal fodder	404	418	543	3	3	5	29,90%	61,81%
2	Solid mineral fuels	98	145	222	1	1	2	53,10%	36,05%
3	Oil and oil-based products	3607	3028	2816	29	24	23	-7,00%	-5,58%
4	Ore and pig iron for iron and steel industry	107	157	112	1	1	1	-28,66%	-31,97%
5	Iron and steel products	<i>7</i> 53	862	992	6	6	6	15,08%	-5,66%
6	Crude and manufactured minerals, building materials	552	454	508	4	3	3	11,89%	-8,81%
7	Fertilisers	185	161	171	2	2	2	6,21%	14,94%
8	Chemicals	899	774	8 <i>57</i>	7	6	7	10,72%	16,28%
9	Machinery, transport equipment, manufactured articles	433	452	501	2	2	3	10,84%	43,69%
	Germany	236767	243495	248974	64096	63975	64716	2,25%	1,16%
0	Agricultural products	11207	10791	10471	5280	5174	4982	-2,96%	-3,71%
1	Foodstuffs, animal fodder	15775	14641	15249	6231	5227	5610	4,16%	7,33%
2	Solid mineral fuels	33705	36009	36310	8565	8662	8521	0,84%	-1,63%
3	Oil and oil-based products	38825	39138	35493	10659	10602	9215	-9,31%	-13,08%
4	Ore and pig iron for iron and steel industry	35846	35964	37874	6301	6164	6465	5,31%	4,89%
5	Iron and steel products	13210	13828	15860	3936	4044	4719	14,70%	16,69%
6	Crude and manufactured minerals, building materials	44192	49750	51278	10219	11273	11685	3,07%	3,66%
7	Fertilisers	6111	<i>577</i> 1	<i>57</i> 31	2591	2427	2427	-0,69%	-0,01%
8	Chemicals	19987	20085	21916	4920	5222	5604	9,12%	7,32%
9	Machinery, transport equipment, manufactured articles	17909	1 <i>75</i> 18	18792	5394	5180	5488	7,27%	5,94%
	Austria	9336	9183	12107	1753	1837	2597	31,84%	41,35%
0	Agricultural products	945	884	1398	199	232	410	58,13%	76,92%
1	Foodstuffs, animal fodder	889	707	971	221	177	252	37,36%	42,52%
2	Solid mineral fuels	177	153	275	30	34	55	79,74%	61,17%
3	Oil and oil-based products	2004	1622	2420	277	260	362	49,20%	39,32%
4	Ore and pig iron for iron and steel industry	3041	2841	3438	631	602	734	21,01%	21,88%
5	Iron and steel products	575	894	1312	103	201	313	46,76%	55,72%
6	Crude and manufactured minerals, building materials	635	930	887	87	<i>7</i> 9	121	-4,64%	53,11%
7	Fertilisers	885	918	922	148	176	190	0,40%	7,72%
8	Chemicals	62	35	<i>7</i> 1	1 <i>7</i>	10	18	101,47%	78,99%
9	Machinery, transport equipment, manufactured articles	123	199	413	40	66	142	107,78%	114,66%

		Volu	mes carried			Services		Difference	9 06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
NST	Category of good								
			1000 t		10	000000 TK	M	9	%
	Belgium	160397	165855	(*)	8566	8909	(*)		
0	Agricultural products	5053	5619		448	514			
1	Foodstuffs, animal fodder	5709	5756		272	289			
2	Solid mineral fuels	13430	12612		910	890			
3	Oil and oil-based products	28314	28413		1152	1142			
4	Ore and pig iron for iron and steel industry	9609	8485		671	622			
5	Iron and steel products	9182	10137		482	657			
6	Crude and manufactured minerals, building materials	40454	42998		2930	2996			
7	Fertilisers	6100	6247		461	476			
8	Chemicals	14880	16139		572	602			
9	Machinery, transport equipment, manufactured articles	27666	29449		668	721			
	Bulgaria	5270	5947	6622	757	785	1011	11,36%	28,77%
0	Agricultural products	146	235	251	17	6	43	6,85%	612,15%
1	Foodstuffs, animal fodder	118	149	140	5	8	12	-6,33%	44,93%
2	Solid mineral fuels	1441	1416	1 <i>7</i> 81	321	291	387	25,78%	33,04%
3	Oil and oil-based products	114	260	414	5	35	74	59,24%	111,78%
4	Ore and pig iron for iron and steel industry	598	563	686	199	181	235	21,81%	29,85%
5	Iron and steel products	648	828	765	96	132	131	-7,59 %	-0,89%
6	Crude and manufactured minerals, building materials	1954	2315	2470	83	112	102	6,68%	-8,58%
7	Fertilisers	19	18	24	3	3	5	33,44%	55,72%
8	Chemicals	32	12	54	7	1	10	345,99%	908,85%
9	Machinery, transport equipment, manufactured articles	200	151	38	21	16	12	-74,60%	-23,58%
	France	68347	71448	(*)	8905	9005	(*)		
0	Agricultural products	8927	9165		1590	1547			
1	Foodstuffs, animal fodder	3285	3454		494	497			
2	Solid mineral fuels	6110	6215		796	796			
3	Oil and oil-based products	9714	9349		1111	1066			
4	Ore and pig iron for iron and steel industry	2511	2800		261	291			
5	Iron and steel products	2831	3256		436	501			
6	Crude and manufactured minerals, building materials	25925	28018		2720	2779			
7	Fertilisers	1455	1328		216	202			
8	Chemicals	2975	2982		515	520			
9	Machinery, transport equipment, manufactured articles	4614	4881		766	806			

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Volu	mes carried		S	ervices		Difference 06 / 07		
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	:- TVAA	
NST	Category of good	2005	2006	2007	2005	2006	2007	10001	mio TKM	
			1000 t		1000	0000 TKM	ı		%	
	Luxemburg	10377	11395	(*)	342	381	(*)			
0	Agricultural products	1 <i>77</i> 6	2057		66	77				
1	Foodstuffs, animal fodder	784	1024		29	38				
2	Solid mineral fuels	3 <i>7</i> 18	3994		138	148				
3	Oil and oil-based products	547	562		3	4				
4	Ore and pig iron for iron and steel industry	1307	1609		42	48				
5	Iron and steel products	826	946		27	31				
6	Crude and manufactured minerals, building materials	1008	870		25	25				
7	Fertilisers	318	251		9	7				
8	Chemicals	81	72		3	3				
9	Machinery, transport equipment, manufactured articles	12	10		0	0				
	Hungary	8413	7327	(*)	2110	1913	(*)			
0	Agricultural products	198 <i>7</i>	1857		339	332				
1	Foodstuffs, animal fodder	1243	724		268	161				
2	Solid mineral fuels	328	272		90	81				
3	Oil and oil-based products	1279	855		204	124				
4	Ore and pig iron for iron and steel industry	1568	1326		582	495				
5	Iron and steel products	899	1146		276	359				
6	Crude and manufactured minerals, building materials	242	327		70	103				
7	Fertilisers	333	341		98	96				
8	Chemicals	119	133		44	50				
9	Machinery, transport equipment, manufactured articles	415	346		139	112				
	Netherlands	317639	317853	(*)	42225	42311	(*)			
0	Agricultural products	<i>7</i> 613	7755		1105	1139				
1	Foodstuffs, animal fodder	19009	18007		2794	2647				
2	Solid mineral fuels	27647	28658		4001	4121				
3	Oil and oil-based products	56899	57995		7250	7272				
4	Ore and pig iron for iron and steel industry	36813	35697		4945	4836				
5	Iron and steel products	12052	11924		1966	1958				
6	Crude and manufactured minerals, building materials	77073	<i>7</i> 6184		8948	8891				
7	Fertilisers	5967	5608		1104	1025				
8	Chemicals	27603	27638		4076	4067				
9	Machinery, transport equipment, manufactured articles	46963	48387		6036	6355				

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Volu	mes carrie	d		Services		Difference	e 06 / 07
N°	Country	2005	2006	2007	2005	2006	2007	1000 t	mio TKM
NST	Category of good	2003	2000	2007	2003	2000	2007	10001	IIIIO TKW
			1000 t		100	0000 TKA	٨	9	%
	Poland	7166	6609	(*)	327	289	(*)		
0	Agricultural products	46	52		2	3			
1	Foodstuffs, animal fodder	128	44		7	3			
2	Solid mineral fuels	1774	1783		182	180			
3	Oil and oil-based products	62	14		1	0			
4	Ore and pig iron for iron and steel industry	535	367		26	13			
5	Iron and steel products	568	343		37	21			
6	Crude and manufactured minerals, building materials	3332	3389		41	44			
7	Fertilisers	342	271		16	11			
8	Chemicals	322	304		7	6			
9	Machinery, transport equipment, manufactured articles	57	42		8	8			
	Czech Republic	1613	1141	1141	64	44	36	0,00%	-17,63%
0	Agricultural products	329	234	92	11	8	3	-60,80%	-65,45%
1	Foodstuffs, animal fodder	353	241	250	10	8	7	3,60%	-9,16%
2	Solid mineral fuels	10	0	27	0	0	0		
3	Oil and oil-based products	0	0	16	0	0	0		
4	Ore and pig iron for iron and steel industry	14	16		2	1	1		8,76%
5	Iron and steel products	18	33		0	0	0		
6	Crude and manufactured minerals, building materials	708	481	668	31	18	19	38,95%	4,92%
7	Fertilisers	105	72	46	6	4	3	-35,69%	-30,90%
8	Chemicals	44	32	14	2	2	1	-57,17%	-58,10%
9	Machinery, transport equipment, manufactured articles	32	32	29	2	3	2	-9,66%	-25,56%
	Romania	32845	29274	29425	8436	8157	8195	0,52%	0,46%
0	Agricultural products	2731	3335	2263	1873	2286	1512	-32,15%	-33,85%
1	Foodstuffs, animal fodder	162	222	491	70	85	173	121,29%	103,41%
2	Solid mineral fuels	2988	3131	4030	690	696	966	28,70%	38,84%
3	Oil and oil-based products	146	212	343	39	50	94	61,77%	87,22%
4	Ore and pig iron for iron and steel industry	14154	10969	851 <i>7</i>	3753	3155	2613	-22,36%	-17,18%
5	Iron and steel products	2243	1756	2257	729	554	808	28,53%	45,92%
6	Crude and manufactured minerals, building materials	9596	8939	10084	911	963	1403	12,81%	45,68%
7	Fertilisers	633	525	950	279	272	434	80,90%	59,48%
8	Chemicals	40	68	264	13	24	99	288,51%	310,44%
9	Machinery, transport equipment, manufactured articles	152	117	227	79	72	93	94,13%	29,36%

^(*) For these countries, data from EUROSTAT are only delivered according to NST 2007

		Volu	umes carried			Services		Difference 06 / 07		
N°	Country									
NST	Category of good	2005	2006	2007	2005	2006	2007	1000 t	mio TKM	
			1000 t		100	00000 TKM	•	c.	%	
	Slovakia	2350	2252	8013	88	106	1004	255,80%	847,14%	
0	Agricultural products	164	140	55	12	11	4	-60,70%	-67,69%	
1	Foodstuffs, animal fodder	145	61	87	10	5	7	42,01%	45,49%	
2	Solid mineral fuels	68	111	113	6	10	12	1,56%	23,09%	
3	Oil and oil-based products	634	765	875	14	35	43	14,34%	22,95%	
4	Ore and pig iron for iron and steel industry	777	574	975	18	10	17	69,89%	66,13%	
5	Iron and steel products	99	180	290	8	20	26	61,23%	30,95%	
6	Crude and manufactured minerals, building materials	133	145	276	10	9	7	90,07%	-22,35%	
7	Fertilisers	258	234	194	5	5	4	-17,01%	-10,12%	
8	Chemicals	30	26	2	0	0	0	-94,05%		
9	Machinery, transport equipment, manufactured articles	42	16	5147	5	1	883			
	Croatia	1446	1509	1467	119	116	109	-2,76%	-6,07%	
0	Agricultural products	65	15	60	4	1	3	300,90%	207,11%	
1	Foodstuffs, animal fodder	115	80	27	11	7	2	-66,62%	-76,07%	
2	Solid mineral fuels	102	2	17	8	0	1	772,05%		
3	Oil and oil-based products	1 <i>7</i> 8	177	144	38	38	31	-18,77%	-17,92%	
4	Ore and pig iron for iron and steel industry	<i>7</i> 21	769	674	41	41	38	-12,39%	-6,21%	
5	Iron and steel products	<i>7</i> 3	92	135	5	5	7	46,78%	43,62%	
6	Crude and manufactured minerals, building materials	39	101	144	1	5	7	42,65%	40,90%	
7	Fertilisers	132	112	99	9	8	7	-11,65%	-8,33%	
8	Chemicals	13	151	166	1	10	12	9,74%	16,40%	
9	Machinery, transport equipment, manufactured articles	8	10	2	1	1	0	-81,61%	-83,21%	
	Total Europe 27	498806	503194	(**)	137668	137712	(**)			
0	Agricultural products	21236	20594		10944	11330				
1	Foodstuffs, animal fodder	26180	25411		10410	9144				
2	Solid mineral fuels	45646	46195		1 <i>57</i> 30	15906				
3	Oil and oil-based products	85221	86255		20715	20591				
4	Ore and pig iron for iron and steel industry	57265	53021		17429	16420				
5	Iron and steel products	19876	21059		8096	8477				
6	Crude and manufactured minerals, building materials	145060	149880		26075	27290				
7	Fertilisers	11410	10696		4936	4705				
8	Chemicals	37018	37254		101 <i>75</i>	10509				
9	Machinery, transport equipment, manufactured articles	49894	52829		13158	13340				

⁽⁺⁾ For Slowakia, goods from category 99 have been registered for the first time in 2007.

(*) For these countries, data from EUROSTAT are only delivered according to NST 2007.

(**) At present, these data cannot be calculated because of the transition to the new codification.

Note:

Because of the changeover from the NSTR coding for goods to the NST 2007 system, some States have already provided the data for 2007 coded only according to the NST 2007 system.

Since the two coding systems are basically different, these data have to be presented separately, depending on the coding applied. This is why the tables of goods in Tables OM5 to OM7 are incomplete.

The following tables show the data for these States for 2007. From 2008 onwards it should be possible to adopt a uniform presentation.

2007	National Transports in 1000 Tonnes	BE	FR	IΤ	LT	LU	ни	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	856	3122	336			1	1678	4		144
GT02	Coal and lignite; crude petroleum and natural gas	3479	2832						671		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	10660	17310	32	125		19	40879	2982		1593
GT04	Food products, beverages and tobacco	981	393				0	3228	20		195
GT05	Textiles and textile products; leather and leather products	1						28			
GT06	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	218	162				3	432	1	472	8
GT07	Coke and refined petroleum products	477	3515	152	0		28	3280	0		670
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	3397	1199	140				223	296		10
GT09	Other non metallic mineral products	4402	836				7	1382	0		
GT10	Basic metals; fabricated metal products, except machinery and equipment	4756	982	10				1187	27		24
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	26	0	26			8	0	0		
GT12	Transport equipment	13	89					11457	4		0
GT13	Furniture; other manufactured goods n.e.c.	1	1806					2			
GT14	Secondary raw materials; municipal wastes and other wastes	51	670					681			892
GT16	Equipment and material utilized in the transport of goods	480	142					13			
GT1 <i>7</i>	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	86									
GT18	Grouped goods: a mixture of types of goods which are transported together	0									
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	<i>7</i> 301		0				34232			4
GT20	Other goods n.e.c.	3									
TOTAL	Total national transport	41484	33057	695	126		67	98702	4006	472	3540

2007	National transport performance in mio TKM	BE	FR	IT	LT	LU	HU	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	568	1737	26		98	387	993	7		10
GT02	Coal and lignite; crude petroleum and natural gas	901	723			124	65	0	143		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	3150	2570	0	10	47	666	12846	48		80
GT04	Food products, beverages and tobacco	233	211			1	50	1184	2		1
GT05	Textiles and textile products; leather and leather products	0						17	0		
GT06	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	114	153			1	8	673	5	102	0
GT07	Coke and refined petroleum products	818	1010	35	0	3	249	4106	1		24
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	961	698	25		9	150	428	22		0
GT09	Other non metallic mineral products	618	204			1	30	708	3		
GT10	Basic metals; fabricated metal products, except machinery and equipment	930	880	2		36	504	2378	43		1
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	4	5	5		0	34	12	1		
GT12	Transport equipment	1	15				47	5557	2		0
GT13	Furniture; other manufactured goods n.e.c.	2	838				0	0			
GT14	Secondary raw materials; municipal wastes and other wastes	16	120			23	5	490			45
GT16	Equipment and material utilized in the transport of goods	201	42			0	0	1			
GT17	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	13									
GT18	Grouped goods: a mixture of types of goods which are transported together	0					13				
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	761		0				12475			0
GT20	Other goods n.e.c.	1				1	5		0		
	Total national transport performance	9293	9208	93	10	345	2212	41868	277	102	162

2007	International transport in 1000 tonnes	BE	FR	IT	LT	LU	ни	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	5756	7555				2292	5369	90		
GT02	Coal and lignite; crude petroleum and natural gas	<i>7</i> 963	4003			3344	192		1056		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	31407	11435			1383	1784	66209			
GT04	Food products, beverages and tobacco	3440	1158				224	6086	24		
GT05	Textiles and textile products; leather and leather products							93			
GT06	Wood and products of wood and cork (except furniture); criticles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	976	1033					3370			
GT07	Coke and refined petroleum products	7404	6023			396	1372	24957			
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	7326	2812			304	492	2082			
GT09	Other non metallic mineral products	3468	100				107	3531			
GT10	Basic metals; fabricated metal products, except machinery and equipment	6694	4757			1036	1563	12295	598		
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	33	49				89	69			
GT12	Transport equipment						125	36635	5		
GT13	Furniture; other manufactured goods n.e.c.	13	3141								
GT14	Secondary raw materials; municipal wastes and other wastes	152	724			820	17	2512			
GT16	Equipment and material utilized in the transport of goods	11 <i>77</i> 8									
GT17	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	68									
GT18	Grouped goods: a mixture of types of goods which are transported together	2									
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	11215						62229			
GT20	Other goods n.e.c.	7				14	30				
	Total international transport	97789	42947	0	0	9999	8344	225439	2439	0	0

2007	International transport performance in mio TKM	BE	FR	IT	LT	LU	ни	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	493	935				387	797	6		
GT02	Coal and lignite; crude petroleum and natural gas	506	235			124	65		50		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	2042	852			47	664	9068			
GT04	Food products, beverages and tobacco	176	144				50	888	1		
GT05	Textiles and textile products; leather and leather products							14			
GT06	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	87	118					613			
GT07	Coke and refined petroleum products	387	686			3	246	3704			
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	677	393			9	150	399			
GT09	Other non metallic mineral products	240	11				28	497			
GT10	Basic metals; fabricated metal products, except machinery and equipment	571	636			36	504	2200	40		
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	2	5				33	12			
GT12	Transport equipment						47	4398	1		
GT13	Furniture; other manufactured goods n.e.c.	1	370								
GT14	Secondary raw materials; municipal wastes and other wastes	13	54			23	5	398			
GT16	Equipment and material utilized in the transport of goods	171									
GT17	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	6									
GT18	Grouped goods: a mixture of types of goods which are transported together	0									
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	337						8893			
GT20	Other goods n.e.c.	1				1	5				
	Total international transport performance	5712	4452	0	0	345	2206	31880	132	0	0

2007	Total Transport in 1000 Tonnes	BE	FR	IT	LT	LU	ни	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	6612	10677	336		2617	2293	7047	93		144
GT02	Coal and lignite; crude petroleum and natural gas	11442	6835			3344	192	3	1727		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	42067	28745	32	125	1383	1803	107088	3187		1593
GT04	Food products, beverages and tobacco	4421	1550			26	224	9313	44		195
GT05	Textiles and textile products; leather and leather products	3						121	9		
GT06	Wood and products of wood and cork (except furniture); criticles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	1194	1195			20	23	3802	88	472	8
GT07	Coke and refined petroleum products	121 <i>77</i>	9538	152	0	396	1400	28237	14		670
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	10723	4011	140		304	492	2305	58 <i>7</i>		10
GT09	Other non metallic mineral products	7869	936			37	115	4913	49		
GT10	Basic metals; fabricated metal products, except machinery and equipment	11450	5739	10		1036	1563	13482	625		24
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	59	50	26		2	98	69	11		
GT12	Transport equipment	98	92				125	48092	9		0
GT13	Furniture; other manufactured goods n.e.c.	14	4946				1	2			
GT14	Secondary raw materials; municipal wastes and other wastes	203	1394			820	17	3193			892
GT16	Equipment and material utilized in the transport of goods	12259	296			0	0	13			
GT17	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	154									
GT18	Grouped goods: a mixture of types of goods which are transported together	2					34				
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	18516		0				96461			4
GT20	Other goods n.e.c.	10				14	30		2		
	Total Transport	139273	76004	695	126	9999	8410	324141	6444	472	3540

2007	Total transport performance in mio TKM	BE	FR	IT	LT	LU	ни	NL	PL	FI	UK
GT01	Products of agriculture, hunting, and forestry; fish and other fishing products	568	1737	26		98	387	993	7		10
GT02	Coal and lignite; crude petroleum and natural gas	901	723			124	65	0	143		
GT03	Metal ores and other mining and quarrying products; peat; uranium and thorium	3150	2570	0	10	47	666	12846	48		80
GT04	Food products, beverages and tobacco	233	211			1	50	1184	2		1
GT05	Textiles and textile products; leather and leather products	0						17	0		
GT06	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials; pulp, paper and paper products; printed matter and recorded media	114	153			1	8	673	5	102	0
GT07	Coke and refined petroleum products	818	1010	35	0	3	249	4106	1		24
GT08	Chemicals, chemical products, and man-made fibers; rubber and plastic products; nuclear fuel	961	698	25		9	150	428	22		0
GT09	Other non metallic mineral products	618	204			1	30	708	3		
GT10	Basic metals; fabricated metal products, except machinery and equipment	930	880	2		36	504	2378	43		1
GT11	Machinery and equipment n.e.c.; office machinery and computers; electrical machinery and apparatus n.e.c.; radio, television and communication equipment and apparatus; medical, precision and optical instruments; watches and clocks	4	5	5		0	34	12	1		
GT12	Transport equipment	1	15				47	5557	2		0
GT13	Furniture; other manufactured goods n.e.c.	2	838				0	0			
GT14	Secondary raw materials; municipal wastes and other wastes	16	120			23	5	490			45
GT16	Equipment and material utilized in the transport of goods	201	42			0	0	1			
GT17	Goods moved in the course of household and office removals; baggage and articles accompanying travellers; motor vehicles being moved for repair; other non market goods n.e.c.	13									
GT18	Grouped goods: a mixture of types of goods which are transported together	0					13				
GT19	Unidentifiable goods: goods which for any reason cannot be identified and therefore cannot be assigned to groups 01-16.	<i>7</i> 61		0				12475			0
GT20	Other goods n.e.c.	1				1	5		0		
	Total transport performance	9293	9208	93	10	345	2212	41868	277	102	162

Tabelle MO8: Transport of containers in the various geographic sectors National transport of containers (in TEUs)

	Total	empty	loaded
Netherlands			
05	746981		
06	816234		
07	822820		
Evolution (2007 / 2006)	0,81%		
Germany			
05	203709	97521	106188
06	182076	80488	101588
07	185343	78792	106551
Evolution (2007 / 2006)	1,79%	-2,11%	4,89%
France			
(Bassin du Rhône) 05	55807	-	-
06	61258		
07	67055		
Evolution (2007 / 2006)	9,46%	-	-
(Bassin de la Seine) 05	121584	-	-
06	143206		
07	185008		
Evolution (2007 / 2006)	29,19%	-	-
(Canaux du nord) 05	61709	-	-
06	69751	-	-
07	71103		
Evolution (2007 / 2006)	1,94%	-	-

source: St BA, CBS, VNF

North-south transport (in TEUs)

	Total	Imports			Exports		
North-south transport		Total	empty		Total	empty	
Belgium / Netherlands							
05	833200	466649			366551		
06	814708	433210			381298		
07	853057	438605			414452		
Evolution (2007 / 2006)	4,71%	1,25%			8,70%		
France / Belgium							
05	35292	16181	10913	5268	19111	3470	15641
06	38809	17441	9587	7854	21368	5986	15382
07	40002	18402	8843	9559	21600	5963	15637
Evolution (2007 / 2006)	3,07%	5,51%	-7,76%	21,71%	1,09%	-0,38%	1,66%
France / Netherlands							
05	4785	2349	1040	1309	2436	789	1647
06	8493	4596	807	3789	3897	2070	1827
07	11878	6585	620	5965	5293	3530	1763
Evolution (2007/ 2006)	39,86%	43,28%	-23,17%	57,43%	35,82%	70,53%	-3,50%
Total 05	873277	485179			388098		
Total 06	862010	455247			406563		
Total 07	904937	463592			441345		
Evolution (2007 / 2006)	4,98%	1,83%			8,56%		

source: CBS, VNF

Table MO9: Transport of containers on the Rhine (in TEUs) (from the German-Dutch border to Basle)

		Rhine	– downstrean	1	Rhine – upstream		
Year Total		Total	empty	loaded	Total	empty	loaded
	•		Total for the	traditional R	nine		
Rheinfelde	en Emmerich						
2003	1541996	806501	119078	687423	735495	405396	330099
2004	1810669	957730	122601	835129	852939	489520	363419
2005	1960870	1025033	164259	860774	935837	536631	399206
2006	1935023	999765	109888	889877	935258	531729	403529
2007	1968958	1030018	121614	908404	938940	503465	435475
Entw.	1,75%	3,03%	10,67%	2,08%	0,39%	-5,32%	7,92%
			Upp	er Rhine			
Rheinfelde	en Strasbourg						
2003	191520	94122	12561	81561	97398	55871	41527
2004	211926	108702	10440	98262	103224	59939	43285
2005	200346	106106	11697	94409	94240	50637	43603
2006	212934	113179	14608	98571	99755	51035	48720
2007	220721	111227	18039	93188	109494	50271	59223
Entw.	3,66%	-1,72%	23,49%	-5,46%	9,76%	-1,50%	21,56%
Strasbour	g Neuburgweie	er		<u> </u>			
2003	238171	122526	13520	109006	115645	68974	46671
2004	291488	155710	12524	143186	135778	85372	50406
2005	272092	144547	13598	130949	127545	75277	52268
2006	263573	140608	17647	122961	122965	66927	56038
2007	279155	145555	22100	123455	133600	66360	67240
Entw.	5,91%	3,52%	25,23%	0,40%	8,65%	-0,85%	19,99%
Neuburgv	veier Mannheim	1					
2003	659638	344219	28293	315926	315419	200356	115063
2004	804327	424978	26749	398229	379349	251620	127729
2005	826591	428997	38740	390257	397594	260807	136787
2006	809905	412291	35753	376538	397614	261109	136505
2007	806707	425241	39792	385449	381466	229570	151896
Entw.	-0,39%	3,14%	11,30%	2,37%	-4,06%	-12,08%	11,28%

	Rhine - downstream Rhine - upstream					n	
Year	Total	Total	empty	loaded	Total	empty	loaded
	·		Midd	lle Rhine			
Mannheim	Bingen						
2003	861153	446949	41005	405944	414204	232784	181420
2004	1043002	551059	45002	506057	491943	289128	202815
2005	1092998	575468	85004	490464	517530	304494	213036
2006	1051485	532874	47705	485169	518611	306729	211882
2007	1037694	536546	50070	486476	501148	267976	233172
Entw.	-1,31%	0,69%	4,96%	0,27%	-3,37%	-12,63%	10,05%
Bingen Lüls	sdorf						
2003	929011	490904	45938	444966	438107	246487	191620
2004	1149006	612931	50789	562142	536075	316625	219450
2005	1230759	646390	91203	555187	584369	353477	230892
2006	1172605	600549	52483	548066	572056	344205	227851
2007	1167369	610671	55641	555030	556698	302490	254208
Entw.	-0,45%	1,69%	6,02%	1,27%	-2,68%	-12,12%	11,57%
			Low	er Rhine			
Lulsdorf O	rsoy						
2003	1414998	738026	96592	641434	676972	365096	311876
2004	1686072	888651	100939	787712	797421	450111	347310
2005	1847298	969068	145651	823417	878230	498795	379435
2006	1806059	933077	85656	847421	872982	492189	380793
2007	1817409	952054	92764	859290	865355	458543	406812
Entw.	0,63%	2,03%	8,30%	1,40%	-0,87%	-6,84%	6,83%
Orsoy Emn	nerich						
2003	1485675	772369	103117	669252	713306	384474	328832
2004	1745474	912949	105183	807766	832525	470112	362413
2005	1885195	972788	127207	845581	912407	517699	394708
2006	1876188	968057	94828	873229	908131	507914	400217
2007	1917945	999996	107323	892673	917949	485217	432732
Entw.	2,23%	3,30%	13,18%	2,23%	1,08%	-4,47%	8,12%

source: St BA, Wiesbaden

Glossary

20-foot Equivalent Units (TEUs): Unit of measurement for registering containers according to their dimensions and for the description of the capacity of container vessels and terminals. One ISO 20-foot container (20 feet long and 8 feet wide) corresponds to 1 TEU.

ARA ports: Abbreviation for the three major European ports of Amsterdam, Rotterdam and Antwerp.

Downstream navigation: navigation downriver

Downstream: Refers to the part of an inland waterway located between a given point and the embouchure or confluence.

Draught: Height of the immerged part of a vessel; thus draught affects the loading level.

Dry hold: Used for the transport of dry cargo.

Econometric ratio: Estimated ratio between two or more values (e.g. production of steel, transport on inland waterways, imports of coal, etc.) on the basis of statistical data, using electronic calculation procedures. This estimate is used in making forecasts.

Electric steel: Electric steel is produced by melting down scrap metal using electric arc technology.

Freight: Refers to goods being transported or the price of transport.

Handling: Transshipment of goods from one means of transport to another.

Hold: Compartment covering the larger part of a commercial vessel, for the storage of cargo to be transported.

Inland navigation / inland waterways transport: Transport of goods or persons on board a vessel intended for transport on a given network of inland waterways.

Inland waterway: Navigable inland waterways that may be used with a normal load by vessels with a minimum deadweight of 50 tonnes. Inland waterways include navigable rivers, lakes and canals.

Offer of transport or of capacity: Total loading capacity of the available fleet, expressed in tonnes.

Oxygen steel: Steel produced from iron ore and coal using blast-furnace technology, passing through a number of stages (injection of oxygen, etc).

Production/yield: The notion of production/yield as used in this publication is intended to define in index form the activity of inland waterways transport, taking into account a given level of demand and the freight rates applied on the market.

River/sea transport: Transport of goods on board a river/sea vessel (seagoing vessel designed for use on inland waterways), carried out entirely or partly on the inland waterways network.

Service: Refers to the service of the transport of goods, expressed in tonnes/kilometre.

Tanker hold: Used for the transport of cargo in tankers.

Tonnes/kilometre (Tkm): Unit of measurement for transport services, corresponding to the transport of one tonne over one kilometre of an inland waterway. Determined by multiplying the volume carried in tonnes by the distance travelled in kilometres.

Transshipment: Unloading of a cargo from one seagoing freight vessel and loading onto another seagoing freight vessel, even if the cargo has remained on land for any length of time before the transport continues.

Upstream navigation: Navigation travelling upstream.

Upstream: Refers to the part of an inland waterway located between a given point and the source.

Water conditions: Height of the water in a river or canal, in cm.

Sources of information

International organisations

Eurostat

ECMT

Danube Commission

International Monetary Fund (IMF)

Moselle Commission

OECD

National authorities

Bundesanstalt für Gewässerkunde (Germany)

Bundesamt für Güterverkehr (Germany)

CBS, Centraal Bureau voor de Statistiek (Netherlands)

EnergieNed (Netherlands)

Institut National Statistique (Belgium)

MEEDDAT/DGEC (Ministry of Ecology, Energy, Sustainable Development, and Regional Development /

Directorate-General for Energy and the Climate) (France)

Statistisches Bundesamt (Germany)

Statistics Austria (Austria)

Ministry of Mobility and Transport (Belgium)

Ministry of the Economy, SMBs, the Middle Classes, and Energy (Belgium)

Umweltbundesamt (Germany)

Voies Navigables de France - VNF (France)

Via Donau (Austria)

WSD Süd-West (Germany)

WSD-OST (Germany)

Private organisations

Arbeitgeberverband der Deutschen Binnenschifffahrt (ADB)

Institut pour le Transport par Batellerie (ITB)

Institut für Seeverkehrswirtschaft und Logistik (ISL)

NEA Consulting

NHR (Nationale Havenraad)

PJK International b. v.

IG River Advice, Basle

Planco

Hader&Hader

Inland navigation organisations

IVR

CBRB

EUNF

OEB

VBW

Industrial organisations

BDI

Belgian Steel Federation (GSV)

CEFIC

Eurofer (European Confederation of Iron and Steel Industries)

Euracoal (European Association for Coal and Lignite)

Fédération Française de l'Acier

Fertilizer Industrie Union

Hauptverband der deutschen Bauindustrie

International Iron and Steel Institute Mineralölwirtschaftsverband (MWV) Verein der deutschen Kohleimporteure (VDKI) Wirtschaftsvereinigung Stahl

Ports

Antwerp Rotterdam Amsterdam Hamburg Bremen Zeebrugge Le Havre Wilhelmshafen Dunkerque

Collaborators

Group of experts

Mr Vogelaar (EUNF) Mr Kamphaus (EUNF) Mr Veldman (OEB) Mr Gierke (BAG)

European Commission

Mr Dieter (Administrator)

Designed by:

Bitfactory
Willem Buytewechstraat 40
NL-3024 BN Rotterdam

CCNR Secretariat

Mr Van Der Werf (Project Manager) Mr Weber (Administrator) Mr Kriedel (Econometrician) Ms Gerolt (Secretariat) Mr Laugel (Printing)

Contact: jp.weber@ccr-zkr.org

Date of publication: February 2009
Published by the Secretariat of the Central Commission for Navigation on the Rhine Secretariat: 2 Place de la République, 67082 Strasbourg cedex [France] - www.ccr-zkr.org ISSN 2070-6715





