

BULLETIN



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Economic Development, Inflation and Monetary Policy

Electronic Cash

Economic Developments, Inflation and Monetary Policy

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ECONOMIC DEVELOPMENTS, INFLATION AND MONETARY POLICY

aving started in the export sector, Finland's economic recovery is now spreading to the domestic sector. Private demand grew throughout the first three quarters of this year. The upturn in GDP started in the latter half of 1993, accelerated in the second guarter of 1994 and continued at only a marginally slower pace in the third quarter. GDP in the third quarter was an estimated 4 per cent higher than a year earlier. Rapidly expanding international trade has contributed to the strengthening of the Finnish economy; this year an increasing share of exports has again gone to Finland's traditional export markets. The volume of merchandise exports in the first ten months of this year was 11 per cent higher than in the same period a year ago. The forest and metal and engineering industries again recorded the fastest growth. Activity in the public sector is still declining, but the private service sector started to recover during the first half of the year. However, the rise in the level of employment has so far been almost entirely attributable to the manufacturing industries. The seasonally adjusted unemployment rate fell slightly in October to 17.8 per cent.

Survey data point to increased optimism. According to the September survey of business confidence conducted by the Confederation of Finnish Industry and Employers, problems connected with slack demand in industries serving the domestic market are diminishing and the export industries are increasingly facing capacity constraints. Other surveys indicate that, by and large, investment is not being held back by financing problems, although small firms in the manufacturing and service sectors are experiencing some difficulty in obtaining financing owing to a lack of collateral.

Private investment in productive capacity turned up in the first months of the year and was 12 per cent higher in the first six months of the year than in the same period in 1993. However, the volume of investment is still at a low level. Real private consumption in the first half of the year was up 1.5 per cent compared with the first half of 1993 and 2 per cent compared with the second half of 1993, and consumption has continued to grow in the subsequent months. The increase in households' earnings has been more subdued than the growth of private consumption. So, the savings ratio, which had reached an exceptionally high level during the recession, has gradually started to decline. At present, few finance consumption or investment by incurring new debt: the amount of outstanding markka bank lending, especially to households, has decreased further. Up till now, the optimism of households indicated in surveys has been reflected in increased purchases of durable goods but not in increased housing investment.

The current account posted a surplus of FIM 8.4 billion for the first ten months of the year. The trade surplus amounted to FIM 30.5 billion, even though the volume of merchandise imports grew by more than onefifth in the August-October period compared with the same period in 1993. The deficit on the services account has narrowed considerably. The net outflow of investment income amounted to FIM 17.7 billion in the first ten months of the year, some FIM 6 billion less than in the same period a year ago. The decrease was mainly due to improved earnings on direct investment and the appreciation of the markka. Interest payments tend to be concentrated in the first half of the year, and the current account surplus is being underpinned by a continuing improvement in the terms of trade.

There have been further changes in the structure of foreign debt. The private sector has been paying back its loans whereas the central government has accumulated more foreign debt. Of the central government's net financing requirement of FIM 48 billion for the first three quarters of the year, almost two-thirds was financed by foreign borrowing. As yet, there has not been a clear shift towards better balance in central government finances. Both interest expenditure and transfers to households have grown further this year. Tax receipts have increased only slowly. The growth of interest expenditure has been curbed by the appreciation of the markka; in October, the central government accounted for about 70 per cent of Finland's total net foreign debt of more than FIM 260 billion.

INFLATION HAS REMAINED SUBDUED

Despite the recovery in economic activity, the rise in prices has remained subdued. Consumer prices rose by 1.9 per cent in the twelve months to October. The rate of increase has remained unchanged over the last three months.

The impact of the VAT reform implemented at the beginning 3

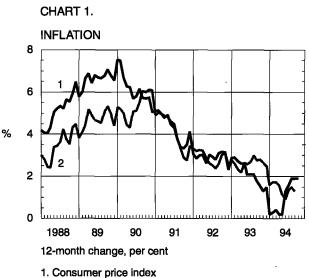
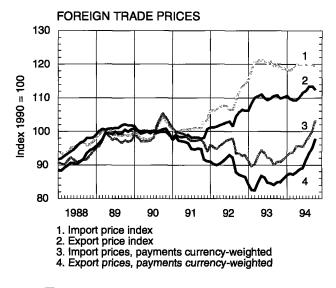




CHART 2.



of June 1994 is not reflected in the indicator of underlying inflation, which showed a rise of 1.3 per cent in the twelve months to September. However, the annual rate of increase in underlying inflation in the three months from July to September was 2.7 per cent. The temporary acceleration of underlying inflation does not point to any change of trend in inflation, but rather is mainly explained by adjustments in the tax rate index in connection with the VAT reform.¹

Movements in producer prices in manufacturing have also been moderate this autumn, although prices did rise substantially in the summer. In October, the twelve-month change in producer prices was 2.2 per cent and the annualized three-month change only 2.6 per cent. Producer prices did not rise at all between September and October. The temporary acceleration of the rate of increase in producer prices in the summer was due to the rise in the prices of raw materials and producer goods, which, in turn, was largely caused by the sharp rise in world market prices of pulp, paper and basic metals.

World market prices, particularly those of raw materials and products based on them that are important for Finnish exports, are a potentially important source of inflationary pressures. Owing to the strengthening of the markka - especially against the US dollar - these pressures have, however. remained subdued so far. In October, the twelve-month rise in the HWWA index, which measures world market prices of raw materials in dollar terms, was 10.2 per cent and the rise in Finnish import prices (payments currency-weighted) was 13.7 per cent in foreign currency terms. However, over the same period, import prices fell by 0.8 per cent in markka terms, and the annualized three-month rate of decline in October was 3.6 per cent. For export prices too, the rise has been considerably slower in markka terms than in foreign currency terms: the twelve-month rise in export prices was 15.2 per cent in foreign currency terms, whereas the corresponding rise in markka terms was only 1.4 per cent. Over the last three months, the annualized rate of change was 3.6 per cent. In October, both import and export prices decreased by about 1 per cent in markka terms from September.

Wage developments have been moderate. In the third quarter of this year, the index of wage and salary earnings was

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The rate of underlying inflation is calculated by subtracting the share of the tax rate index, house prices and interest on housing loans from the consumer price index. A temporary distortion appears in the indicator of underlying inflation if the timing of the estimated changes in the tax rate index differs from that of the actual effects of changes in indirect taxes and subsidies on retail prices.

2.0 per cent higher than in the corresponding period a year ago and only slightly higher than in the second quarter of this vear. There are, however, substantial differences between sectors. In manufacturing, the level of earnings in the third quarter was 4.8 per cent higher than a year ago; in the private sector as a whole the rise was 2.6 per cent and in the public sector 0.9 per cent. As labour productivity has continued to increase rapidly, unit labour costs have decreased, despite the continued rise in indirect labour costs.

Asset prices have risen compared with 1993, but in the last few months the rise in prices has levelled off. For the country as a whole, house prices in the third quarter of the year were, on average, 6.5 per cent higher than one year earlier but 1 per cent below their second-quarter level, apparently because of higher interest rates. In the metropolitan area of Helsinki, the prices of old two-room flats fell in October to their level a year ago. Recently, developments in share prices have been fairly stable: the slow rise in the HEX all-share index continued in the July-October period, and in November the index was almost as high, on average, as in February. Throughout the summer, stumpage prices (the price of standing timber) remained stable at the level prescribed by the stumpage price agreement. In the autumn, strong demand for timber has pushed prices somewhat above the price level stipulated in the agreement. In October, stumpage prices were 23 per cent higher than one year earlier and their annualized rise from July was 11 per cent.

The rate of increase in consumer prices is likely to remain at about 2 per cent for the rest of the year. The rate of underlying inflation should remain below that level. A further marked decline in unit labour costs is likely and, owing to the appreciation of the markka, there should not be any upward pressures on import prices in the last months of

year. Furthermore, the the growth of demand and higher capacity utilization will help to improve the profitability of the domestic sector and thus alleviate inflationary pressures. The difference between consumer price changes and underlying inflation is largely due to the VAT reform, which has raised consumer prices by about 0.6 per cent compared with a year ago. On the other hand, interest rates on lending to households. having remained stable in the autumn at a lower level than last year, will exert slight downward pressure on the consumer price index compared with a year ago.

MARKKA HAS APPRECIATED

Reflecting the favourable performance of the real economy and increased support for Finland's EU membership in the run up to the referendum, the external value of the markka appreciated from mid-August onwards. Initially, the markka was strengthened by the current account surplus and, in particular, by investments in markka securities by foreign investors. Subsequently, Finnish companies have also begun selling foreign currencies along with the gradual repatriation of their export earnings.

During the autumn, capital imports by the central government have been at a notably lower level than in the summer. Nevertheless, in the September-October period, the central government raised foreign currency loans to the net value of FIM 11 billion. However, the central government's foreign exchange transactions do not affect exchange rates as its foreign currency loans are not repatriated through the exchange market. Rather, the Bank of Finland purchases foreign currencies directly from the government, thereby adding to its reserves. By the end of October, the Bank of Finland's foreign exchange reserves, including its forward exchange position, had increased to FIM 58 billion.

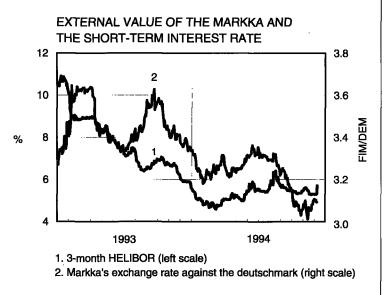
The Bank of Finland has intervened in the foreign exchange market from time to time in order to check the markka's rapid appreciation, but it has not attempted to prevent the strengthening as such. The scope for curbing market-induced pressures for the strengthening of the markka through currency purchases is limited. Largescale purchases currency would increase liquidity in the economy and jeopardize future price stability.

Particularly after the EU referendum, the markka appreciated very rapidly, with the exception of the period preceding the Swedish referendum in early November, when Finland's protracted parliamentary debate over EU membership also increased uncertainty in the financial markets. The markka softened slightly again at the end of November because of market concern over demands for high wage increases. Movements in exchange rates and interest rates in Sweden seem to have had an impact on the Finnish money market in the short term, despite the fact that the problems relating to inflation expectations and central government finances in Finland are less serious.

From mid-August to the end of November, the markka appreciated by a total of 6.5 per cent against the ECU basket. Over the same period, the dollar and the deutschmark weakened by 6 and 7 per cent, respectively, in relation to the markka. At the end of November, the markka's value in relation to the ECU - and also in terms of the trade-weighted index - was about 6 per cent lower than in September 1992, prior to the floating of the markka. Compared with summer 1991, the markka's value had fallen by 21 per cent against the ECU and by 17 per cent in terms of the trade-weighted index.

Finland will join the European Monetary System (EMS) of the central banks of the EU member states with effect from the beginning of 1995. The markka will not, however, be in- 5





cluded in the Exchange Rate Mechanism (ERM) and it will continue to float. Nor will the markka be included in the ECU basket.

LONG-TERM INTEREST RATES HIGH, SHORT-TERM RATES IN LINE WITH INTERNATIONAL INTEREST RATES

Despite the fact that the strengthening of the markka's exchange rate tends to curb inflationary pressures in the export sector, long-term interest rates have fallen only slightly. Although there are several reasons for the high level of interest rates, this development implies that inflation expectations are adjusting only slowly to the appreciation of the markka. The high wage demands put forward by unions in the course of the autumn have accentuated this tendency. Uncertainty has also been increased by the fact that next year's budget is still not finalized. Interest rates have also been pushed up by movements in international interest rates and by the sensitivity caused by the thinness of do-6 mestic markets.

yield Consequently, the curve has remained steep and interest rate differentials vis-àvis long-term international rates have remained wide. The yield on ten-year government bonds was 10.3 per cent at the end of November. In the September-November period, the yield was still 2.5-3 percentage points higher than the corresponding yield in Germany. The level of long-term real interest rates is therefore still high compared with developments in prices.

The Bank of Finland did not consider it possible to lower short-term interest rates to any significant extent. The tender rate, which is the key interest rate from the point of view of monetary policy, was about 5.1 per cent in the September-November period, ie at a somewhat lower level than in the preceding months. When signs of an acceleration in the rise in costs strengthened, the Bank of Finland raised the tender rate to 5.5 per cent on 9 December. The one-month HELIBOR. which is the rate which is most effected by the Bank of Finland's operations, remained almost unchanged at about 5 per cent from September onwards before rising to 5.5 per cent along with the rise in the tender rate. The three-month and twelve-month rates declined somewhat in the September-November period, especially the twelve-month rate, which fell by 0.7 percentage point. At the end of November, the threemonth HELIBOR stood at 5.3 per cent and the twelve-month HELIBOR at 6.8 per cent.

Since the interest rate disturbances in August, expectations of rises in the HELIBOR rates have eased, but forward rate agreements imply that expectations are still rising. Implied forward rates indicate that, at the end of November, three-month interest rates were expected to be about 2 percentage points higher in six months' time. However, this estimate differs from data obtained from various surveys. For instance, a survey of companies carried out for the Bank of Finland, the Confederation of Finnish Industry and Employers and the Ministry of Trade and Industry indicates that the three-month HELIBOR was expected to be at around 6 per cent in October 1995, ie lower than implied forward rates.

LIQUIDITY ABUNDANT, OUTSTANDING LENDING HAS DECLINED

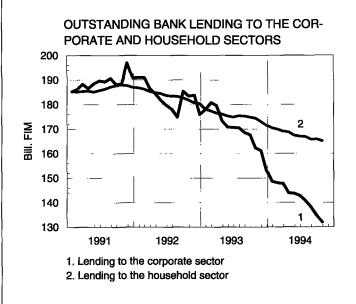
Liquidity in the money market has remained abundant, albeit somewhat less so than it was last summer. The Bank of Finland has, for the most part, only sterilized the liquidity deriving from the government's foreign borrowing. Liquidity has also been good in the economy more widely, and especially companies' liquidity has grown along with the improvement in their financial position. The amount of narrow money (M1), which comprises currency held by the public plus deposits in cheque and transaction accounts, was 12 per cent higher in September-October than in the same period in 1993. The broader monetary aggregates, M2 and M3, registered growth of 5 per cent and 6 per cent, respectively.

The outstanding amount of bank lending has continued to decrease, even when allowance is made for loan loss write-offs and the fall in markka values of foreign currency loans due to the markka's appreciation. Outstanding lending in the form of the lending back of funds from the TEL occupational pension scheme stopped declining in the third quarter, but the total amount of lending to the corporate sector by occupational pension institutions has declined further. Weak demand for loans may also have contributed to a fall in the average interest rate on new bank loans to both companies and households in the September-October period. In October, the average interest rate on new housing loans was 8.6 per cent, on consumer loans 9.7 per cent and on corporate loans 6.9 per cent.

INFLATION PROSPECTS AND MONETARY POLICY

The target set by the Bank of Finland in February 1993 is to stabilize the rate of underlying inflation permanently at 2 per cent beginning in 1995. Even if the target level is maintained, changes in prices will fluctuate on either side of this level because of temporary disturbances of various kinds. From the standpoint of monetary policy implementation, it is essential that the trend of prices does not diverge from the target.

It seems likely that price developments will remain subdued in the next few months. It is estimated that, as a result of Finland's membership of the European Union, inflation will slow by more than one percentage point next year from what it would otherwise be. The effects of EU membership on different price indices are dealt with in more detail in the box at the end of this article. EU membership will mean lower food prices but as indirect taxes will increase at the same time the annual change in consumer prices is likely to remain at about 2 per cent. By CHART 4.



contrast, underlying inflation, which will not be affected by the increase in indirect taxes, will fall significantly at the turn of the year. This, however, will be a one-off fall that will not affect the rate of change in prices, ie the inflation trend, after the turn of the year, unless it has a curbing effect on wage demands and wage increases and thus causes a permanent lowering of the rate of increase in costs.

Although the immediate inflationary pressures are subdued, the prospects are not devoid of problems. According to surveys, the inflation expectations of households are low, but companies seem to expect inflation to accelerate somewhat. The surveys do not provide an accurate measure of the expected inflation rate, however, Moreover, the surveys that are currently available were conducted before the marked strengthening of the markka and before the current round of wage negotiations got under way. According to the survey of companies carried out for the Bank of Finland, the Confederation of Finnish Industry and Employers and the Ministry of Trade and Industry in Septem-

ber-October, consumer price inflation is expected to accelerate to some extent within the next twelve months, but to remain at about 23/4 per cent. In some sectors of manufacturing and in the construction sector, producer prices are expected to rise at a more rapid rate. In the export industries, expectations are based, among other things, on high capacity utilization rates. According to the figures released by Statistics Finland, the capacity utilization rate for the whole manufacturing sector was exceptionally high (88 per cent) in September and that of the forest industries as high as 95 per cent. Capacity utilization rates are particularly high in the paper and basic metals industries. Other sectors also have strong expectations concerning future increases in export prices; the paper industry, for instance, has released details of the price increases it hopes to push through next year. Rapidly improving profitability, together with capacity constraints, will increase the risk of rising costs. This is already evident in the recent developments in stumpage prices and in this autumn's high wage demands.

Although unions in the domestic sector have demanded. and to some extent obtained, large pay increases, the worst potential sources of inflation are to be found in the export sector, even after the appreciation of the markka. A stronger markka will certainly have a restraining effect on inflation, but there is now a clearly greater risk that costs could rise in a way that would fuel inflation and reverse the favourable trends in prices in the latter part of 1995. It was for this reason that the Bank of Finland raised the tender rate from 5.0 per cent to 5.5 per cent on 9 December. The Board of the Bank also proposed an increase in the base rate, but the Parliamentary Supervisory Board did not accept the proposal. Though the base rate has retained some of its value as a signal, the tender rate is nowadays far more important from the point of view of monetary policy.

Companies must prepare to maintain their competitiveness over the long term. Under a floating exchange rate regime, the appreciation of the markka reduces companies' ability to pay factor incomes in an economic upswing. A stronger markka also contributes to the recovery of the domestic sector by, for instance, lowering import prices and increasing purchasing power. The more effective the appreciation of the markka is in keeping inflationary pressures in check, the less upward pressure there will be on interest rates.

9 December 1994

IMPACT OF EU MEMBERSHIP ON CONSUMER PRICES AND THE INDICATOR OF UNDERLYING INFLATION

When Finland becomes a member of the European Union, agricultural producer prices in Finland will be lowered to the same level as producer prices in the European Union. The reduction in producer prices and increasing import competition are also likely to have a rapid effect on consumer food prices. As any losses arising from 1994 output that remains in stock after the end of the year will be compensated against a receipt, it may be assumed that the price reductions will pass through the processing chain to consumer prices very quickly. On the other hand, prices of food imports from countries outside the EU will become more expensive on account of the EU's customs duties.

With Finland's membership of the EU, indirect taxes and subsidies on agricultural products and food will be changed; producers will to an increasing extent receive income subsidies instead of price supports. Liability for VAT will be extended to cover agricultural producers. As a result of these changes, costs in the food processing industry will fall, but tax reliefs – the most important being the primary product allowance – will be abolished. The removal of the primary product allowance for foodstuffs will lessen the magnitude of the fall in consumer prices. On the other hand, the VAT rate on food will be lowered from 22 per cent to 17 per cent at the beginning of 1995.

The Consumer Research Centre has estimated that the overall net effect of the reduction in producer prices and changes in taxation is that the decrease in consumer food prices will amount to 9.5 per cent on average in the initial months of 1995. This estimate ignores the effects on food prices of all factors other than EU membership. This alone implies that the level of the consumer price index will fall by more than 1 per cent. However, the beginning of 1995 will also see an increase in tobacco and fuel taxes and some services that have been tax-exempt will become subject to VAT. These factors are estimated to raise the consumer price index by just under 1 per cent at the beginning of the year. Overall, there will be only a slight fall in the consumer price index in the early months of 1995 compared with its level at the end of 1994.

The increases in indirect taxes and decreases in subsidies are not, however, included in the indicator of underlying inflation, where the fall in consumer prices of food will be evident as a discrete downward step. The indicator of underlying inflation is calculated by removing the effects of taxes, subsidies and housing-related capital costs from the consumer price index. Consequently, the gap between the rates of inflation measured by the consumer price index and the indicator of underlying inflation widens when developments in 1995 are compared with those in 1994.

8

ELECTRONIC CASH

by **Tom Kokkola,** M Sc Pol and **Ralf Pauli,** Adviser to the Board Financial Markets Department Bank of Finland

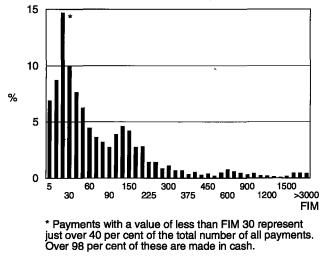
raditional payment instruments used by the general public comprise cash, cheques and various debit and other payment cards. The latest payment instrument to emerge is the multi-purpose prepaid card, which outwardly resembles a debit card or some other payment card. The multi-purpose prepaid card has purchasing power, electronic cash, embedded in it. This feature distinguishes it from debit and other payment cards, which are instruments which the cardholder can use to identify himself and to authorize an instruction to debit his account for a certain amount and to credit this amount to the beneficiary of the payment. Consequently, electronic cash is comparable to conventional cash, notes and coin, in many respects. Because the money embedded in the card is in electronic form, the multi-purpose prepaid card is often referred to as an electronic purse.

Though the development and use of electronic cash are still in their infancy, it is clear that electronic cash is here to stay. It will supplement the use of notes and coin for low-value payments. Because electronic cash possesses the characteristics of conventional money, the monetary authority, ie the central bank, needs to formulate its views on the new payment instrument.

DEVELOPMENT OF PAYMENT TECHNOLOGY

Payment instruments are the result of a long development process the driving forces of which are technical and economic efficiency. Up till now, payment technology has not CHART 1.

FREQUENCY DISTRIBUTION OF ALL PAYMENTS MADE BY HOUSEHOLDS USING DIFFERENT PAYMENT INSTRUMENTS BY VALUE OF TRANSACTION, PER CENT



Source: survey made by the Bank of Finland; see Bank of Finland Bulletin No. 2/1994.

been able to offer a cost-effective alternative for payments of very small value. The bulk of payments by households are low-value transactions made in cash and consequently cash has continued to play a prominent role in the payment system (Chart 1). Because the handling costs associated with low-value payments are considerable, it has been endeavoured to develop alternative methods of payment for such transactions.

The drawback of traditional payment instruments linked to bank deposits, such as cheques and debit cards, is the data transmission, checking and other handling costs associated with their use. The shift from paper vouchers to electronic data processing has lowered these costs but it seems unlikely that transaction costs could be further reduced to the extent that the processing of low-value transactions would become cost-effective. For this reason, the minimum limit for eg debit card payments has been set at FIM 30 in Finland.

From single payments to disposable prepaid cards

A simple way of reducing the costs involved in processing low-value payments is to 'collect and bundle up' a large number of individual transactions, whereupon the bundle can be processed as one transaction. The disposable prepaid card was the first payment instru- 9 ment based on data technology to apply this principle. In fact, it has radically reduced data transmission and proven to be competitive, particularly for lowvalue payments.

Disposable prepaid cards function as follows: the customer purchases a card, at nominal value, which has been loaded in advance with given purchasing value of, say, FIM 50 consisting of 50 'payment units' of FIM 1 each. When the customer uses the card, these 'payment units' are drawn down one at a time. At best, the card issuer only collects information on the value to which customers have used prepaid services on the basis of payment transactions. This data does not need any further processing as the card issuer has received the related payment in advance. In other words, even though the customer could use the card for as many as 50 individual transactions, only one actual payment transaction is involved.

It is fairly easy to identify the applications where prepaid cards offer the greatest potential for savings. Typically, the party issuing the card is a telephone company, public transport authority etc. which receives a large amount of lowvalue payments, often in coins. A payment method based on payment in advance is no novel thing as such, as various prepaid multi-journey and season tickets have been used for a long time on buses, for instance. But these transactions involve payments (tickets) of equal value. In this article we focus on a payment instrument that is particularly suitable for making individual payments of different values.

From single-purpose to multipurpose prepaid cards

Disposable prepaid cards have for the most part been used in 'closed' systems, where the card issuer and recipient of payments are one and the 10 same party (eg a telephone company). Thus their importance from the point of view of the payment system as a whole has been rather limited. Their range of uses has been restricted because magnetic stripe technology, which largely for cost reasons is widely used in prepaid cards, involves security risks. Thanks to recent technological advances and lower component prices, the necessary conditions now exist for the widespread introduction of cards based on microprocessor technology (chip cards).

Cards based on the new technology can be divided into two main groups according to their technical properties: memory cards and chip cards. A memory card only has a memory component and is mainly used in the same way as 'traditional' disposable prepaid cards. A smart card is far more advanced since, in addition to a memory component, it is capable of logical data processing, which is the feature on which its security and versatility are based.

Because of their security, chip cards can also be used in an 'open' system, ie in a system in which the same card can be used to pay for goods or services provided by **several different** enterprises, eg public telephones, parking and public transport. These cards are called **multipurpose prepaid cards** and the purchasing power embedded in them **electronic cash**.

From payment units to electronic cash

Regardless of what technology the disposable prepaid card is based on, it suffers from the drawback that it is useless, ie valueless, once all the payment units it contains have been used up. Thus there are good grounds for introducing a card which can be 'recharged' with new purchasing power, ie **a reloadable prepaid card**, also known as the **electronic purse**. It differs from the prepaid card in two respects: new purchasing power of a freely selected amount can be loaded in the card, and, the amount of purchasing power is expressed as an exact (markka and penni) balance instead of a certain number of payment units. In connection with a payment transaction, the balance on the payer's card is reduced and that of the payee increases by the corresponding amount.

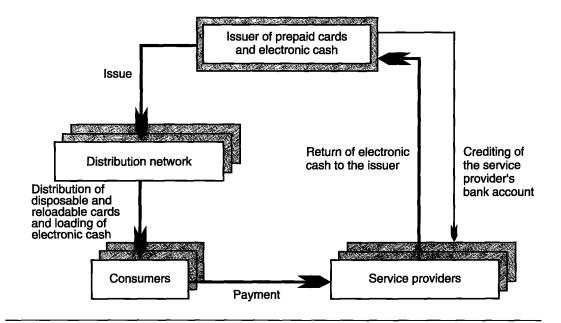
Thus there is a fundamental difference between the purchasing power embedded in a card used in a closed system and that embedded in a card used in an open system: the single-purpose prepaid card does not contain money as such but rather functions as a data transmission medium: the multipurpose prepaid card contains purchasing power - electronic cash - which can with certain reservations be compared to money, in particular as it can be used for paying for several different services and goods. In an extensive open system, electronic cash is - to the cardholder - like conventional cash in electronic form. This feature is further underlined by the fact that the card can be reloaded with new purchasing power (cf withdrawing cash from a bank account and keeping it in a wallet).

Thus, with the widespread introduction of electronic cash. traditional cash will gain a serious rival, particularly as far as low-value payments are concerned. In an open system, the handling of electronic cash can be viewed as the 'electronic handling' of notes and coin. An additional advantage is that the recipient of payments does not need to make up his day's cash, sort it and transport all the notes and coin to the bank. Instead, electronic money accumulates automatically as a cumulative total for the day (one item), which can be transmitted by data communications links for crediting to the recipient's bank account.

In addition to a vast range of self-service applications, electronic cash has potential applications in the service and public

CHART 2.

PARTICIPANTS IN AN OPEN SYSTEM AND CIRCULATION OF ELECTRONIC CASH



sectors and in retail trade. Electronic cash will replace mainly conventional cash, and coins in particular. As holding money is generally considered to involve certain risks, eg of being lost or stolen, electronic cash is unlikely to replace bank and credit card payments to any major extent. Nor is it likely to replace funds transfers between bank accounts.

Structure of the electronic cash system

The parties in an open system are the issuer and distributors of prepaid cards and electronic cash, consumers and the corporate entities accepting electronic cash, ie service providers (Chart 2). Electronic cash passes from the issuer through the distribution network to consumers, who use the cards to make payments to service providers. The service provider then returns the electronic cash it has received to the issuer, who credits the bank account of the former. A precondition for the operation of such a system is a cooperation agreement between the issuer of electronic cash and distributors and service providers, as well as a secure and reliable data transmission and processing system for the distribution, use and return of electronic cash.

Finland in the vanguard of development

In autumn 1992, a company called Toimiraha Oy was established as a subsidiary of Setec Oy (previously the Bank of Finland's Security Printing House). The aim was to institute a Finnish system of electronic cash based on prepaid cards and intended for low-value payments. The company's task is to implement and administer a secure, open electronic cash system based on prepaid cards. The system maintained by Toimiraha Oy is called Avant.

Toimiraha Oy is in charge of the maintenance of the Avant system and the issue of electronic cash. In addition to efficiency, special attention has been paid to the security and reliability of the system. The system is based on 'security modules' incorporated in loading points, cards and card readers. Electronic cash can only be transferred between two security modules which recognize and accept each other and only from the issuer to loading devices, from loading devices to cards, from cards to service providers and from service providers back to the issuer.

Thus the Avant system applies the principle that electronic cash used to pay for services is always returned to the issuer. ie it has a 'closed circulation' (Chart 2). This makes it far easier to monitor the correctness of the amount of electronic cash in circulation than in a system based on open circulation, in which electronic cash can be freely transferred from one party to another without being returned to the issuer in between. In addition, the same principles are applied in the manufacture 11 and destruction of electronic cash as for notes, ie these functions are centralized at one very closely supervised centre.

At present, the Avant system functions on the basis of memory cards, ie disposable prepaid cards, for use mainly in public telephones of different telephone companies. Reloadable prepaid cards were introduced in February 1994 in connection with the inauguration of a new parking system based on electronic cash. The city of Helsinki was the first municipality to start using this system. The system is currently being upgraded in order to allow reloadable cards to be used in all outlets connected to the system. In addition to public telephones and parking, the system is currently used for certain public transport and postal service payments.

By the end of November 1994, some 436 000 disposable Avant cards had been sold. In addition, an estimated 7500 loadable cards will be sold in the course of 1994. At the end of November, there were 70 loading points for electronic cash and the average value of a loading transaction was FIM 233. Prepaid cards are accepted in more than 10 000 outlets, an estimated 6000 of which are parking meters. The number of payments effected through the system is growing rapidly. In October, there were some 240 000 transactions. For the operations to be profitable, the system requires an annual volume of FIM1 billion, a level which it should be possible to attain within a few years, given the scale of business covered by cooperation agreements already concluded by Toimiraha Oy.

Developments in other countries

Internationally, the technical and psychological readiness for the introduction of electronic cash systems seems to be growing rapidly. New projects are regularly being reported all 12 over the world. However, the technical implementation and operating principles of these systems differ from country to country. It is clear that the electronic purse is only at the beginning of its life cycle and thus convergence towards some kind of 'global standard system' has not yet occurred.

Only a few countries aim at setting up one open national electronic purse system. In addition to Finland, these countries include Portugal, Spain, Denmark and Belgium. Besides Finland's Avant system, the most advanced systems are the Danmønt system in Denmark and the MEP system in Portugal. These three systems are the only ones where widespread introduction has already started. Pilot projects are under way in eg Belgium, Spain, Singapore, Taiwan, the USA and South Africa.

ELECTRONIC CASH AND THE CENTRAL BANK

Electronic cash resembles traditional cash in many ways. It is non-interest-bearing in the same way as banknotes and coin, the debt relation between the buyer and the seller is settled at the time of payment and the paver does not need to reveal his identity. Thus the method is anonymous in the same way as traditional cash payments. In addition, the risks attached to the use of electronic cash are the same as those of traditional money. If the card is lost or stolen, its holder loses the remaining amount of money.

But from the point of view of the service provider, ie the receiver of electronic cash, the analogy with traditional cash is not quite so close. Even though the buyer finally discharges his debt when he transfers purchasing power to the seller, the seller is unable to use the electronic cash he receives directly to pay for his own purchases. Rather, the seller must first present his claim to the issuer of electronic cash, who then credits the seller's account. One of the key characteristics of traditional money is the fact that the seller can immediately reuse the money he receives in connection with a payment. Although electronic cash could be assigned this characteristic, it is not desirable at this stage for security reasons. Monitoring the correctness of the amount of money in circulation is easier when money is always returned to the operator of the electronic cash scheme after use.

There is another important difference in comparison with traditional money. Accepting payments made using electronic cash requires a special reading device. It is therefore difficult to imagine that electronic cash would entail a statutory obligation to accept it in settlement of a debt. The statutory obligation to accept is a key feature of legal tender in all countries. In addition to universal usability, the statutory obligation to accept imposes especially heavy demands on the legal safeguards of the individual. The recipient must be able to rely on the authenticity of money. It must be possible to define unambiguous characteristics for money and apply unambiguous verification methods. This is difficult when we are talking about money in an immaterial, electronic form.

Even though the new payment instrument offers an opportunity for profound reflection on the ultimate essence of money, electronic cash does not comply with legal tender as defined in Finland's Currency Act. Still, as the authority in charge of currency supply and payment systems, the Bank cannot simply be indifferent to electronic cash and its development. Rather, the Bank considers that there are good grounds for it to actively participate in the development of the new payment instrument. By so doing, it wishes to ensure that electronic cash develops into a reliable and efficient payment instrument.

The authorities' responsibility for the reliability of the system

is particularly great where payment instruments suited for widespread use by the general public are concerned. Since, moreover, the development of a totally new system which transfers abstract purchasing power is involved, the central bank considers it necessary that the introduction of this payment instrument should be supervised. An additional feature of the electronic cash system is that costs arising from malfunctions are largely borne by system users and not by the card issuer. A purely commercial approach does not necessarily take adequate account of such costs that may be incurred by other participants. Consequently, supervision by the authority overseeing the public interest is needed one way or another.

Like a banknote, electronic cash is an obligation of the issuer. The amount of debt is equivalent to the amount of electronic cash in circulation. The issuer must be able to meet his obligations under any circumstances. The issuer's inability to honour electronic cash which has been used for payments could undermine the public's confidence not only in electronic purse schemes but also in other card-based systems. Sufficient capital adequacy and liquidity requirements must therefore be imposed upon the issuer. In the same way, a major malfunction could have far-reaching consequences. By taking an active part in the development of the system, the Bank of Finland wanted to ensure the reliability of the system from the very outset. It is frequently the case that it is difficult and expensive to raise the level of security at a later stage, especially where complex data systems are concerned.

The main goal set by the Bank of Finland is that the system should be as comprehensive and universal as possible so as to maximize the potential efficiency gains. In the same vein, the consumer's interests are best served if he can use one card as widely as possible. The Bank of Finland wishes to avoid the unnecessary emergence of several parallel or overlapping card systems in Finland. Thus the Bank of Finland's participation in the development of electronic cash can be regarded as its contribution to establishing the infrastructure required for the new payment instrument.

An important characteristic of electronic cash is that it is, like traditional cash, non-interestbearing, and thus the debt that arises when it is issued is noninterest-bearing. The funds accruing from the issue can be invested in income-generating assets. Where traditional money is concerned, this income is known as seigniorage. It derives from the fact that a central bank can finance its interestbearing assets with non-interest-bearing liabilities. This income constitutes one of the main sources of financing for central banks. The central bank's seigniorage is reduced if electronic cash is issued by some party other than the central bank.

Initially, the reduction in seigniorage gave cause for concern; however, it is now estimated that it will replace cash only to a minor extent even when electronic cash has become an established payment instrument. In addition, the high velocity of electronic cash and the fact that it permits exact payments without the need for change reduces the amount of money tied up in electonic purses. In this sense, electronic cash is a more efficient payment instrument than traditional cash. and it is clear that its widespread and coordinated introduction will generate savings at the macroeconomic level.

Similarly, the Bank of Finland takes the view that electronic cash is of no major significance for monetary policy – at least in the present conditions – although it may, in the course of time, lead to changes in the system used for the monitoring and design of monetary policy as part of the overall development of the payment system. As far as liquidity management is concerned, electronic cash can be compared to traditional cash, the amount of which is fully determined by demand. Normal changes in it are not taken into account in liquidity control, which is implemented by influencing the amount of banks' reserves. Of course, the Bank of Finland has to monitor the amount of electronic cash held by the public as part of monitoring the most liquid monetary aggregate (M1) although it does not have any monetary aggregate target as such.

ELECTRONIC CASH AND THE EUROPEAN UNION

It has been evident in many countries that closed systems could easily develop into open systems based on reloadable electronic purses. Microprocessor technology has paved the way for this development and the private sector is interested in exploiting the potential that it offers. Central banks began to be concerned about this development because it touches on issues that are closely related to central banking operations and at the same time involves a completely new type of payment instrument on which they had not previously formulated their views and on which most countries lacked legislation.

In 1993, the central banks of the EU member states decided to conduct a study among themselves on what attitude they should take towards the electronic purse as a new payment instrument and on the implications of this new payment instrument for integration. The aim was to formulate a common position that would serve as a basis for the activities of central banks and authorities. The Council of the European Monetary Institute (EMI) approved a report on prepaid cards prepared by representatives of member states' central banks in spring 1994. The report was published in May so as to inform 13 all those participating or planning to participate in the development process of the EU central banks' views on these issues at an early stage. The report was also intended as a contribution to the discussion on electronic cash.

report approaches The electronic cash more from the point of view of deposit-taking than issuing money. Therefore it is hardly a coincidence that the report is entitled 'Prepaid Cards' and that this term is used throughout the report. In an open system, the monetary value loaded in a prepaid card represents a source of financing to the issuer, the financial implications of which are comparable to deposit-taking; for the cardholder, it represents a claim, 'a deposit in a transaction account', which can be used for payments to undefined third parties.

Bank deposits need special protection by society. Only banks subject to special legislation and supervision are allowed to take deposits. Thus it follows that the same criteria should be applied to issuers of electronic cash as were applied when the right to take deposits was restricted to banks. According to the report, only credit institutions as defined in the Second Banking Coordination Directive should be allowed to issue electronic cash in an open system. An open system here refers to a system in which the same card can be used for paying for the goods or services of a minimum of two corporate entities.

Exceptions to the above principle would be allowed only if for instance the scheme had started to operate before these policy conclusions were reached. In such cases, the conditions would be that the national central bank agrees on a caseby-case basis that the issuer of electronic cash does not need to be a credit institution and, further, that the scheme provides only domestic payment services, that appropriate require-14 ments, in particular with respect to liquidity, are imposed on the issuer and that the issuer is subject to supervision by the authority which supervises credit institutions.

The report emphasizes the importance of the reliability of the prepaid card system. As those accepting electronic cash are unable to detect forgeries by merely looking at the card because of the immaterial form of the purchasing power it contains, the authorities must ensure the security and reliability of the system. Consequently, the report proposes that central banks, as the authority with the overall responsibility for payment systems, should carefully monitor the schemes being developed in their respective countries and demand adequate information on them to ensure that they are reliable.

The report further notes that the views of central banks on electronic cash vary widely. Some central banks would prefer to leave the matter entirely to market forces, while others wish to be involved in the creation of a common technical infrastructure for prepaid cards in their respective countries. Thus the report does not consider electronic cash to be covered by the monetary monopoly of the central bank. Because the reloadable prepaid card is only at an embryonic stage and not all the consequences of its introduction can yet be foreseen, central banks may have to reassess their views on electronic cash in the future, including the sole right to issue it.

CONCLUDING REMARKS

Payment instruments currently in use are the result of a long development process. There is no reason to believe that this process has now come to an end. The importance of electronic cash may turn out to be much greater than envisaged. Ultimately, it is economic efficiency that will determine what course development takes. It was the same considerations that led first to squirrel skins and other commodity money being replaced by coins made of precious metals and later to metallic money being replaced by paper money.

The introduction of paper money was an event of major monetary significance, because paper money, unlike metallic money, had no intrinsic value. In addition, the introduction of paper money led to large cost savings in respect of the transaction costs attached to exchanging goods, as paper money was much easier to handle than metallic money. In principle, the introduction of electronic cash constitutes a far less dramatic change than the introduction of paper money since it really only involves a change in the form of the 'instrument' representing purchasing power. What paper money and electronic cash share in common then is that the monetary status of both is based on the holder's confidence that the issuer will meet his obligations under all circumstances. Thus it is the authorities' responsibility to make sure that the system operates within a reliable framework. With the widespread introduction of electronic cash there is a need for legislation in order to ensure the reliability of issuers of electronic cash. In this respect, Finland is likely to follow developments in the European Union.

On the basis of the above considerations and from the point of view of promoting technical and economic efficiency, the operating principles of electronic cash can be considered to be on a logically sustainable basis. Thus the basic requirements for the widespread introduction of electronic cash already exist.

7 December 1994

THE BANK OF FINLAND TO SIGN THE EMS AGREEMENT WITHOUT ENTRY INTO THE ERM

On 23 November, the Bank of Finland decided to sign the agreements between the central banks of the EU member states on the European Monetary System (EMS) and Short-Term Monetary Support (STMS). The Parliamentary Supervisory Board has granted the Board of the Bank of Finland the borrowing and lending powers required by the agreements.

The agreements will enter into force as of the date Finland's membership of the EU becomes effective.

Joining the EMS is a step that follows from EU membership. The EMS agreement and the related agreement on STMS, which in principle can be used to support the currencies of member countries, have been signed by the central banks of all the EU member states. The purpose of cooperation within the EMS framework is to promote stable developments in monetary and foreign exchange markets. Closer cooperation in monetary policy is also one of the main objectives of Finland's EU membership.

EMS membership carries with it the obligation to exchange information and to consult on monetary and exchange rate policy decisions. In practice, this means that in its own decisions and operations the Bank of Finland will take into account the conditions prevailing in monetary and foreign exchange markets in EU member states and consult with the central banks of these countries.

Joining the EMS will not entail any change in Finland's exchange rate system. The Finnish markka will continue to float for the time being. Hence neither a central rate nor fluctuation margins will be set for the markka. Finland will not participate at this stage in the Exchange Rate Mechanism (ERM) of the EMS or in the related credit facility. Several EU member states do not belong to the EMS and their currencies float in the same way as the markka.

The Bank of Finland also decided to propose to the central banks of the EU member states that the existing bilateral swap agreements with EU central banks be terminated with effect from the date of entry into force of the EMS and STMS agreements.

MONETARY POLICY SEMINAR

On the 25 November, the Bank of Finland held a seminar on the theme 'Monetary Policy in a New Environment' to mark the fiftieth anniversary of the Bretton Woods Institutions. Mr Michel Camdessus, Managing Director of the International Monetary Fund, and Mr Alexandre Lamfalussy, President of the European Monetary Institute, delivered keynote speeches on monetary policy in a global and regional perspective, respectively. Professor Richard Portes from the Centre for Economic Policy Research and professor Alberto Giovannini from Columbia University acted as discussants. The seminar was attended by leading figures in Finnish politics, banking and industry, as well as by representatives of the academic world and government and Bank of Finland officials.

SUPPLEMENTARY BUDGET

The third supplementary budget for 1994 was approved by Parliament in December. It provides for a FIM 3.4 billion increase in budgeted central government expenditure. There are major increases in outlays on non-discretionary items such as unemployment benefits and agricultural export subsidies as well as in outlays on defence equipment. An additional FIM 0.9 billion is needed for unemployment benefits, mainly because of a higher-than-expected number of long-term unemployed. A sum of FIM 0.6 billion has been earmarked for discretionary programmes supporting employment. In addition, budgeted outlays on certain nondiscretionary items, eg agricultural income support, sickness and national pension insurance benefits, have been revised downwards by a total of FIM 1.1 billion. A special capital investment fund with an initial capital of FIM 0.3 billion is to be set up to increase the availability of capital to small and medium-sized companies. A sum of FIM 0.5 billion has been appropriated for the purchase of defence equipment.

The supplementary budget provides for a net increase of FIM 0.2 billion in tax revenue. Miscellaneous revenue and capital gains are budgeted to increase by a total of FIM 2.6 billion. The rest of the supplementary budget, FIM 0.5 billion, will be financed by additional borrowing. Budgeted expenditure for 1994 is now set at FIM 199.9 billion. When extrabudgetary funds are included, expenditure for the entire central government sector in 1994 is estimated 15 at FIM 201.8 billion and the net financing requirement at FIM 67 billion.

pared by the Bank of Finland's Unit for Eastern European Economies, has appeared in the Bank of Finland Publication Series A (A:91), Helsinki 1994, 138 pp., ISBN 951-686-420-1, ISSN 0355-6034.

The publication offers a survey of the economic conditions in the Baltic states and the current phase of their transition to a market economy. Besides the economic situation, other key issues include the development of monetary and financial systems and fiscal policy in the Baltic states, since stabilization of monetary conditions is a basic requisite for a successful economic transition. The structural changes necessary for the transition to a market economy are explored from the point of view of the private sector.

PUBLICATION OF THE BANK OF FINLAND

The publication 'The Baltic Economies in Transition', pre-

MEASURES CONCERNING MONETARY AND FOREIGN EXCHANGE POLICY AND THE FINANCIAL MARKETS

1993

DECEMBER

Base rate.The Parliamentary Supervisory Board lowers the Bank of Finland's base rate from 6.0 per cent to 5.5 per cent with effect from 1 December.

Collateral requirements for banks' intra-day and liquid-

ity credit. The Bank of Finland specifies the collateral requirements for banks' liquidity credit and intra-day credit with effect from 1 December. The intra-day overdraft limits introduced on banks' current accounts on 1 March 1993 become permanent and liquidity credit must always be fully collateralized. Banks which fulfil the criteria for access to central bank liquidity credit are required to deposit collateral equivalent to 25 per cent of their overdraft limits whereas other banks are required to deposit collateral for the full amount of their limits.

Support to Skopbank. On 22 December, the Government grants capital support to Skopbank by purchasing preferred capital certificates issued by Skopbank to the total value of FIM 350 million.

1994

JANUARY

Commencement of trade in bond forwards. In accordance with an agreement concluded between the Bank of Finland and the primary dealers, the latter begin trading in markka-denominated bond forward contracts on 24 January.

FEBRUARY

Base rate. The Parliamentary Supervisory Board lowers the Bank of Finland's base rate from 5.5 per cent to 5.25 per cent with effect from 1 February.

SEPTEMBER

Increase in the capital of the asset management company Arsenal Ltd. On 8 September, the Government decides to raise the share capital of the asset management company Arsenal Ltd by FIM 6 billion. The capital injection is necessary to cover losses incurred during the year.

NOVEMBER

Banks' access to the Bank of Finland's current account and liquidity credit facilities. At the beginning of November, the Bank of Finland modifies the conditions governing access by banks and other credit institutions to current account and liquidity credit facilities at the central bank. In addition, the partial collateralization requirement previously imposed on intra-day overdraft limits is replaced by the requirement of full collateralization.

Tax-exempt deposits. On 18 November, Parliament approves an amendment of the law on the tax relief of deposits and bonds whereby the tax-exempt status of 24-month deposits is extended to apply to deposits made up to the end of 1995.

The Bank of Finland decides to sign the EMS agreement without entry into the ERM. On 23 November, the Bank of Finland decides to sign the agreements between the central banks of the EU member states on the European Monetary System (EMS) and Short-Term Monetary Support (STMS). The agreements will enter into force as of the date Finland's membership of the EU becomes effective. The Board of the Bank of Finland also decides to propose to the central banks of the EU member states that the existing bilateral swap agreements with EU central banks be terminated with effect from the date of entry into force of the EMS and STMS agreements.

DECEMBER

Tender rate. The Bank of Finland raises its tender rate on 9 December from 5.0 per cent to 5.5 per cent. The tender rate serves as a benchmark for short-term money market rates.

FINLAND IN BRIEF

LAND, CLIMATE AND POPULATION

Finland covers an area of more than 338 000 square kilometres. The total area is slowly increasing because of the steady uplift of the land since the last glacial era. The country shares frontiers with Sweden in the west. Norway in the north and Russia in the east and has a coastline bordered by the Baltic Sea in the south and west. Agricultural land accounts for 8 % of the total area, forest and other wooded land for 69 % and inland waters for 10%. Located between latitudes 60° and 70° north, Finland has warm summers and cold winters. Helsinki on the south coast has an average maximum temperature of 22° C (72° F) in July and -4º C (25º F) in February.

Finland has a population of 5080 100 (31 December 1993) and an average population density of 16.6 per square kilometre. The largest towns are Helsinki (Helsingfors), the capital, with 509 500 inhabitants, Espoo (Esbo) 182 500, Tampere (Tammerfors) 176 600, Vantaa (Vanda) 161 400 and Turku (Åbo)160 500.

There are two official languages: 93.4 % of the population speaks Finnish as its mother tongue and 5.9 % Swedish. There is a small Lapp population in the north. Finnish is a member of the small Finno-Ugrian group of languages, which also includes Estonian and Hungarian.

FORM OF GOVERNMENT

Finland is a parliamentary democracy with a republican constitution. From the twelfth century to 1809 Finland was part of the Kingdom of Sweden. In 1809, Finland was annexed to Russia as an autonomous Grand Duchy with the Tsar as Grand Duke. On 6 December 1917 Finland declared her independence. The republican constitution adopted in 1919 remains essentially unchanged today.

The legislative power of the country is exercised by Parliament and the President of the Republic. The supreme executive power is vested in the President, who is elected for a period of six years. The President for the current term, 1 March 1994 to 1 March 2000, is Mr Martti Ahtisaari.

Parliament, comprising 200 members, is elected by universal suffrage for a period of four years. Following the parliamentary elections of 1991, the seats of the various parties in Parliament are distributed as follows:

Centre Party 55; Social Democratic Party 48; National Coalition Party 40; Left-Wing Alliance 19; Swedish Peo-18 ple's Party 12; The Greens 10; Christian League 8; Rural Party 7; and Liberal Party of Finland 1.

Of the 16 ministerial posts in the present Government appointed in April 1991, 8 are held by the Centre Party, 6 by the National Coalition Party and 2 by the Swedish People's Party. The Prime Minister is Mr Esko Aho of the Centre Party.

Finland is divided into 461 selfgoverning municipalities. Members of the municipal council are elected by universal suffrage for a period of four years.

INTERNATIONAL RELATIONS

Finland became a member of the BIS in 1930, the IMF in 1948, the IBRD in 1948, GATT in 1950, the UN in 1955, the Nordic Council in 1955, the IFC in 1956, IDA in 1960, EFTA in 1961, the ADB in 1966, the OECD in 1969, the IDB in 1977, the AfDB in 1982, the MIGA in 1988, the Council of Europe in 1989 and the EBRD in 1991.

Having abolished most quantitative restrictions on foreign trade in 1957, Finland first took part in European free trade arrangements under the auspices of EFTA in 1961. Imports from the USSR were also progressively freed from customs duties. Finland's free trade agreement with the EEC entered into force in 1974 and agreements for the removal of trade barriers were concluded with several eastern European countries as well. The agreement on the European Economic Area (EEA) between the member countries of EFTA and the European Union came into effect at the beginning of 1994. Finland's negotiations to join the European Union were concluded in spring 1994. The accession treaty was signed in Corfu in June. In autumn 1994, a consultative referendum was held in which the majority of the voters (56.9%) were in favour of membership. The Finnish Parliament ratified the accession treaty in November. The accession treaty will still have to be ratified by each Member State for Finland to become a member of the European Union on 1 January 1995. Citizens of the five Nordic countries, Denmark, Finland, Iceland, Norway and Sweden, have enjoyed a common labour market, a passport union and reciprocal social security benefits since the mid-1950s.

Finland's development cooperation programmes channel assistance via international organizations and, bilaterally, to a number of African, Asian and Latin American countries.

THE ECONOMY

Output and employment. Of the gross domestic product of FIM 418 billion in basic values in 1993, 3 % was generated in agriculture and fishing, 2% in forestry, 26.5 % in industry, 4.5 % in construction, 11 % in trade, restaurants and hotels, 8.5 % in transport and communications, 4 % in finance and insurance, 20.5 % in other private services and 20 % by producers of government services. Of total employment of 2.0 million persons in 1993, 8 % were engaged in primary production, 27 % in industry and construction and 65 % in services.

In 1993, expenditure on the gross domestic product in purchasers' values amounted to FIM 479 billion and was distributed as follows: net exports 5.5 % (exports 33.3 %, imports -27.8 %), gross fixed capital formation 15 %, private consumption 56.5 % and government consumption 23.5 %. Finland's tax ratio (gross taxes including compulsory employment pension contributions relative to GDP) was 47 per cent, which is somewhat below the average for the Nordic countries.

Average annual (compounded) growth of real GDP was 4.7 % in the period 1950–59, 5.0 % in 1960–69, 3.7 % in 1970–79, 3.7 % in 1980–89 and 3.6 % in 1950–93. Finland's GDP per capita in 1993 was USD 16 500.

Foreign trade. OECD countries absorb the bulk of Finnish merchandise exports. In 1989–93, their share was, on average, 78.5 per cent, of which the share of EC countries was 48.4 percentage points and that of EFTA countries 19.5 percentage points. Over the same period, Finland's exports to East European countries (including the Soviet Union) accounted for 12.6 per cent and the rest of the world for 10.7 per cent. The regional distribution of Finland's merchandise imports has been quite similar to that of exports.

In 1993, the share of forest industry products in total merchandise exports was 36 %. the share of metal and engineering products 45 % and the share of other goods 19 %. Raw materials and intermediate goods (incl. crude oil) accounted for 59 % of merchandise imports, fuels for 5 %, investment goods for 15 % and consumption goods for 20 %.

Forest resources. Finland has fairly abundant forest resources, but only limited amounts of other raw materials. The growing stock comprises 1880 million cubic metres, of which 45 % is pine, 37 % spruce and 18 % broad-leaved species, chiefly birch.

The annual growth increment totals 79 million cubic metres and the total drain calculated on the basis of commercial fellings was 38 million cubic metres in 1993.

Energy. In 1993, gross consumption of primary energy amounted to 30 Mtoe, of which industry accounted for 45%, heating for 22%, transportation for 13 % and other purposes for 20 %. The sources of primary energy in 1993 were as follows: oil 28 %, coal 11 %, nuclear power 15 %, hydro-electric power, peat and other indigenous sources 32 %, others 14 %. Compared internationally (1992), Finland's con-sumption of 5.6 toe (OECD definition) per capita was 1.7 times higher than the average in European OECD countries. The self-sufficiency rate (including nuclear power) in Finland was 42 %, as compared with 61 % in western Europe on average.

FINANCE AND BANKING

Currency. Finland has had its own monetary system since 1865. The currency unit is the markka (plural: markkaa), abbreviation FIM, which is divided into 100 pennia (singular: penni). From 1 November 1977 to 7 June 1991 the external value of the markka was officially expressed in terms of a tradeweighted currency index, which was permitted to fluctuate within a prescribed range (from 30 November 1988 the range was 6 percentage points). From 7 June 1991 to 7 September 1992, the markka was pegged to the European Currency Unit, the ECU. The fluctuation margins and the midpoint were set so as to correspond to the fluctuation margins and midpoint of the old currency index. The midpoint was first 4.87580 (FIM/ECU). Owing to the devaluation of the markka on 15 November 1991, the midpoint was increased to 5.55841 and the fluctuation limits to 5.39166 and 5.72516. On 8 September 1992, the Bank of Finland decided to temporarily abandon the limits of the fluctuation range and allow the markka to float. On 13 November 1992, the Government, on the basis of the amended Currency Act, authorized the Bank of Finland to float the markka for an indefinite period.

The Central Bank. The Bank of Finland (Suomen Pankki - Finlands Bank), founded in 1811, operates under the supervision of the Parliamentary Supervisory Board, the nine members of which are entrusted with overall supervision of the Bank and certain specific decisions such as fixing the Bank's base rate and the limits for other rates. The Governor and a maximum of five other Members of the Board are appointed by the President of the Republic. The Board manages all affairs not expressly entrusted to the Parliamentary Supervisory Board, including the terms of banks' central bank finance and open market operations in the money and foreign exchange market. The powers vested in the Bank and its independence of the Government make the Bank of Finland one of the world's stronger central banks. In practice, the Bank iiaises closely with the Government, so as to coordinate economic policy. The Bank of Finland has a head office in Helsinki and 4 branch offices in other towns

Other banks (31 December 1993). Finland has three major groups of deposit banks with a total of about 2 640 offices. There are three big commercial banks with national branch networks and ten smaller ones, one of which is foreign-owned. The commercial banks have a total of 32 foreign branches, subsidiaries and associate banks and 31 representative offices abroad. There are 40 savings banks and 304 cooperative banks with their own extensive branch networks. In addition, foreign banks have three branches and eight representative offices in Finland.

Financial market. Of the total stock of FIM 716 billion in outstanding domestic credit at the end of 1993, 54 % was provided by deposit banks 21 % by insurance companies, 5 % by other private credit institutions and 11 % by the state, local authorities and social security funds. There are no quantitative restrictions or interest rate limitations on lending. Regulation of bank lending rates was progressively relaxed earlier in the 1980s and finally abolished in 1986.

In the money market, 80 % of the instruments, which totalled approximately FIM 189 billion at end-1993, were negotiable instruments such as bank certificates of deposit, commercial paper, Treasury notes and local authority paper. Funds raised through bank trust departments and non-negotiable bank debt instruments make up the bulk of non-negotiable instruments. In its open market operations, the Bank of Finland deals in bank certificates of deposit and also issues its own certificates of deposit.

There are 58 listed companies on the Helsinki Stock Exchange, with a market capitalization value of FIM 136 billion (at end-1993). Domestic bonds and debentures in circulation at end-1993 totalled FIM 190 billion; government bonds made up 39 % of the total. Turnover on the Stock Exchange in 1993 amounted to FIM 106 billion; the share of shares and subscription rights in the total was approximately 44 %.



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TO THE STATISTICAL SECTION

1. THE BALANCE SHEET OF THE BANK OF FINLAND 1.1 THE BALANCE SHEET OF THE BANK OF FINLAND, MILL. FIM

	1993		199		
<u> </u>	31 Dec.	8 Nov.	15 Nov.	23 Nov.	30 Nov.
ASSETS	00 /70			50.000	c . 10 .
Gold and foreign currency claims	33 472	54 141	53 290	53 092	54 184
Gold	2 180	2180	2180	2 180	2 180
Special drawing rights IMF reserve tranche	664 1 747	1276	1 260	1316	1 461 1 388
Convertible currencies	28 882	1 366 49 319	1 339 48 510	1 361 48 234	49 154
Other foreign claims	20 002 5 058	5114	5114	40 234 5 1 1 4	5 1 1 4
Markka subscription to Finland's IMF quota	5 058	5114	5114	5114	5114
Term credit			-	5114	
Claims on financial institutions	8 677	3 069	2 617	1 801	1 586
Liquidity credits	1	-	_	_	_
Certificates of deposit	1844	1 497	1 017	459	441
Securities with repurchase commitments	5 493	472	498	241	51
Term credits	_	_	-	_	-
Bonds	1 101	863	864	864	856
Other claims on financial institutions	238	238	238	238	238
Claims on the public sector	1 788	1 853	1 858	1 861	1 872
Treasury bills	-		-	-	
Loans to the Government Guarantee Fund	-	-	-	-	-
Total coinage	1 788	1 853	1 858	1 861	1 872
Claims on corporations	3 303	3 172	3 166 338	3 162	3 160 331
Financing of domestic deliveries (KTR)	496 2 807	343 2 829	2 829	333 2 829	2 829
Other claims on corporations Other Assets	6 826	2 029 4 688	2 629 4 687	2 629 4 687	4 692
Loans for stabilizing the money market	5 752	4 532	4 532	4 532	4 072
Accrued items	907	- 552	- 552	+ 552	- 502
Other assets	166	156	155	155	160
Valuation account	-	-	233	-	-
Capitalized expenditures and losses due to			200		
safeguarding the stability of the monoy					
market	1 400	1 400	1 400	1 400	1 400
Tetal	60 524	73 437	72 364	71 118	72 008
LIABILITIES Foreign currency liabilities	193	132	95	110	111
Convertible currencies	193	132	95	110	111
Other foreign liabilities	6 189	6 107	6 088	6 1 0 4	6 124
IMF markka accounts	5 058	5114	5114	5114	5114
Allocations of special drawing rights	1 131	994	975	990	1010
Other foreign liabilities	-	-	-	-	-
Notes and coin in circulation	14 994	13 732	13 730	13 706	13 776
Notes	13 442	12 136	12 134	12 108	12 172
Coin	1 552	1 596	1 597	1 598	1 604
Certificates of deposit	14 837	36 948	34 500	35 006	34 406
Liabilities to financial institutions	8 201	8 369	10 427	8 359	8 699
Call money deposits	1 803	1 340	3 397	1 329	2 026
Term deposits	-	-	-	_	-
Minimum reserve deposits	6 398	7 029	7 029	7 029	6 674
Other liabilities to financial institutions	~	0	0	0	0
Liabilities to the public sector	784	129	113	51	51
Cheque accounts	8	1	1	0	0
Deposits of the Government Guarantee Fund	776	128	112	51	51
Other liabilities to the public sector	0.007	-	1 / 10	1 (1 1	1 (07
Liabilities to corporations	2 087	1 640	1618	1611	1 607
Deposits for investment and ship purchase Other liabilities	2 087	1 640 104	1 618 30	1 611 28	1 607 29
Accrued items	627 536	104	30	20	29
Other liabilities	536 92	104	30	- 28	- 29
Valuation account and reserves	92 6 847	511	- 30	28 380	1 440
Capital accounts	5 764	5764	5 764	5 764	5 764
Primary capital	5 000	5 000	5 000	5 000	5 000
Reserve fund	764	764	764	764	764
Profit/loss for the accounting year	~	-	-	-	-
Total	60 524	73 437	72 364	71 118	72 008
					+

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1.2	TIME SERIES FOR THE BALANCE SHEET ITEMS OF THE BANK OF FINLAND,
	MILL FIM

	.L. FIM		<u> </u>	Foreign soc						
End of period -				Public sector						
-	Gold	Special drawing rights	IMF resorve tranche	Convert- ible curren- cies	Foreign exchange reserves (1+2+3+4)	Other claims, not	Net claims (5+6)	Claims	Liabil- ities	Net claims (8-9)
1989	2 179	2 966	3 950	4 18 822	5 22 917	6 - 166	7 22 752	8	9 5 325	10 - 4 188
1990	2 179	700 791	783	33 478	37 232	- 1 273	35 960	1314	1 321	- 4 100
1991	2 180	932	1 1 3 6	29 381	33 629	- 424	33 204	1 375	3	1 372
1992	2 180	564	1 732	25 041	29 517	- 2 998	26 519	2 4 4 6	90	2 356
1993	2 180	664	1 747	28 882	33 473	- 1 324	32 148	1 788	784	1 004
1993										
Nov.	2180	678	1 854	26 375	31 087	- 905	30 182	1 801	649	1 1 5 2
Dec.	2 180	664	1 747	28 882	33 473	– 1 324	32 1 48	1 788	784	1 004
1994	0.100		1 (07	04.450	41 174	1.0.17	00 007	1 700	004	007
Jan.	2180	645	1 697	36 652	41 174	-1347	39 827	1739	904	835
Feb. March	2 180 2 180	657 661	1 676 1 688	42 067 38 117	46 580 42 646	- 1 298 - 1 257	45 282 41 389	1 768 1 793	300 251	1 468 1 542
	2 180	650	1 597	37 197	42 040	- 1 229	41 369	1 828	231	1 789
April May	2180	654	1 591	43 303	47 728	- 1 207	46 521	1 827	61	1 766
June	2 180	650	1 514	48 364	52 708	-1176	51 532	1819	526	1 293
July	2 180	645	1 480	51 329	55 634	- 1 261	54 373	1 823	84	1 739
Aug.	2 180	636	1 447	48 794	53 058	- 1 249	51 809	1 817	71	1 746
Sept.	2 180	618	1 407	48 947	53 153	- 1 178	51 975	1 847	60	1 787
Oct.	2 180	1 249	1 338	48 6 1 0	53 377	- 1 139	52 238	1 864	115	1 749
Nov.	2 180	1 461	1 388	49 154	54 184	- 1 121	53 063	1 872	51	1 821

End of period		Dom	estic financia	i sector		Cor	porate socie			
heund	Term claims on deposit banks, net	Liquidity position of deposit banks'	Minimum reserve deposits of deposit banks [*]	Other claims on financial institu- tions, net	Net claims (11+12+ 13+14)	Claims in the form of special financing	Special deposits and other items, net	Not claims (16+17)	Notes and coin in circu- lation	Out- standing CDs issued by the Bank of Finland
	11	12	13	14	15	16	17	18	19	20
1989	33 230	- 531	- 25 506	5 558	12 751	2 000	- 10 604	- 8 604	13 129	-
1990	9411	- 418	- 17 401	5744	- 2 665	1 477	- 9 724	- 8 247	14 555	_
1991	11 882	- 2 206	- 10 361	5 531	4 846	1 086	- 6 854	- 5 768	14 528	8 880
1992	3 738	- 550	- 13 165	4 572	- 5 405	747	- 2 651	- 1 904	14 508	4 880
1993	7 337	- 1 802	- 6 398	1 339	476	496	720	1216	14 994	14 837
1993										
Nov.	6 951	– 1 373	- 6 476	1 405	507	517	642	1 1 59	15 836	
Dec.	7 337	- 1 802	- 6 398	1 339	476	496	720	1 216	14 994	14 837
1994										
Jan.	4 198	- 889	- 6 393	1 283	- 1 801	482	860	1 342	14 084	
Feb.	1 802	- 426	- 6 346	1 250	- 3 720	466	950	1 416	13 855	
Marci		- 1 083	- 6 276	1 241	- 2 276	449	1 003	1 452	14 194	
April	2 093	- 483	- 6 411	1 220	- 3 581	431	1014	1 445	13 927	
May	3 208	- 485	- 6 360	1 197	- 2 441	413	1 034	1 447	14 164	
June	2 684	- 536	- 6 446	1162	- 3 137	397	1 066	1 463	14 355	-
July	2 488	- 796	- 6 467	1 126	- 3 649	386	1 081	1 467	14 176	
Aug.	4 557	- 2 252	- 6 602	1 120	- 3 177	374	1 104	1 478	13 922	
Sept.	3 485	- 1 421	- 6 550	1173	- 3 313	360	1 124	1 484	13 906	-
Oct.	1 829	- 945	- 7 029	1111	- 5 034	345	1 186	1 531	13 900	
Nov.	492	- 2 026	- 6 674	1 094	- 7 113	331	1 222	1 553	13 776	34 406

¹ Call money claims on deposit banks, net, until 2 July 1992.
 ² Cash reserve deposits prior to 1 July 1993.

2. THE BANK OF FINLAND'S OPERATIONS IN THE MONEY AND FOREIGN EXCHANGE MARKETS AND THE BANKS' FORWARD EXCHANGE POSITION

2.1 BANKS' LIQUIDITY POSITION AT THE BANK OF FINLAND,

2.2 THE BANK OF FINLAND'S MINIMUM RESERVE SYSTEM²

MILL. FIM

Average of daily observations	Call meney deposits	Liquidity credits'	Liquidity position, net' (1-2)
	1	2	3
1989	416	369	47
1990	806	132	674
1991	881	985	- 103
1992	2 103	437	1 666
1993	831	425	407
1993			
Nov.	714	336	378
Dec.	955	103	852
1994			
Jan.	933	105	828
Feb.	767	0	767
March	715	0	715
April	1 275	0	1 275
May	891	16	875
June Julia	1 821 1 014	0	1 821 1 014
July	2 575	0 0	2 575
Aug. Sept.	2 089	0	2 089
Oct.	1 442	0	1 442
Nov.	2 038	Ö	2 038

End	Rese	erve require	Cash	Deposits,	
of period	On liquid deposits, %	On other deposits, %	On domestic dobt capital, %	reserve require- ment, %	mill. FIM
	1	2	3	4	5
1989				9.1	25 506
1990				7.0	17 401
1991				4.0	10 361
1992				5.0	13 165
1993	2.0	1.5	1.0	•	6 398
1993					
Nov.	2.0	1.5	1.0		6 476
Dec.	2.0	1.5	1.0		6 398
1994					
Jan.	2.0	1.5	1.0		6 393
Feb.	2.0	1.5	1.0		6 346
March	2.0	1.5	1.0		6 276
April	2.0	1.5	1.0		6411
May	2.0	1.5	1.0		6 360
June	2.0	1.5	1.0		6 4 4 6
July	2.0	1.5	1.0		6 467
Aug.	2.0	1.5	1.0		6 602
Sept.	2.0	1.5	1.0		6 550
Oct.	2.0	1.5	1.0		7 029
Nov.	2.0	1.5	1.0	-	6 674

Call money credits and call money position until 2 July 1992.

²Cash reserve system prior to 1 July 1993

2.3 THE BANK OF FINLAND'S MONEY MARKET TRANSACTIONS, MILL. FIM

During period	Purchases of monoy market instruments	Sales of monoy market instruments	Matured money market instruments, net	Money market transactions, not (1-2-3)
	1	2	3	4
1989	131 110	3 855	99 245	28 010
1990	163 326	26 379	160 797	- 23 850
1991	109 568	30 380	81 969	- 2 781
1992	76 230	137 940	- 60 417	- 1 293
1993	86 521	146 899	- 50 486	- 9 892
1993				
Nov.	8 310	9 200	- 2 090	1 200
Dec.	9 250	9 690	1 250	- 1 690
1994				
Jan.	5 720	17 000	- 3 130	- 8 150
Feb.	3 940	19 430	- 10 230	- 5 260
March	5 770	22 180	- 21 540	5 1 3 0
April	4 080	17 730	– 13 435	- 215
May	2 000	27 940	- 20 790	- 5 150
June	2 870	32 690	- 24 980	- 4 840
July	2 000	34 770	- 29 180	- 3 590
Aug.	5 140	35 040	- 32 970	3 070
Sept.	590	36 860	- 33 510	- 2 760
Oct.	330	38 290	- 36 210	- 1 750
Nov.	1 630	35 210	- 34 400	820

During	Interventi	on in the foreign exch	Spot	Central	
period	Spot purchases	Spot sales	Forward exchange intervention = change in forward exchange position	transactions related to forward contracts, not	government 's foreign exchange transactions, net
	1	2	3	4	5
1991	35 120	- 69 940	- 14 820	12 820	12 260
1992	20 050	- 70 640	- 1 650	390	45 060
1993	25 1 20	- 45 080	7 460	- 6 910	33 240
1993					
Oct.	2 790	- 100	1 540	- 1 510	2 980
Nov.	2 270	- 70	- 40	-	- 1 170
Dec.	3 720	_	370	- 340	1 430
1994					
Jan.	12 550	-	2 720	- 2 680	- 1 490
Feb.	1 310	- 750	- 270	280	4 670
March	-	- 2 200	-	-	- 1 800
April	-	_	330	- 330	- 700
May	_	- 920	110	- 110	6810
June		- 1 350	-	_	6 360
July	-	- 930	_	-	4 610
Avg.	-	- 4 270	– 2 96 0	2 990	- 530
Sept.	-	<u> </u>	2 420	- 2 340	5 350
Oct.	5110	- 220	5 070	- 5 090	2 280

2.4 THE BANK OF FINLAND'S TRANSACTIONS IN CONVERTIBLE CURRENCIES, MILL. FIM

2.5 FORWARD EXCHANGE CONTRACTS, MILL. FIM

Stock at end			Non-residents' forward								
of period		nish custom innish bank		With foreign customors			With the Total Bank of Finland		customers customers (excl. Finnisk banks)		
	Currency purchases from Finnish customers	Currency sales to Finnish customers	Net (1-2)	Currency purchases from foreign customers	Currency sales to foreign customors	Net (4-5)	Net forward purchases from the Bank of Finland		Currency purchases from Finalsh customers	Currency sales to Finnish customers	Net (9-10)
	1	2	3	4	5	6	7	8	9	10	11
1989	10 531	3 563	6 967	44 885	36 854	8 031	205	15 204		·	
1990	11 609	4 979	6 6 3 1	21 179	11 079	10 100		10 633		55	183
1991	33 004	36 352	- 3 348	40 056	37 505	2 550	8 953	8 1 5 5	1 404	645	759
1992	39 195	32 939	6 256	21 142	32 339	- 11 197	7 133	2 1 9 2	1614	1 929	- 315
1993	38 373	23 721	14 652	14 346	21 895	- 7 548	1 939	9 043	11 632	2 173	9 459
1993											
Oct.	36 25 1	31 071	5 1 7 9	14 92 8	25 313			- 2 912	9 942	2 313	7 629
Nov.	36 988	26 544	10 444	14 010	26 027	- 12 018	2 527	953		1 840	6915
Dec.	38 373	23 721	14 652	14 346	21 895	- 7 548	1 939	9 043	11 632	2 173	9 459
1994											
Jan.	43 162	19 298	23 864	13 803	23 618	- 9 815		14 488		2 622	
Feb.	41 288	16 030	25 258	17 043	23 240	- 6 197		19 550		- • • -	11 639
Marc		16519	26 295	18 003	24 476	- 6 473		20 311	14 280		11 682
April	40 494	15 128	25 366	15 807	22 872	- 7 065		18 436			12 133
May	40 529	13 887	26 643	17 151	25 046	- 7 894		18 749	15 321		11 462
June	41 191	15 124	26 067	18 939	25 421	- 6 481	0	19 586			10739
July	40 536	16619	23 917	17 436	27 166	- 9 730	-	14 187	14 746		10746
Aug.	39 846	19 930	19916	19 572		- 12 464		10 454	14 542		10 807
Sept.	40 197	20 368	19 829	18 637		- 10 624		9 876			10788
Oct.	44 821	19 418	25 403	20 662	30 252	- 9 589	- 4 436	11 378	14 945	2 659	12 286

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3. RATES OF INTEREST 3.1 MONEY MARKET RATES AND RATES APPLIED

BY THE BANK OF FINLAND, PERCENT

Average of daily ob- servations	b- evernight HELIBOR ens rate						Sank of Finland rates	d
		1 meath	3 months	6 months	12 months	Liquidity credit rate'	Call money deposit rate	Base raie
1989 1990 1991 1992 1993	10.21 10.57 14.89 13.32 7.71	2 12.32 13.63 13.64 13.49 7.85	3 12.53 13.99 13.07 13.27 7.73	4 12.61 14.16 12.69 13.08 7.59	5 12.72 14.39 12.53 12.96 7.47	5 13.40 15.00 15.48 14.90 8.95	7 4.00 4.00 4.00 7.41 4.95	8 7.67 8.50 8.50 9.17 6.85
1993 Nov. Dec.	6.76 6.22	6.95 6.16	6.58 5.90	6.23 5.68	5.93 5.52	7.97 8.21	3.97 4.21	6.00 5.50
1994 Jan. Feb. March April May June June July Aug. Sept. Oct. Nov.	5.63 4.52 4.39 4.31 4.29 3.93 4.61 3.91 4.07 4.10 4.30	5.38 4.82 5.01 4.97 5.20 5.17 5.35 5.07 5.07 5.07 5.07	5.19 4.82 4.80 5.13 5.14 5.61 5.46 5.96 5.57 5.39 5.43	5.05 4.88 4.88 5.43 5.46 6.24 6.13 6.77 6.36 5.82 6.05	5.01 5.05 5.12 5.75 5.78 6.86 6.91 7.54 7.25 6.69 6.79	7.44 6.84 6.76 6.99 6.97 7.18 7.17 7.32 7.13 7.08 7.06	3.44 2.76 2.99 2.97 3.18 3.17 3.32 3.13 3.08 3.06	5.50 5.25 5.25 5.25 5.25 5.25 5.25 5.25

¹ Call money credit rate until 2 July 1992.

3.2 THE BANK OF FINLAND'S LIQUIDITY FACILITY

3.3 WEIGHTED EURORATES AND COMMERCIAL ECU INTEREST RATE, PERCENT

The Bank		Liquid-	Liquid-	Call	Average	ECU	3	Commercial ECU
Finland's tender		credit: inter-	crodit: matwr-	depos- its:	obser- — vations		3 months	
FATO, 70		est rato margin, %-points	ity, days	inter- est rate margin, %-points	1020	1 03	2 8.4	3 9.3
1 13.85 7.87	1992 1993	2 +1.00 +2.00	3 7 7	- 3.00 - 2.00	1990 1991 1992 1993	10.5 10.1 10.4 8.0	9.1 8.5 7.8 6.0	10.4 9.9 10.6 8.1
6.97 6.21	1993 Nov. Dec.	+1.00 +2.00	7 7	- 3.00 - 2.00	1993 Nov. Dec.	6.8 6.5	5.4 5.2	7.0 6.5
5.44 4.84 4.76 4.99 5.18 5.17 5.32 5.13 5.08 5.06	1994 Jan. Feb. March Agril May June July Aug. Sept. Oct. Nov.	+2.00 +2.00 +2.00 +2.00 +2.00 +2.00 +2.00 +2.00 +2.00 +2.00	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 2.00 - 2.00	1994 Jan. Fob. March April May June June July Aug. Sept. Oct. Nov.	6.3 6.2 6.7 5.6 5.7 5.8 5.8 5.8 5.8 5.8	5.1 5.2 5.1 5.0 5.0 5.0 5.0 5.2 5.2 5.2 5.2 5.2	6.4 6.3 5.9 6.0 6.0 5.0 5.0 5.9
	13.85 7.87 6.97 6.21 5.44 4.84 4.76 4.99 4.97 5.18 5.17 5.32 5.13 5.08	Finland's tender rate,% 1 13.85 7.87 1993 6.97 6.21 1993 Nov. 9 6.97 6.21 Dec. 1994 Jan. 4.76 4.99 4.97 4.97 4.97 May 5.18 June 5.17 July 5.32 Sept. 5.08 Oct.	of Finland's tender rate,% inter- cest rate mergin, %-points 1 2 13.85 1992 +1.00 7.87 1993 +2.00 6.97 Nov. +1.00 6.21 1993 +2.00 1 1993 +2.00 4.84 Feb. +2.00 4.84 Feb. +2.00 4.99 April +2.00 5.18 June +2.00 5.17 July +2.00 5.13 Sept. +2.00 5.13 Sept. +2.00	of Imland's tender rote,% fry credit: inter- mergin, %-points fry credit: mertur- kry, days 1 2 3 13.85 1992 +1.00 7 7.87 1993 +2.00 7 6.97 Nov. +1.00 7 6.97 1993 +2.00 7 6.97 Jec. +2.00 7 4.84 Feb. +2.00 7 4.84 Feb. +2.00 7 4.99 April +2.00 7 5.18 June +2.00 7 5.13 Sept. +2.00 7 5.13 Oct. +2.00 7	of Imland's tender rate,% ity inter- est rate %-points ity eradit: inter- materin, %-points inter- materin, %-points inter- its: inter- est rate rate margin, %-points 1 2 3 4 13.85 1992 +1.00 7 - 3.00 7.87 1993 +2.00 7 - 3.00 6.97 Nov. +2.00 7 - 2.00 7 6.97 1993 +2.00 7 - 2.00 4.84 Feb. +2.00 7 - 2.00 4.84 Feb. +2.00 7 - 2.00 4.99 April +2.00 7 - 2.00 4.97 March +2.00 7 - 2.00 5.17 July +2.00 7 - 2.00 5.13 Sept. +2.00 7 - 2.00 5.13 Oct. +2.00 7 - 2.00	of Finland's tender fry croatin inter- rate,% fry croatin inter- margin, %-points money croatin margin, %-points of daily money margin, %-points of daily daily inter- rate rate of daily daily money inter- inter- inter- rate of daily daily money inter- inter- rate of daily daily money inter- rate of daily daily money inter- rate of daily daily money margin, %-points of daily daily money inter- rate of daily daily money margin, %-points of daily money margin, %-points of daily daily margin, %-points of daily daily margin, %-points of daily daily margin, %-points of daily margin, %-points of daily daily margin, %-points of daily margin, %-points of daily %-points of daily %-points 13.85 1993 1993 1993 1993 1993 1993 13.85 1994	of Imland's tender fry limiter cest rate "S"-points fry inter- est rate "S"-points fry matter inter- try, days money depos- inter- try, days of depos- inter- try, est rate of depos- inter- try, days of depos- inter- inter- try, days of depos- inter- try, days of depos- inter-try, days of depos- inter-try, days of depos- inter-try, days of depos- inter-try, days of depos- inter-try, days of depos- inter-try, days	of Imland's tender fry credit: inter- rate,% fry credit: inter- margin, %-points fry credit: margin, %-points momey credit: inter- trate rate rate rate rate rate rate rat

5.05 5.15 5.10 5.02 5.01 5.02 01.11.1994 08.11.1994 15.11.1994 24.11.1994 28.11.1994

S6 'July - December.

Average			Londi	ng				Aarikka de	posits and a	other mar	kka fundin	·g
for pe- riod		Ne	w credit	18	Average	Of which:	24- month	36- month	Other tax-	Average rate of	Average rate of	Average rate of
	Cheque account and post- al giro credits	Bills of ex- change	Loans	New Jending, total	rate	Com- mor- cial banks	tax- exempt deposits'	tax- exempt	exempt deposits, max. rate of interest'	interest	interest on other funding	interest on maricka funding
	1	2	3	4	5	6	7	8	9	10	11	12
1989	12.97	13.47	11.58	12.07	10.56	10.40	7.50		4.50	5.67	11.92	7.37
1990	13.24	15.62	13.33	13.85	11.84	11.61	7.50		4.50	6.43	13.55	8.41
1991	13.63	15.88	13.40	13.84	12.08	11.80	7.50		4.50	7.10	13.22	8.97
1992	14.04	15.86	13.32	13.75	12.46	12.13	7.50	8.50	4.50	7.41	12.84	9.14
1993	9.69	13.55	9.40	9.75	10.20	9.92	3.50	4.50	2.00	4.78	8.86	6.15
1993												
Oct.	9.92	12.39	8.66	9.04	9.28	8.97	4.00	5.00	2.50	3.89	7.77	5.24
Nov.	9.51	12.77	8.29	8.64	9.21	8.90	4.00	5.00	2.00	3.71	7.44	5.04
Dec.	8.83	11.55	7.32	7.62	8.85	8.48	3.50	4.50	2.00	3.33	6.94	4.55
1994												
Jan.	8.09	11.25	7.35	7.62	8.58	8.22	3.50	4.50	2.00	3.11	6.41	4.19
Feb.	8.25	11.92	7.14	7.46	8.34	7.97	3.25	4.25	2.00	2.93	5.95	3.92
March	4.99	11.73	6.73	6.78	8.17	7.79	3.25	4.25	2.00	2.88	5.77	3.85
April	7.29	11.68	6.87	7.10	8.12	7.91	3.25	4.25	2.00	2.88	5.79	3.85
May	7.63	11.66	7.18	7.43	8.08	7.87	3.25	4.25	2.00	2.88	5.67	3.86
June	7.19	11.70	7.25	7.44	8.09	7.88	3.25	4.25	2.00	2.89	5.77	3.92
July	8.25	11.76	7.58	7.86	8.14	7.90	3.25	4.25	2.00	3.01	5.85	4.03
Aug.	8.37	11.80	7.81	8.04	8.20	7.97	3.25	4.25	.2.00	3.05	5.98	4.11
Sept.	7.61	11.75	7.66	7.86	8.19	7.96	3.25	4.25	2.00	3.04	5.99	4.11
Oct.	8.26	11.61	7.28	7.49	8.15	7.91	3.25	4.25	2.00	3.05	6.10	4.10

3.4 RATES OF INTEREST APPLIED BY BANKS, PERCENT

¹ End of period.

3.5 YIELDS ON BONDS AND SHARES, PERCENT

Period _		Bonds										
	calcu	nce rates ated by of Finland	gove	cable rament ands	Taxable public issues	Taxfree public issues	Share yield					
-	3 years	5 yéars	5 years	10 years	_							
	1	2	3	4	5	6	7					
989	12.2	12.0	12.1		11.9	8.1	2.7					
1990	13.7	13.5	13.2		13.3	9.2	4.0					
1991	12.3	12.2	11.7	•,	12.6	10.0	3.9					
1992	13.1	13.0	12.0	11.5'	13.8	9.9	3.1					
1993	8.5	8.9	8.2	8.8	10.3	6.6	1.8					
1993												
Oct.	7.1	7.6	6.9	7.7	9.8	5.5	1.5					
Nov.	6.8	7.2	6.5	7.4	9.0	5.3	1.5					
Dec.	6.5	7.0	6.2	7.0	9.2	4.9	1.4					
1994												
Jan.	6.1	6.6	5.8	6.5	7.8	4.7	1.1					
Feb.	6.1	6.6	5.9	6.6	7.8	4.8	1.1					
March	6.6	7.5	6.7	7.5	7.7	4.8	1.2					
April	7.7	8.6	7.6	8.3	7.2	4.8	1.4					
Mary	7.9	8.9	7.9	8.5	7.4	4.8	3.4					
June	9.1	10.0	9.0	9.5	8.6	4.6	1.5					
July	9.7	10.4	9.3	9.9	10.4	6.1	1.5					
Avg.	10.3	11.0	10.0	10.6	8.8	5.2	1.4					
Sept.	10.2	11.0	9.9	10.5	10.3	5.3	1.4					
Oct.	9.5	10.5	9.4	10.1	10.5	6.5	1.5					

¹ November and December only.

4. RATES OF EXCHANGE 4.1 MIDDLE RATES, FIM

Average of daily quo-	New York	Montreal	London	Dublin	Stockholm	Osle	Copen- hagen	Frankfort aM	Amster- dam	Brussels	Zwrich	Paris
tations	1 USD	1 CAD	1 GBP	1 IEP	1 SEK	I NOK	1 DKK	1 DEM	1 NLG	1 BEF	1 CHF	1 FRF
	1	2	3	4	5	6	7	8	9	10	11	12
1989	4.2897	3.624	7.032	6.082	0.6654	0.6213	0.5869	2.2818	2.0226	0.1089	2.6243	0.6725
1990	3.8233	3.277	6.808	6.325	0.6459	0.6110	0.6181	2.3664	2.1002	0.1145	2.7576	0.7024
1991	4.0457	3.533	7.131	6.511	0.6684	0.6236	0.6322	2.4380	2.1634	0.1184	2.8208	0.7169
1992	4.4835	3.706	7.875	7.636	0.7714	0.7222	0.7444	2.8769	2.5552	0.1397	3.2000	0.8486
1993	5.7189	4.434	8.582	8.371	0.7350	0.8059	0.8822	3.4584	3.0787	0.1655	3.8706	1.0096
1993												
Nov.	5.8053	4.411	8.598	8.147	0.7026	0.7856	0.8578	3.4148	3.0428	0.1602	3.8777	0.9825
Dec.	5.7548	4.320	8.578	8.159	0.6887	0.7753	0.8585	3.3645	3.0038	0.1611	3.9282	0.9840
1994												
Jan.	5.6920	4.324	8.496	8.138	0.7001	0.7580	0.8407	3.2662	2.9173	0.1571	3.8683	0.9612
Feb.	5.5838	4.165	8.257	7.930	0.6992	0.7451	0.8245	3.2147	2.8669	0.1560	3.8297	0.9462
March	5.5326	4.057	8.248	7.932	0.6992	0.7530	0.8343	3.2688	2.9089	0.1586	3.8681	0.9591
April	5.4911	3.974	8.139	7.885	0.6965	0.7455	0.8246	3.2336	2.8795	0.1571	3.8174	0.9438
May	5.4072	3.918	8.134	7.956	0.7008	0.7529	0.8335	3.2629	2.9075	0.1585	3.8275	0.9531
June	5.4276	3.925	8.267	8.102	0.6945	0.7660	0.8486	3.3262	2.9676	0.1615	3.9399	0.9737
July	5.2014	3.762	8.036	7.939	0.6695	0.7573	0.8430	3.3120	2.9526	0.1607	3.9249	0.9666
Aug.	5.1384	3.728	7.927	7.826	0.6640	0.7490	0.8310	3.2852	2.9259	0.1594	3.8980	0.9589
Sept.	4.9691	3.669	7.767	7.667	0.6591	0.7303	0.8128	3.2038	2.8578	0.1557	3.8447	0.9367
Oct.	4.6761	3.464	7.506	7.416	0.6440	0.7061	0.7855	3.0745	2.7443	0.1494	3.6959	0.8983
Nov.	4.7172	3.458	7.500	7.385	0.6418	0.7015	0.7833	3.0659	2.7353	0.1490	3.6448	0.8930

Average of daily q u o-	Rome	Vienna	Lisbon	Reykjavik	Madrid	Athens	Tallinn	Tekye	Mei- bourne	ECU Commer- ciai	SDR
tations	1ITL	1 ATS	1 PTE	1 ISK	1 ESP	1 GRD	1 EEK	1 JPY	1 AUD	1 XEU	1 XDR
	13	14	15	16	17	18	19	20	21	22	23
1989	0.00313	0.3242	0.0273	0.0758	0.0362			0.03116	3.398	4.719	5.49536
1990	0.00319	0.3363	0.0268	0.0656	0.0375			0.02647	2.988	4.864	5.18322
1991	0.00326	0.3464	0.0280	0.0684	0.0389	0.022		0.03008	3.152	5.003	5.52771
1992	0.00364	0.4088	0.0332	0.0778	0.0438	0.024	0.4060	0.03546	3.289	5.798	6.31546
1993	0.00364	0.4916	0.0356	0.0846	0.0451	0.025	0.4323	0.05168	3.885	6.685	7.98728
1993											
Nov.	0.00348	0.4856	0.0334	0.0811	0.0423	0.024	0.4268	0.05383	3.861	6.550	8.06368
Dec.	0.00341	0.4785	0.0330	0.0800	0.0410	0.023	0.4206	0.05237	3.874	6.494	7.95965
1994											
Jan.	0.00335	0.4647	0.0323	0.0779	0.0398	0.023	0.4083	0.05109	3.962	6.339	7.81835
Feb.	0.00331	0.4573	0.0318	0.0764	0.0395	0.022	0.4018	0.05251	4.000	6.236	7.74733
March	0.00332	0.4647	0.0318	0.0767	0.0398	0.022	0.4086	0.05264	3.937	6.309	7.75651
April	0.00338	0.4597	0.0317	0.0761	0.0398	0.022	0.4042	0.05310	3.934	6.251	7.71250
May	0.00339	0.4639	0.0316	0.0762	0.0396	0.022	0.4079	0.05215	3.916	6.288	7.65245
June	0.00340	0.4729	0.0321	0.0772	0.0404	0.0221	0.4158	0.05281	3.981	6.398	7.74158
July	0.00332	0.4708	0.0322	0.0759	0.0401	0.0219	0.4140	0.05276	3.821	6.329	7.57829
Aug.	0.00325	0.4669	0.0322	0.0749	0.0396	0.0217	0.4107	0.05147	3.805	6.261	7.47292
Sept.	0.00317	0.4552	0.0314	0.0731	0.0386	0.0211	0.4005	0.05029	3.684	6.113	7.27337
Oct.	0.00302	0.4369	0.0301	0.0697	0.0370	0.0201	0.3843	0.04747	3.452	5.865	6.90651
Nov.	0.00298	0.4355	0.0300	0.0699	0.0368	0.0199	0.3832	0.04813	3.559	5.838	6.93950

Average	Markka value of the ECU	Curr	00		
of daily observa- tions	FIM/ECU	Trade-weighted currency index	Paymonts currency index	MirA index	
	1	2	3	4	
1989	4.73670	98.4	99.1	102.8	
1990	4.85697	97.3	96.8	97.3	
1991	5.00580	101.4	101.4	102.8	
1992	5.80140	116.4	115.7	117.3	
1993	6.69420	132.4	136.1	141.8	
1993					
Nov.	6.55386	130.4	135.3	141.7	
Dec.	6.49606	128.9	133.9	139.8	
1994					
Jan.	6.34072	126.9	131.8	137.7	
Feb.	6.23914	125.6	129.8	136.4	
March	6.31275	126.5	130.2	136.6	
April	6.25477	125.5	129.2	135.8	
May	6.29981	125.9	129.0	135.3	
June	6.41394	127.4	130.3	136.6	
July	6.35263	125.2	127.2	133.6	
Aug.	6.28705	123.8	125.8	131.9	
Sept.	6.13918	121.3	122.7	128.7	
Oct.	5.89314	116.5	117.2	122.6	
Nov.	5.86886	116.3	117.3	122.9	

4.2 MARKKA VALUE OF THE ECU AND CURRENCY INDICES

5. OTHER DOMESTIC FINANCING 5.1 BANK FUNDING FROM THE PUBLIC, MILL. FIM

End of period	Choque and giro deposits	Trans- action deposits	Time deposits	Other deposits	Markka deposits, fotai (1+2+3+4)	Foreign currency deposits	Totul deposits (5+6)	Other funding	Total funding (7+8)
	1	2	3	4	5	6	7	8	9
1989	28 942	85 396	1257	748	240 085	7 358	247 444	35 298	282 742
1990	30 953	96 176	124 9	230	252 058	6818	258 876	38 835	297 711
1991	33 619	86 442	122 126	19615	261 802	13 151	274 953	52 760	327 713
1992	34 832	88 526	114 771	21 218	259 347	14 626	273 973	65 557	339 530
1993	36 379	92 357	112 413	21 766	262 915	14 883	277 798	63 173	340 971
1993									
Sept.	35 312	88 067	105 958	23 259	252 596	16 642	269 239	66 050	335 289
Oct.	35 746	89 439	109 350	22 387	256 922	16 192	273 114	67 314	340 428
Nov.	36 098	87 692	109 769	21 451	255 010	15 799	270 809	64 128	334 937
Dec.	36 379	92 357	112 413	21 766	262 915	14 883	277 798	63 173	340 971
1994									
Jan.	38 657	94 042	108 694	22 740	264 133	14 050	278 183	70115	348 298
Feb.	37 462	96 507	106 185	22 548	262 702	12 324	275 027	68 874	343 901
March	38 058	97 847	105 867	22 734	264 506	13 201	277 708	72 348	350 056
April	38 242	98 146	106 551	22 748	265 687	13 574	279 261	75 636	354 897
May	41 132	97 145	106 163	22 337	266 778	14 281	281 059	75 753	356 811
June	42 094	98 377	105 973	21 679	268 123	14 353	282 476	72 209	354 685
July	43 391	98 775	106 511	21 391	270 067	16517	286 584	70 634	357 218
Aug.	44 503	97 970	107 529	20 969	270 970	14 957	285 927	64 382	350 309
Sept.	40 588	97 976	107 427	20 722	266 712	12 839	279 551	69 158	348 709

5.2 BANK LENDING TO THE PUBLIC, MILL. FIM

Ind of period	Choque account and postal gire credits	Bills of exchange	Loans	Markka Ionding, total (1+2+3)	Foreign currency credits	Total lending (4+5)
	1	2	3	4	5	6
1989	15 270	5 650	257 768	278 688	73 176	351 864
1990	19 152	5 777	260 790	285 720	103 134	388 853
1991	18 037	4712	262 859	285 609	107 714	393 323
1992	16 045	3 335	252 163	271 544	95 168	366 712
1993	14 217	2 223	248 406	264 846	66 93 1	331 777
1993						
Sept.	15 425	2 656	251 667	269 748	79 676	349 424
Oct.	15 094	2 780	251 342	269 216	75 184	344 401
Nov.	14 872	2 664	250 554	268 090	73 810	341 899
Dec.	14 217	2 223	248 406	264 846	66 931	331 777
1994						
Jan.	14 081	2 248	247 259	263 587	64 220	327 807
Feb.	14 120	2 008	247 884	264 012	63 158	327 1 7 0
March	14 125	1 942	247 795	263 862	61 114	324 976
April	13 971	1 759	247 095	262 825	59 077	321 902
May	14 079	1 736	246 531	262 345	58 233	320 578
June	14 139	1 763	245 939	261 841	57 756	319 597
July	14 061	1 733	245 591	261 386	56 128	317 513
Aug.	13 859	1 680	244 474	260 013	53 977	313 990
Sept.	14 068	1 642	243 874	259 584	51 258	310 842

End of	Foreign		Domestic cre	dit	Other			
period	assets, net	Claims on the central government	Claims on the public	Total (2+3)	i tems , net	Μ,	M, (1+4+5)	м,
	1	2	3	4	5	6	7	8
1989	- 59 049	- 18 691	408 344	389 653	- 79 084	124 295	251 519	272 603
1990	- 82 881	- 19 072	453 720	434 648	- 85 385	141 524	266 383	291 045
1991	- 86 555	- 6 5 1 6	470 852	464 336	- 102 540	130 644	275 241	310 924
1992	- 68 099	81	439 937	440 018	- 97 909	134 829	274 011	310 733
1993*	- 25 989	1 848	403 742	405 589	- 100 006	141 759	279 595	322 408
1993*								
Dct.	- 20 713	3 530	419 951	423 482	- 130 352	136 989	272 417	319 050
Nov.	- 23 710	3 430	417 372	420 803	- 125 479	137 095	271 614	312 034
Dec.	- 25 989	1 848	403 742	405 589	- 100 006	141 759	279 595	322 408
1994*								
Jan.	- 23 257	57	399 953	400 01 1	- 96 519	145 301	280 234	328 482
Feb.	18 440	475	397 966	398 440	- 101 379	146 600	278 621	327 591
March	- 19 743	1 101	397 404	398 505	- 97 766	148 907	280 996	333 304
April	- 23 247	3 534	392 075	395 609	- 90 780	148 783	281 582	335 879
May	- 14 545	5 988	390 173	396 160	- 98 989	150 750	282 626	338 847
June	- 6 902	2 034	390 056	392 090	- 100 708	153 365	284 480	338 345
July	- 7 521	- 1 109	387 040	385 931	- 92 150	155 001	286 260	340 445
Aug.	4 260	426	383 805	384 230	- 101 687	154 836	286 804	336 027
Sept.	12 224	- 1 993	374 064	372 071	- 101 574	151 193	282 721	333 572
Oct.						152 548	283 691	335 921

5.3 MONEY SUPPLY AND MONETARY AGGREGATES, MILL.FIM

5.4 LIABILITIES AND ASSETS OF THE CENTRAL GOVERNMENT, MILL. FIM

End of	Foreign curr	oncy-denoi	ninated dob	+	Marki	a-denomin	ated debt	1	Total	Out-	Cash
period	Bonds	Other debt	Total (1+2)	Public bonds	Other iong- term iliabii- ities	Treasury notes and bills	Miscella néous items	Tetal (4+5+6+7)	central govern- mont debt (3+8)	stand- ing lending	funds
	1	2	3	4	5	6	7	8	9	10	11
1989 1990 1991 1992 1993 1993 Oct.	18 505 20 917 38 703 100 244 142 824	4 281 3 876 4 943 6 143 12 753	22 786 24 793 43 646 106 387 155 577 156 993	24 126 23 982 31 018 40 578 71 082 69 251	5 750 8 263 12 208 13 555 16 060	250 5 180 14 762 22 824 23 754		108 359	52 912 57 038 92 052 175 282 265 543 265 352	43 499 48 121 55 165 61 671 64 233 66 435	21 248 23 114 15 956 19 781 36 487 42 816
Nov. Dec.	144 122 142 824	13 020 12 753	157 142 155 577	71 833 71 082	15 313 16 060	22 647 22 824	•		266 935 265 543	64 381 64 233	47 493 36 487
1994 Jan. Feb. April May June July Aug. Sept. Oct.	140 312 148 138 146 940 156 684 163 930 169 523 165 170 167 196 160 626	10 565 9 990 10 891 11 106 11 658 11 952 11 698 12 111 15 042	150 877 158 128 157 831 167 790 175 588 181 475 176 868 179 307 175 668	72 215 74 481 76 001 76 282 77 129 78 286 79 587 82 349 84 786	18 260 18 260 17 541 17 442 16 901 16 891 16 870 16 865 16 865	18 625 19 704 24 915 30 159 28 551	– 5 485 – 5 455	106 608 106 943 108 049 113 535 119 896 119 523 125 273	260 981 264 736 264 774 275 839 289 123 301 371 296 391 304 580 303 498	64 706 65 008 65 808 66 001 65 007 64 437 64 698 65 079	24 095 31 679 18 547 22 405 30 119 41 465 37 525 41 848 39 910

5.5 MARKKA BOND MARKET A) ISSUES, MILL. FIM

During period			By sector			8	y type of log	n	Total . (1+2+3+4+5)	
perioa	Corpo- rations	Financial	Central government	Local	Others	Publi	ic issues	Private placings	(6+7+8)	
	TATIO#5		gevernmen.	Jeren		Taxable	Taxfree	- hierenige	(0+2+0)	
	1	2	3	4	5	6	7	8	9	
1989	4 204	11 022	5717	233	13	11146	2 997	7 046	21 189	
1990	4 640	17 891	4 420	490	1 007	17 234	607	10 607	28 447	
1991	7 277	25 737	11 073	1 320		30160	_	15 247	45 407	
1992	6 984	15 043	12 965	2 674	4	23 858	_	13 812	37 671	
1993*	11 691	12 134	36 512	2 235	63	51 179	-	11 456	62 634	
1993*										
Oct.	410	697	4 859	222	_	5 956	_	232	6 188	
Nov.	989	4 160	2 793	18	50	·7 828	_	182	8 010	
Dec.	477	1 753	600	205	-	2 769	-	266	3 034	
1 994 *										
Jan.	_	2 000	2 2 1 6	45	-	4 261	_		4 261	
Feb.	560	7	2 359	280	-	3 206	-	-	3 206	
March	2 31 1	713	2 555	190	_	5 769	_	_	5 769	
April	100	1 480	942	_		2 522	-	_	2 522	
May	373	2 226	1 348	30	_	3 977	-	_	3 977	
June	500	160	2 673	62	-	3 394	-	-	3 394	
July	_	_	1 171	_	_	1 1 7 1	-	_	1 1 7 1	
Aug.	-	2 1 3 0	2 410	-	_	4 540	-	-	4 540	
Sept.	-	310	4173	_		4 483	_	-	4 483	
0d.	_	940	3 044	_	_	3 984	_	_	3 984	

B) STOCK, MILL. FIM

End of period	By sector					By type of loan			Total (1 + 2 + 2 + 4 + 5)
	Corpo- rations	Financial institutions	Central government	Local government	Others	Public issues		Private placings	(1+2+3+4+5) = (6+7+8)
						Taxable	Taxfree	- hracings	(a+/+e)
	1	2	3	4	5	6	7	8	9
1989 1990 1991 1992 1993*	21 463 23 522 26 632 26 617 32 996	50 216 59 756 76 701 82 319 74 372	29 381 28 812 35 195 44 005 73 682	1 555 1 756 2 766 5 237 6 894	290 1 298 3 726 3 358 2 009	41 162 52 273 76 346 89 534 120 571	27 742 22 970 18 096 13 917 10 391	34 001 39 902 50 578 58 085 58 991	102 906 115 145 145 020 161 536 189 953
1 993* III IV	33 334 32 996	77 791 74 372	67 504 73 682	6 517 6 894	2 018 2 009	113 846 120 571	10 727 10 391	62 591 58 991	187 164 189 953
1 994 * I II III	34 235 33 236 31 117	72 084 71 920 70 899	77 676 78 990 84 211	7 255 7 297 7 134	1 007 964 963	126 390 130 760 135 008	8 898 8 584 7 848	56 969 53 063 51 468	192 258 192 407 194 324

C) TURNOVER, MILL. FIM

During period	Interbank	Between banks and customers		nary dealers' transactions Ichmark government bond	
			Purchases from other primary dealers	Purchases from others	Sales to others
	1	2	3	4	5
1989	6 500	9 660			
1990	5 401	6 058			
1991	3 343	29134			
1992	18 221	58 594	10744	12 156	13 354
1993	45 966	241 273	42 945	95 647	117 489
1993					
Nov.	4 454	28 725	4 069	12 703	12 069
Dec.	6012	26 948	5414	10 765	12 500
1994					
Jan.	8 899	41 502	8 437	17 411	19 133
Feb.	14 265	40 081	12 427	16 883	18 485
March	34 926	56 958	32 256	28 635	28 693
April	24 666	37 825	23 300	17 241	17 960
May	10 588	20 896	9 731	8 753	10 958
June	14 560	20 091	14 132	8 225	11 496
July	5 171	12 950	5 081	4 961	7 745
Aug.	22 933	21 706	22 79 1	10 728	1 0 987
Sept.	12 357	23 278	12 307	9 424	13 922
Oct.	13.493	26 807	13 361	12 045	14 624
Nov.	12 220	22 667	11 742	9818	13 363

5.6 HELSINKI STOCK EXCHANGE

Average of daily obser-					Share	prices				Tu	rnover', m	111. FLM
			HEX	index (28	Dec., 199	0=1000)				Shares	Bonds	Total
vations	All-	By own	ərship			By industr	Υ			and sub- scrip-	and doben- tures	
	index	Re- stricted	Non- re-	Banks and	insur- ance	Manu- factur-		Of which:		tion rights	TUTED	
		SIFICIOU	stricted	financo	and invest- ment	ing	Forest indus- tries	Metai and engi- neer- ring	Con- giom- orates	-19813		
	1	2	3	4	5	6	7	8	9	10		12
1989	1 827	1 850	1 689	1 958	1 528	1818	1 728	1 748	2 061	33 160	7 375	40 536
1990	1 332	1 324	1 393	1 263	1 185	1 376	1 436	1 282	1 474	15 521	4 550	20 071
1991	962	949	1 062	901	898	1 003	1 075	1 076	1 021	6 339	1 315	7 655
1992	772	759	868	425	467	943	1 123	1 206	890	10 277	15 377	25 654
1993	1 240		•	608	644	1 601	1 695	1 749	1 751	46 337	59 977	106 314
1993												
Nov.	1 542			810	771	2 003	2 092	2 155	2 253	4 842	7 153	11 995
Dec.	1 549			773	801	2 003	2114	2 240	2 209	4 810	6 375	11 185
1 994												
Jan.	1 797		•	870	952	2 315	2 357	2 733	2 537	8 781	276	9 057
Feb.	1 917		•	942	1 011	2 462	2 4 1 0	2 982	2 704	6 395	558	6 953
March	1 861		•	824	948	2 422	2 250	2 841	2 792	7 060	334	7 394
April	1815		•	771	914	2 377	2189	2 689	2818	4 849	107	4 956
May	1 839		•	749	862	2 427	2 207	2 723	2 891	4 035	71	4 105
June	1 709		•	676	726	2 271	2113	2 526	2732	3719	49	3 768
July	1 776		•	688	727	2 377	2 253	2 503	2 987	3 891	99	3 990
Aug.	1 877		•	647	759	2 536	2 405	2742	3185	6 594	134	6 728
Sept.	1 908	-	•	652	697	2 601	2 513	2738	3 336	4 856	132	4 988
Oct.	1917		· ·	645	714	2612	2 351	2 657	3512	7 761	216 102	7 977 5 731
Nov.	1 907		• •	604	694	2617	2 207	2 567	3 672	5 629	102	5/31

' During period.

6. BALANCE OF PAYMENTS, FOREIGN LIABILITIES AND ASSETS 6.1 CURRENT ACCOUNT, MILL.FIM

During period	Exports of goods, fob	Trans- port recolpts	Travel receipts	Other services receipts	receipts, total	Exports of goods and services (1+5)	ment	Trans- fers and other income	Current account receipts (6+7+8)	Imports of goods, cif	Trans- pert ex- pendi- ture	Travel ex- pendi- ture	Othor services ex- pendi- ture
	1	2	3	4	5	6	7	8	9	10	11	12	13
1989 1990 1991 1992 1993*	98 265 99 750 91 100 105 809 132 550	8 347 7 508 8 643	4 650 5 044 6 089	6 277 6 081 5 636 7 730 9 379	18 436 19 077 18 189 22 462 26 888	116 701 118 827 109 289 128 272 159 438	10 212 12 739 10 003 6 423 7 624	3 652 4 461 5 336 5 920 6 506	130 565 136 027 124 628 140 614 173 567	104 400 101 967 86 348 93 187 101 559	3 869 4 363 3 974 4 360 5 537	8 969 10 766 11 089 10 962 9 237	8 759 9 503 11 01 1 13 369 17 008
1 992 i II 111 IV	24 783 26 452 24 820 29 754	2 002 2 152 2 323 2 167	1 159 1 493 1 958 1 480	1 702 1 681 1 923 2 424	4 863 5 326 6 203 6 071	29 645 31 778 31 023 35 825	2 301 1 269 1 204 1 649	1 367 1 374 1 480 1 699	33 313 34 421 33 707 39 173	22 698 24 180 20 677 25 632	1 001 1 064 1 119 1 176	2 725 2 813 2 853 2 572	3 422 3 039 3 242 3 666
1 99 3* i II III IV	31 016 32 625 32 116 36 793	2 832	1 763 2 203	2 778 2 281 2 102 2 218	6 495 6 690 7 138 6 565	37 511 39 315 39 253 43 358	2 233 2 125 1 622 1 643	1 470 1 756 1 584 1 695	41 215 43 196 42 460 46 696	25 715 24 818 23 992 27 034	i 279 1 325 1 444 1 489	2 401 2 276 2 242 2 319	4 445 4 015 4 206 4 341
1 994 * / 	34 536 38 519 37 405		1 425 1 740 2 063	2 444 2 172 2 523	6 471 6 835 7 713	41 006 45 354 45 118	1 974 3 673 2 618	1 597 1 496 1 498	44 577 50 523 49 234	24 852 29 488 28 866	1 314 1 483 1 425	1 899 2 036 2 097	4 233 3 974 3 836

	Services expendi- ture, totai (11+12 +13)		ment ex- pendi- ture	fors and other	account	Trade account (1-10)	port	Travel (3-12)	Other services (4-13)	Services account (20+21 +22)	Goods and sorvi- cos account (19+23)	ment income, net (7-16)	Trans- fers and others, not (8-17)	Current account (24+25 +26}= (9-18)
	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1989 1990 1991 1992 1993*	24 632 26 074 28 690	125 996 126 599 112 421 121 878 133 341	30 424	8 967 10 229 10 347	162 540 151 325	4 752 12 622	3 984 3 534 4 283	- 6 117 - 6 044 - 4 873	- 3 422 - 5 374 - 5 639	5 555 7 885 6 228	-7772 - -3132 - 6394 -	- 14 234 - 18 671 - 24 001	- 4 506 - 4 893 - 4 428	- 24 874 - 26 513 - 26 696 - 22 035 - 4 744
1 992 L II III LV	7 148 6 916 7 214 7 413	29 845 31 096 27 891 33 045	8 435 7 400 6 765 7 824	2 381 2 402	41 405 40 877 37 058 43 309	2 085 2 272 4 143 4 122	1 087 1 204	- 1 320 - 895	– 1 720 – 1 358 – 1 319 – 1 241	- 1 590 - 1 011	- 200 682 3 132 2 780		- 1 007 922	- 8 092 - 6 456 - 3 351 - 4 136
1993* V	8 125 7 616 7 892 8 149	33 840 32 434 31 884 35 183	10 137 10 493 6 805 7 145	2 393 2 640	46 785 45 321 41 330 44 876	5 301 7 806 8 124 9 760	1 087 1 322 1 388 1 097	- 512 - 39	– 1 667 – 1 735 – 2 104 – 2 123	- 926 - 755	3 672 6 881 7 369 8 175	- 7 904 - 8 368 - 5 183 - 5 502	- 637	- 5 570 - 2 124 1 131 1 820
1 994* 1 1	7 446 7 494 7 359	32 298 36 982 36 225	9 181 8 523 6 173		44 427 47 728 44 646	9 684 9 031 8 539	1 288 1 439 1 702	- 296	- 1 789 - 1 802 - 1 314	- 976 - 659 354	8 708 8 372 8 893	- 7 207 - 4 850 - 3 555	- 1 351 - 727 - 750	150 2 795 4 588

6.2 CAPITAL AND FINANCIAL ACCOUNT, MILL FIM

During	imports of capital													
period	Direct			Portfolie i	vestmen	}			Otheri	investmen	ıt		Total (1+7+	
	ment in fisland	Shares	Bonds	Of which: markka denomi- nated bonds	Money market instru- ments	Fisan- dal deriva- tives	Tetal (2+3+ 5+6)	Trade credits	Loans	Curren- cy and deposite	Other	Tetai (8+9+ 10+11)	12)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	
1989 1990 1991 1992* 1993*	2 095 3 010 - 997 1 822 4 945	1 309 376 47 397 12 748	13 447 22 280 38 751 39 309 30 353	- 214 1 440 11 786 - 5 312 3 616	1 329 - 923 - 4 511 - 1 791 - 4 382	 	16 085 21 733 34 287 37 915 38 719	1 445 1 156 - 3 987 3 639 4 467	10 807 16 635 7 496 2 5 357		4 696 17 307 - 9 737 - 17 415 - 24 454	17 355 34 372 - 6 098 - 12 084 - 19 977	35 535 59 115 27 192 27 653 23 687	
1992*														
 V	563 74 340 845	199 145 6 47	4 102 13 023 5 474 16 710	- 1 545 114 - 2 712 - 1 169	1 244 - 3 179 - 485 629	 	5 545 9 990 4 995 17 386	385 678 2 755 1 178	111 - 395 16 270	- 1 050 801 828 1 110	952 - 5 471 648 - 13 544	398 - 5 743 4 248 - 10 986	6 506 4 321 9 583 7 244	
1993*														
I H M IV	439 927 631 2 948	1 405 1 515 6 529 3 300	15 542 16 269 2 267 - 3 725	320 3 420 2 523 - 2 646	- 2 314 - 1 348 - 2 755 2 036	 	14 632 16 435 6 041 1 611		7 326 815 - 1 495 - 1 289	901 - 1 268 1 671 - 6 650	- 8 593 - 6 612 - 8 143 - 1 106	1 533 - 7 261 - 8 803 - 5 446	16 604 10 101 - 2 131 - 887	
1 994* I II III	3 664 3 010 2 242	4 389 2 292 5 181	3 196 6 906 16 297	- 944 - 2 244 552	- 2 101 3 074 - 2 036	31 272 - 499	5 515 12 544 18 943	- 852	- 3 980 1 258 - 1 257	772 1 748 964	6 665 - 3 077 - 5 536	2 578 4 420 5 465	11 757 11 134 15 720	

During		Exports of capital												Change
period	Direct		Portfo	lie invest	ment			Othe	- investme	mt		Total (14+	and omis- sions	in contrai bank's
	mont abroad	Shares	Bonds	Money market instru- monts	Finan- cial deri- vative:	(15+16+ 17+18)	Trade credits	Louns	Curren- cy and depo- sits	Other	Total (20+21+ 22+23)	19+24)	310415	assets (in- crease-)
	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1989 1990 1991 1992* 1993*	12 715 10 353 - 501 - 3 372 9 537	264 2 - 369 46 873	84 575 3 321 767	87 1 171 1 499 2 748 1 932		267 1 748 - 1 128 3 115 3 571	567 1 565 - 726 3 634 1 923	5 155 2 953 2 341 3 409 - 839	116 935 1 054 3 745 – 6 063	1 831 - 3 480 6 587 3 259 14 698	7 669 - 1 157 9 256 14 048 9 720	20 650 10 944 9 883 13 790 22 828	5 457 - 6 240 2 012 - 1 008 5 104	4 532 - 15 417 7 375 9 180 - 1 219
1992* I IJ III IV	– 581 – 1 544 – 552 – 695	27 - 19 13 25	155 1 161 - 895 - 100	- 1 490 786	·	273 - 348 - 96 3 286	835 - 314 1 313 1 799	1 229 - 807 553 2 435	2 528 522 2 619 - 1 924	- 4 078 - 439 3 501 4 276	515 - 1 038 7 986 6 586		170 - 1 810 - 4 944 5 577	1 623 1 015 6 051 492
1993* 	985 1 081 - 473 7 944	158 2 77 636	2 823 - 1 095 - 841 - 120	577 972 3 975 494		2 404 - 2 065 3 211 21	1 623 518 - 190 - 28	- 185 - 1 008	- 1 516 247 1 514 - 6 308	15 515 - 3 766 9 514 - 6 564		- 4 171 12 567	1 665 1 464 2 549 2 354	5 586 - 10 684 11 019 - 7 141
1994* 	5 333 4 788 4 385		- 662 - 3 273 - 1 231	- 4 446	- 201 - 27 - 52		1 737		2 612 - 460 - 268	- 5 779 6 181 9 875	- 5 774 6 110 9 060	3 084	- 672	- 10 279 - 10 172 - 3 921

6.3 FINLAND'S INTERNATIONAL INVESTMENT POSITION, MILL FIM

Position						Lie	abilities						
ert ond of	Direct			'ortfolio is	vestment	1			Othe	r investue	eut		Total
period	invest- ment in Finland	Shares	Bonds	Of which markka denomi- nated bonds	instru-	Finan- cial doriva- tivos	Total (2+3+ 5+6)	Trade credits	Loans	Curren- cy and depo- sits	Other		líabilítics (1+7+12)
	1	2	3	4	5	6	7	8	9	10	11	12	13
1989 1990 1991 1992* 1993* 1992 I I II III IV	16 093 18 651 17 443 19 348 24 391 18 027 18 122 18 483 19 348	8 146 5 052 4 149 5 138 30 375 4 279 4 083 3 367 5 138	74 167 95 530 141 055 211 361 265 571 150 644 160 415 184 851 211 361	3 906 6 385 19 036 14 366 27 149 17 366 17 851 15 547 14 366	4 050 23 856 22 079 19 391 15 034 15 612 18 160 18 023 19 391	 - 6 103 	86 363 124 438 167 283 235 889 304 877 170 535 182 658 206 242 235 889	14 064 13 915 9 532 13 305 18 206 9 868 9 219 12 019 13 305	40 210 51 937 68 892 78 330 91 380 69 353 66 741 72 530 78 330	870 7 969 8 555 11 880 4 025 7 607 8 275 9 942 11 880	89 662 85 281 78 804 55 478 96 351 81 099 89 639	163 483 172 260 182 320 169 089 183 178 165 333 184 130	 250 220 306 572 356 986 437 557 498 356 371 740 366 113 408 855 437 557
1993* i ii iii iii iv	19 812 20 763 21 418 24 391		253 159 254 886 265 540 265 571	16 281 21 118 23 460 27 149	17 007 15 573 13 090 15 034	 6 103	278 287 282 360 301 355 304 877	15 193 14 897 14 091 18 206	97 042 93 680 95 614 91 380	13 135 11 461 13.276 4 025	67 494 61 106	187 532 184 087	2 499 561 2 490 654 7 506 860 9 498 356
1 994* I II III	27 562 30 584 32 731	39 079 42 719 56 036	266 694 272 980 272 703	28 087 24 622 26 697	12 244 15 286 11 851	- 7 931	309 162 323 054 333 697	17 145 16 275 16 532	85 626 86 792 80 213	4 724 2 964 3 752	56 729	162 759	504 267 516 398 515 373

Position						Assets						
ert .	Direct		Pertfell	o investm	Pet			Other	investmen	t		Total
end of period	invest- ment abroad	Shares	Bonds	Money market instru- ments	Finan- cial deriva- tives	Totui (15+16+ 17+18)	Trado crodits	Loans	Curren- cy and depo- sits	Other	Tetai (20+21+ 22+23)	assets (14+ 19+24)
	14	15	16	17	18	19	20	21	22	23	24	25
1989	32 221	388	7 292	1 576		9 256	22 320	20 060	748	59 372	102 500	143 97
1990	40 800	762	6 4 4 7	2 173		9 383	16 549	24 825	5 726	65 754	112 854	163 03
1991	44 823	426	7 004	4 154		11 584	16 388	28 504	7 647	72 498	125 037	181 44
1992*	44 921	469	8 697	7 917		17 083	21 389	35 251	12 665	76 647	145 952	207 95
1993*	54 577	1 285	10 706	11 028	446	23 465	26 350	34 018	5 701	89 301	155 370	233 41
1992												
ł	43 876	428	7 472	4 550		12 450	17 401	30 223	10 193	68 559	126 376	182 70
11	41 966	408	8 681	2 881		11 970	17 034	28 128	10 558	65 317	121 037	174 97
111	45 982	442	8176	4 032		12 650	18 898	30 676	14 188	68 195	131 958	190 59
IV	44 921	469	8 697	7 917		17 083	21 389	35 25 1	12 665	76 647	145 952	207 95
1 993'												
I	51 946	676	11 952	7 766		20 394	23 664	36 976	12 275	92 392	165 307	237 64
11	48 465	671	10 801	6 627		18 099	23 888	34 148	12 159	97 321	167 516	234 08
III .	49 447	759	10 074	10 689		21 522	23 857	34 208	13 929	98 044	170 039	241 00
IV	54 577	1 285	10 706	11 028	446	23 465	26 350	34 018	5 701	89 301	155 370	233 41
1994*												
l i	59 366	1 296	9 576	10910	622	22 403	24 479	31 396	8 107	91 319	155 301	237 07
Î	64 301	1211	5 953	6 3 3 8	550	14 052	26 155	29 866	7 4 4 9	106714	170 183	248 53
ML	65 883	1116	4 175	6 087	561	11 939	24 480	28 376	6 9 5 7	113 281	173 094	250 91

6.4 FINLAND'S NET INTERNATIONAL INVESTMENT POSITION (LIABILITIES LESS ASSETS), BY SECTOR, MILL. FIM

Position at end of period	Corporate sector	Banks	Bank of Finland	Other fimancial institutions	Central govern- mozt	Local gover- mont	Net (1+2+3+ 4+5+6)	Net inter- est and dividend expendi- ture	Net inter- est and dividend expendi- ture in relation to current account receipts, %
	1	2	3	4	5	6	7	8	9
1989 1990 1991 1992* 1993*	24 142 34 853 28 483 30 501 49 897	88 931 110 111 107 434 82 343 48 189	- 23 561 - 36 700 - 34 046 - 27 546 - 33 279	- 3 108 9 910 18 960 28 283 29 737	19 264 24 751 52 748 113 674 167 444	575 610 719 2 347 2 956	106 243 143 535 174 298 229 602 264 944	10 453 13 130 15 671 19 011 21 897	8 10 13 14 13
1992 I II III IV	28 610 28 737 30 741 30 501	110 668 94 368 83 775 82 343	– 33 471 – 31 437 – 16 715 – 27 546	20 750 21 931 24 364 28 283	60 859 75 717 94 016 113 674	1 623 1 703 1 958 2 347	189 038 191 019 218 138 229 602	4 887 4 883 4 314 4 926	15 14 13 13
1993* V	35 085 37 112 45 024 49 897	65 514 61 511 44 622 48 189	- 27 782 - 37 288 - 27 318 - 33 279	29 660 27 269 27 224 29 737	156 500 165 160 173 332 167 444	2 937 2 810 2 967 2 956	261 914 256 574 265 852 264 944	6 640 7 103 3 918 4 237	16 16 9 9
1 994* I II III	58 950 58 214 70 192	53 526 52 727 34 296	- 42 504 - 52 617 - 52 998	27 717 25 280 24 271	166 274 181 009 185 627	3 233 3 248 3 069	267 196 267 861 264 457	6 607 4 250 2 955	15 8 6

7. FOREIGN TRADE

7.1 EXPORTS, IMPORTS AND THE TRADE BALANCE, MILL. FIM

7.2 FOREIGN TRADE: INDICES OF VOLUME, UNIT VALUE AND TERMS OF TRADE, 1980=100

				Period	Velu	rine -	Unit	value	Terms of
During period	Experts, tob	imports, cif	Balance (1-2)		Exports	Imports	Exports	Imports	trade
	1	2	3		1	2	3	4	5
1989	99 784	105 516	- 5 732	1989	121	144	156	126	123
1990	101 327	103 027	- 1 700	1990	125	138	154	128	120
1991	92 842	87 744	5 098	1991	114	115	154	131	118
1992	107 463	94 947	12 516	1992	124	112	164	145	113
1993*	133 927	103 078	30 849	1993	147	109	172	163	106
1993*				1992					
Oct.	13 909	8 432	5 477	II	125	118	162	143	113
Nov.	12 402	9 522	2 880		117	102	163	142	115
Dec.	10 880	9 473	1 407	IV	133	116	171	154	111
1994*				1993					
Jan.	11 882	8319	3 563	I	135	108	176	165	106
Feb.	10 911	7418	3 493		143	105	174	165	105
March	12 127	9515	2612	105	141	101	174	165	105
April	12 346	9412	2 934	IV	165	116	170	161	105
May	13 368	10 928	2 440						
June	13 308	9 598	3710	1994	100	107	170	1/1	10/
July	13 136	9164	3 972	1	155	107	170	161	106
-	11 561	9 872	1 689		168	129	175	158	111
Aug.	13113	9872 10121	2 992		161	124	178	161	111
Sept.									
Oct.	13 367	10 075	3 292						

7.3 FOREIGN TRADE BY MAIN GROUPS, MILL. FIM

During period		Expert	s by industri	ies, fob		imports by use of goods, cif					
period	Wood Industry	Paper	Chemical Industry	Motal and	Other	Raw materials	Crude oli, fuels and	Finisbe	d goods	Other	
	products	indústry products	products	onginooring industry products	goods	(exti. crude oil)	tueis and Iubricants	investment goods	Consumer goods	- goods	
	1	2	3	4	5	6	7	8	9	10	
1989	7 416	32 513	8 844	32 682	18 329	51 786	8 3 1 0	20 606	24 055	759	
1990	7811	31 658	9 540	35 493	16 825	49 210	9 829	19 364	23 888	736	
1991	6 984	29 695	10 539	29 188	16 436	42 505	9 399	13 973	21 195	672	
1992	7 892	32 587	12 172	35 741	1 9 071	49 514	9 745	13 348	20 826	1 514	
1993*	10 889	37 410	14 192	48 099	23 337	54 778	10911	15 337	21 045	1 007	
1993*											
Oct.	1 1 3 6	3 508	1 258	5 866	2141	4 725	867	983	1 838	19	
Nov.	1 061	3 294	1 354	4 479	2 2 1 4	4 957	1 275	1 287	1 949	54	
Dec.	964	2 954	1 069	3 766	2 127	5 013	1 1 1 3	1 356	1 895	96	
1994*											
Jan.	978	3 009	1 282	4 272	2 341	4 537	693	1 206	1 820	63	
Feb.	1 018	3 060	1 060	3 741	2 032	4 229	608	925	1 621	35	
March	1 026	3 623	1 248	4 061	2 169	5 1 9 8	752	1314	2 206	45	
April	1 165	3 487	1 156	4 338	2 200	4 823	968	1 662	1 913	46	
May	1 431	3 506	1 511	4 538	2 382	6 075	1 290	1317	2 232	14	
June	1 318	3 358	1 289	4 882	2 461	5 513	867	1 1 92	1 950	76	
July	1 015	3 287	1 315	5 802	1717	4 823	955	1 227	1 7 92	367	
Aug.	935	3 437	1 258	3816	2 1 1 5	5 419	1 02 9	1 386	2 031	7	
Sept.	1 313	3 586	1 354	4 320	2 540	5 656	1 054	1 384	2 027	0	
Oct.	1 268	3 566	1 313	4 937	2 283	5 645	803	1 485	2 051	91	

		Expor	is, fob			Impo	orts, cif	
Region and	19	93 '	Janue	1994 * ary – October	1	993 •		994 * ry – October
	Mill. FIM	Porcentage share	MIII. FIM	Percentage change from the corre- sponding period of the previous year	Mill. FIM	Percentago sharo	Mill. FIM	Percentage change from the corre- sponding period of the previous year
	1	2	3	4	5	6	7	8
All OECD countries	102 135	76.3	94 054	10.6	81 607	79.2	73 101	9.9
OECD Europe	86 513	64.6	79 415	10.7	66 956	65.0	58 736	7.9
Of which:								
Austria	1 427	1.1	1 314	9.7	1179	1.1	1 069	12.6
Belgium and								
Luxembourg	2 955	2.2	2 808	14.4	3 008	2.9	2 585	9.4
Denmark	4 479	3.3	4 3 1 5	16.8	3 2 3 1	3.1	2 9 1 5	9.3
France	7 1 1 4	5.3	6 2 9 2	6.3	4716	4.6	3 9 4 4	2.5
Germany	17 628	13.2	16 834	15.5	16 901	16.4	13 969	- 0.6
Italy	4 350	3.2	3 671	0.5	3 811	3.7	3 780	20.8
Netherlands	6 7 2 9	5.0	6 455	16.9	3 847	3.7	3 4 1 8	7.3
Norway	4 277	3.2	3 974	14.0	5 010	4.9	4 426	9.5
Spain	3 263	2.4	2 881	2.0	1 245	1.2	1 240	29.2
Sweden	14 855	11.1	13 490	10.3	10 531	10.2	9 893	15.5
Switzerland	2111	1.6	1 891	7.3	2 0 4 4	2.0	1 691	0.8
United Kingdom	14 020	10.5	12 915	10.6	9 160	8.9	7 775	9.7
Other OECD	15 622	11.7	14 640	10.0	14 651	14.2	14 366	18.8
Of which:								
Canada	1 075	0.8	861	- 6.8	724	0.7	649	7.2
Japan	2 187	1.6	2 602	47.7	5 958	5.8	5 978	21.6
United States	10 506	7.8	9 453	3.9	7 498	7.3	7 193	16.2
Non-OECD Europe	an							
countries Of which:	12 679	9.5	14 685	49.7	11 207	10.9	11814	28.5
Russia	6 05 1	4.5	6 477	42.0	7 813	7.6	8 4 1 5	29.8
Other countries Of which:	19113	14.3	16 380	3.1	10 264	10.0	9510	14.4
OPEC countries	3 266	2.4	2017	- 24.1	542	0.5	467	12.1
TOTAL Of which:	133 927	100.0	125 1 19	13.0	103 078	100.0	94 425	12.4
EC countries	62 850	46.9	58 117	11.2	47 974	46.5	41 439	6.2
EFTA countries	22 799	17.0	20 775	10.6	18 831	18.3	17 149	12.2

7.4 FOREIGN TRADE BY REGIONS AND COUNTRIES

8. DOMESTIC ECONOMIC DEVELOPMENTS 8.1 SUPPLY AND USE OF RESOURCES, MILL. FIM, 1990 PRICES

Period		mption aditure	Fb inves		Change in stocks,	Domestic domand	Exports	Imports	GDP (6+7-8)
	Private	Public	Private	Public	incl. statistical discrepancy	(1+2+3+4+5)			
	1	2	3	4	5	6	7	8	9
1989	269 879	104 526	129 905	15 149	5 975	525 434	117 241	127 311	515 364
1990	269 754	108 535	121 858	17 286	5 769	523 202	118 828	126 600	515 430
1991	260 031	111 256	93 722	17 243	- 2 451	479 801	110 965	111 755	479 011
1992	247 363	108 799	75 338	16 899	4 075	452 474	122 059	112 989	461 544
1993*	237 559	102 932	60 332	14 369	8 264	423 456	142 292	113 352	452 396
1992									
L.	63 180	27 422	20 408	4 312	113	115 435	29 534	28 504	116 466
11	61 769	27 272	19 802	4 464	1 208	114 515	30 435	28 927	116 022
IEI	61 404	27 090	18 370	4 015	1 271	112 149	30 425	27 516	115 059
IV	61 010	27 015	16 758	4 108	1 483	110 374	31 665	28 042	113 997
1993*									
I	60 136	25 989	15 757	3 670	1 973	107 524	34 461	29 303	112 682
	59 021	25 834	14 730	3 722	1 574	104 881	34 410	27 021	112 270
	58 918	25 617	14 976	3 674	3 2 2 4	106 408	36 035	28 566	113 877
IV	59 484	25 492	14 869	3 304	1 494	104 643	37 386	28 462	113 567
1994*									
1	61 086	24 949	15 664	3 227	427	105 353	37 415	27 888	114 880
II	59 891	24 766	16 360	3 065	4 435	108 517	39 927	30 979	117 465

8.2 VOLUME OF INDUSTRIAL PRODUCTION, 1990=100

(seasonally adjusted figures)

Period	Total industry	Mining and quarrying	Manu- facturing	Wood and paper industries	Metal and engineering industries	Other manu- facturing	Enorgy and water supply
	(100.0)	(1.3)	(89.6)	(16.8)	(31.3)	(41.5)	(9.1)
	1	2	3	4	5	6	7
1989	100.3	101.9	100.5	102.3	99.6	100.8	97.9
1990	100.2	99.8	100.2	100.1	100.4	100.1	100.0
1991	91.2	91.3	89.9	91.5	85.6	92.6	103.6
1992	92.4	88.4	91.4	94.6	91.1	90.2	103.0
1993*	97.1	85.8	96.2	104.3	99.4	90.4	107.9
1993*					•		
Sept.	99.5	77.3	98.8	107.6	102.6	92.4	110.1
Oct.	100.7	83.8	100.1	110.3	105.0	92.2	110.6
Nov.	101.2	83.4	100.3	109.3	104.9	93.7	109.7
Dec.	101.8	84.9	100.6	109.4	106.9	93.1	113.1
1994*							
Jan.	102.3	99.4	101.1	111.5	103.7	93.8	113.0
Feb.	103.3	90.5	101.5	109.9	109.5	93.0	119.2
March	103.6	97.9	102.4	111.7	113.0	88.7	116.2
April	105.5	103.2	104.8	111.8	112.6	96.2	114.5
May	108.2	84.7	106.5	113.6	116.6	97.7	116.1
June	107.9	101.0	107.5	113.6	116.7	98.0	117.4
July	108.7	219.9	106.2	120.1	111.3	96.8	113.1
Aug.	107.2	174.5	104.8	113.2	113.3	94.5	125.7
Sept.	111.7	97.7	111.5	114.9	129.5	96.6	118.8

8.3 INDICATORS OF DOMESTIC SUPPLY AND DEMAND, 1985=100

(seasonally adjusted figures)

Trade Trade of buildings Desidential buildings Ladestrial buildings Other buildings geods of 6 PF 1 2 3 4 5 6 7 8 1989 124.2 117.0 130.3 132.9 137.6 125.2 161.4 116.7 1990 119.9 111.6 127.3 124.8 161.7 122.1 144.6 117.5 1991 99.4 103.5 103.9 94.4 127.7 109.9 102.1 110.3 1993 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 104.7 Rept. 81.7 107.8 1993* 104.7	Period	Volume of wholesale	Volume of retail	Volume of construction		Of which:		Imports of investment	Monthly indicator
1989 124.2 117.0 130.3 132.9 137.6 125.2 161.4 116.7 1990 119.9 111.6 127.3 124.8 161.7 122.1 144.6 117.5 1991 99.4 103.5 103.9 94.4 127.7 109.9 102.1 110.3 1992 87.2 92.9 79.5 73.8 76.2 87.5 84.5 107.0 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 104.7 Ropt. 81.7 85.5 105.2 Oct. 80.6 85.9 105.2 Nov. 83.2 86.9 107.1 Dec. 84.0 88.9 107.6 1993*									
1990 119.9 111.6 127.3 124.8 161.7 122.1 144.6 117.5 1991 99.4 103.5 103.9 94.4 127.7 109.9 102.1 110.3 1992 87.2 92.9 79.5 73.8 76.2 87.5 84.5 107.0 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 83.6 85.7 105.2 Det. 80.6 85.9 105.8 Nov. 83.2 86.9 107.1 Dec. 84.0 88.9 107.6 1993* 107.6 1993*		1	2	3	4	5	6	7	8
991 99.4 103.5 103.9 94.4 127.7 109.9 102.1 110.3 1992 87.2 92.9 79.5 73.8 76.2 87.5 84.5 107.0 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 85.7 104.7 kept. 81.7 85.5 105.2 Oct. 80.6 85.9 107.1 Dec. 84.0 88.9 107.6 1993* 107.6 III 82.6 87.3 56.7 57.1 61.5 51.4 78.	1989	124.2	117.0	130.3	132.9	137.6	125.2	161.4	116.7
1992 87.2 92.9 79.5 73.8 76.2 87.5 84.5 107.0 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* 81.7 85.5 104.7 105.1 81.7 85.5 105.2 Det. 80.6 85.9 105.2 Nov. 83.2 86.9 107.6 1993* 107.6 1993* 107.6 1993* 107.6 1993* 107.6 1994* </td <td>1990</td> <td>119.9</td> <td>111.6</td> <td>127.3</td> <td>124.8</td> <td>161.7</td> <td>122.1</td> <td>144.6</td> <td>117.5</td>	1990	119.9	111.6	127.3	124.8	161.7	122.1	144.6	117.5
1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* Nag. 83.6 85.7 104.7 Sept. 81.7 85.5 104.7 Det. 80.6 85.9 105.2 Det. 84.0 88.9 105.8 Nov. 83.2 86.9 107.1 Dec. 84.0 88.9	1991	99.4	103.5	103.9	94.4	127.7	109.9	102.1	110.3
1993* 82.5 87.6 59.5 60.5 52.9 59.8 83.0 105.5 1993* Nag. 83.6 85.7 104.7 Sept. 81.7 85.5 104.7 Det. 80.6 85.9 105.2 Det. 84.0 88.9 105.8 Nov. 83.2 86.9 107.1 Dec. 84.0 88.9	1992	87.2	92.9	79.5	73.8	76.2	87.5	84.5	107.0
Aug. 83.6 85.7 104.7 Sept. 81.7 85.5 105.2 Oct. 80.6 85.9 105.2 Oct. 80.6 85.9 105.2 Dec. 84.0 88.9 107.1 Dec. 84.0 88.9 107.6 1993* 82.6 87.8 60.5 62.5 52.1 63.6 73.3 104.2 III 83.0 85.6 59.3 60.4 47.9 59.3 60.7 105.0 V 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 Ioga 83.6 89.1 .	1993*			59.5		52.9	59.8	83.0	105.5
Bept. 81.7 85.5 105.2 Dct. 80.6 85.9 105.8 Nov. 83.2 86.9 107.1 Dec. 84.0 88.9 107.1 Dec. 84.0 88.9 107.6 1993* 107.6 1993* 107.6 1993* 107.5 Ill 83.0 85.6 59.3 60.4 47.9 59.3 60.7 105.0 V 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 Ign 83.6 89.1	1993*								
Det. 80.6 85.9	Aug.								
Nov. 83.2 86.9	Sept.	81.7							
Dec. 84.0 88.9 107.6 1993* 107.6 1993* 107.6 11 82.3 87.8 60.5 62.5 52.1 63.6 73.3 104.2 111 83.0 85.6 59.3 60.4 47.9 59.3 60.7 105.0 IV 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 1994* Image: State	Oct.	80.6	85.9						
1993*	Nov.	83.2	86.9						107.1
II 82.3 87.8 60.5 62.5 52.1 63.6 73.3 104.2 III 83.0 85.6 59.3 60.4 47.9 59.3 60.7 105.0 IV 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 IP94* III 107.3 Igan. 82.5 88.6 107.3 Igan. 82.5 88.6 107.3 Igan. 82.5 88.6 107.3 March 83.9 92.5 107.5 March 83.9 92.5 109.3 April 82.2 87.6 109.9 June 88.2 89.6 109.8 <td>Dec.</td> <td>84.0</td> <td>88.9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>107.6</td>	Dec.	84.0	88.9						107.6
83.0 85.6 59.3 60.4 47.9 59.3 60.7 105.0 IV 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 Ig94* Image: State S	1993*								
V 82.6 87.3 56.7 57.1 61.5 51.4 78.7 106.8 Ign. 82.5 88.6 107.3 Feb. 83.6 89.1 107.3 Feb. 83.6 89.1 107.3 March 83.9 92.5 109.3 April 82.2 87.6 109.3 May 89.4 90.9 109.9 June 88.2 89.6 10.9 July 85.7 85.0 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2	11		87.8		62.5				
1994* Jan. 82.5 88.6 107.3 Feb. 83.6 89.1 107.5 March 83.9 92.5 107.3 April 82.2 87.6 109.3 April 82.2 87.6 109.9 May 89.4 90.9 110.9 June 88.2 89.6 109.8 July 85.7 85.0 109.8 Nug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0		83.0	85.6	59.3	60.4	47.9	59.3	60.7	105.0
Jan. 82.5 88.6 107.3 Feb. 83.6 89.1 107.3 March 83.9 92.5 107.5 March 83.9 92.5 107.5 May 82.2 87.6 109.3 May 89.4 90.9 109.9 June 88.2 89.6 110.9 June 85.7 85.0 109.8 Aug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 <td>IV</td> <td>82.6</td> <td>87.3</td> <td>56.7</td> <td>57.1</td> <td>61.5</td> <td>51.4</td> <td>78.7</td> <td>106.8</td>	IV	82.6	87.3	56.7	57.1	61.5	51.4	78.7	106.8
Reb. 83.6 89.1 107.5 March 83.9 92.5 109.3 April 82.2 87.6 109.3 May 89.4 90.9 109.9 May 89.4 90.9 109.9 June 88.2 89.6 109.8 July 85.7 85.0 109.8 Aug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	1994*								
March 83.9 92.5 109.3 April 82.2 87.6 109.3 May 89.4 90.9 109.3 June 88.2 89.6 <t< td=""><td>Jan.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Jan.								
April 82.2 87.6 109.9 May 89.4 90.9 110.9 June 88.2 89.6 110.9 June 85.7 85.0 109.8 July 85.7 85.0 109.8 Aug. 92.5 88.9 109.8 Aug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	Feb.								
May 89.4 90.9 110.9 June 88.2 89.6 109.8 July 85.7 85.0 109.8 July 85.7 85.0 109.8 July 85.7 88.9 109.8 Jug. 92.5 88.9 110.0 1994*	March								
June 88.2 89.6 109.8 July 85.7 85.0 109.8 July 85.7 85.0 109.8 Aug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	April								
July 85.7 85.0 109.8 Aug. 92.5 88.9 110.0 I 994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	May	89.4	90.9						
Aug. 92.5 88.9 110.0 1994* 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	June		89.6						
1994* I 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	July	85.7	85.0						109.8
1 83.4 90.1 53.7 59.5 40.3 50.2 72.7 108.0	Avg.	92.5	88.9						110.0
	1994*	<u> </u>	00.1	50.7	50.5	(0.0	50.0	70 7	100.0
■ 86.6 89.4 49.1 56.4 50.2 42.0 97.3 110.2	1								
		86.6	89.4	49.1	56.4	50.2	42.0	97.3	110.2

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8.4 WAGES AND PRICES, 1990=100

Period	index of wage and		By sectors		Con- sumer price	indica- tor of undor-	Basic price index	By	origin	Produc- or price index	By mar ar		Building cost index
	salary carnings	Private	Of which: Manufac- turing (SIC 3)		index	lying isfla- tion	infla- domestic	Domes- tic goods	import- od geods	for manu- fac- turing	Expert- ed goods	tiome market geods	
	1	2	3	4	5	6	7	8	9	10	11	12	13
1989 1990 1991 1992 1993	91.5 100.0 106.4 108.4 109.2	91.7 100.0 106.4 108.1 108.8	91.1 100.0 106.1 108.3 110.0	91.2 100.0 106.4 109.0 110.1	94.2 100.0 104.3 107.4 109.7	94.9 100.0 104.1 107.1 109.9	96.6 100.0 100.0 101.4 104.8	96.9 100.0 99.8 99.5 100.8	99.1 100.0 100.8 108.5 119.3	98.1 100.0 99.4 101.6 105.5	100.5 100.0 98.5 102.7 109.2	96.9 100.0 99.8 101.1 103.9) 100.0 3 102.2 100.4
1993 Oct. Nov. Dec.	 	 	 	 	109.9 109.7 109.7	110.8 110.8 110.6	104.9 104.7 104.5	101.1 101.0 100.8	119.1 118.3 118.2	106.1 105.6 105.2	110.3 109.4 109.2	104.3 104.0 103.5	101.0
1993 111 IV	108.9 109.9	108.2 109.6	109.6 111.5	110.2 110.7	109.6 109.8	110.2 110.7	105.0 104.7	100.9 101.0	119.9 118.5	105.7 105.6	109.4 109.6	104.1 103.9	
1994 Jan, Feb, Mard April May June July Aug, Sept. Oct,	 	 		 	109.4 109.8 110.0 110.2 110.3 111.3 111.4 111.6 111.8 111.9	110.3 110.8 111.0 111.3 111.3 111.3 111.5 111.7 112.0	104.8 105.1 105.4 105.8 106.1 106.6 106.8 107.0 107.1	101.2 101.7 101.9 102.1 102.2 102.5 103.1 103.3 103.7 104.0	117.8 117.4 118.1 119.2 119.1 119.5 119.3 119.5 119.3 118.2	105.5 105.5 105.7 105.8 106.4 107.0 107.7 108.2 108.4 108.4	109.4 108.4 108.0 109.0 110.3 110.9 112.0 112.0 111.0	103.9 104.3 104.7 104.8 105.2 105.6 106.3 106.5 106.8 107.3	101.6 101.7 101.7 101.9 102.2 102.1 102.4 102.5
1 994 I II III	110.4 110.9 111.1	110.3 110.9 111.0	113.1 114.4 114.9	110.9 111.0 111.2	109.7 110.6 111.6	110.7 111.3 111.7	105.1 105.9 106.8	101.6 102.3 103.4	117.8 119.3 119.4	105.6 106.4 108.1	108.6 109.1 111.6	104.3 105.2 106.5	101.9

¹ Preliminary figures for columns 1–4.

8.5 LABOUR, EMPLOYMENT AND UNEMPLOYMENT (seasonally adjusted figures)

Period	Labour force	Labour force	Totai employ-	By indust	rial status		By in	dustry		Unem- ployed	Unem- ployment
	partici- pation rate among 15-74 yoar olds		unent (4+5) = (6+7+8+9)	Seif- employed	Wage and salary earners	Agri- culture and forestry	Industry	Con- struction	Service industries		rate
	- %			-	10	00 person	6				%
	1	2	3	4	5	6	7	8	9	10	11
1989	68.7	2 559	2 470	367	2 104	218	561	199	1 492	89	3.5
1990	68.4	2 556	2 467	360	2 1 0 8	207	556	205	1 500	88	3.4
1991	67.4	2 533	2 340	340	2 000	197	502	179	1 461	193	7.6
1 992	66.1	2 502	2174	325	1 849	188	454	150	1 382	328	13.1
1993	65.3	2 484	2 041	312	1 729	173	423	124	1 319	444	17.9
1993											
Oct.	65.1	2 479	2 012	315	1 697	175	415	120	1 302	467	18.9
Nov.	65.3	2 486	2 023	294	1 729	173	414	119	1 318	463	18.6
Dec.	65.2	2 485	2013	319	1 693	172	418	114	1 308	472	19.0
1994											
Jan.	64.7	2 468	1 993	354	1 638	170	410	117	1 296	475	19.3
Feb.	65.4	2 495	2 029	298	1 731	170	420	112	1 326	466	18.7
Marci	6 5.2	2 489	2014	313	1 701	166	422	110	1 316	475	19.1
April	64.7	2 470	2 003	312	1 690	165	420	112	1 305	468	18.9
May	64.9	2 483	2 017	309	1 709	167	420	114	1 317	465	18.7
June	64.9	2 484	2 027	314	1 713	172	423	107	1 325	457	18.4
July	64.6	2 472	2011	302	1 709	164	423	118	1 306	461	18.6
Aug.	64.6	2 472	2 027	305	1 722	168	431	112	1 316	445	18.0
Sept.	65.0	2 491	2 041	310	1 731	170	440	112	1 318	450	18.1
Oct.	64.8	2 482	2 04 1	301	1 739	159	435	118	1 328	441	17.8

8.6 CENTRAL GOVERNMENT FINANCES: REVENUE, EXPENDITURE AND FINANCIAL BALANCE, MILL. FIM, CASH FLOW BASIS

During		_		Revenu	e				Expe	aditure	
peried	Direct taxes	indirect taxes	Other taxes and similar	Other revenue	Rev- enue before	Redemp- tions	before	Consump- tion	Trans- fers and sub-	of	which:
			similar revenue		financial trans- actions (1+2+3+4)	of loans granted by the state	borrowing (5+6)		sup- sidies	Local govern- ment	Other do - mestic sectors
	1	2	3	4	5	6	7	8	9	10	11
1989 1990 1991 1992 1993	39 397 42 611 41 054 34 312 31 667	76 458 77 364 73 251 69 541 67 291		15 990 18 423 19 182 21 251 28 823	132 316 139 351 134 624 126 616 129 224	3 926 4 260 4 442 5 054 7 366	136 241 143 611 139 069 131 669 136 593		72 008 81 190 101 220 105 184 108 608	33 244 37 646 42 297 42 990 42 720	35 715 40 313 55 160 59 180 63 535
1993 Sept. Oct. Nov. Dec.	2 792 2 774 2 736 2 078	5 185 5 548 5 757 6 543	118 147	2 247 1 072 2 672 5 142	10 353 9 512 11 312 13 878	108 64 2 638 759	10 461 9 576 13 952 14 637	3 658 3 381 3 708 4 256	9 482 9 774 9 371 10 357	3 371 3 375 3 437 3 609	5 987 6 235 5 820 6 318
1994 Jan. Feb. March April May June July Aug. Sept.	2 827 2 757 3 774 2 374 2 567 2 567 3 059 2 915 2 671	6 024 5 500 4 727 5 134 5 970 5 511 5 980 6 837 5 289	115 100 100 98 524 237 138	1 857 1 770 2 283 -1 945 2 717 1 977 1 756 1 336 1 489	10 775 10 142 10 884 9 553 11 352 10 798 11 032 11 226 9 576	27 83r 2 382r 208 241 1 503 898 198 81	10 802 10 224r 13 265r 9 759 11 592 12 300 11 929 11 424 9 658	3 699 3 090 4 097 3 320 3 633 4 654 4 200 3 046 3 866	9 936 8 334 9 474 9 049 8 999 9 930 8 475 8 170 8 399	3 118 3 084 3 521 3 849 3 684 3 725 3 195 3 115 3 147	6 609 4 939 5 820 5 068 5 166 6 028 5 083 4 806 5 182

During period			Expenditu	re			Financial	balance	
perioa	Fixed invest- ment	Other expendi- ture	Expenditure before financial transactions (8+9+ 12+13)	Lending and other financial investment	Expenditure before redemptions of state debt (14+15)	enue sur-	Not bor- rowing requirement (7-16)	Net bor- rowing	Cash swr- plus (18+19)
	12	13	14	15	16	17	18	19	20
1989	8 393	5 343	120 826	7 566	128 390	11 490	7 851	- 4 009	3 842
1990	5 962	4 927	133 614	9319	142 934	5 737	678	1 201	1879
1991	5 370	6 368	158 044	13 328	171 372	- 23 420	- 32 304	25 659	- 6 645
1992	5 042	8 499	168 016	35 501	203 516	- 41 400	- 71 847	70 691	- 1 155
1993	4 306	18 076	177 870	19 753	197 623	- 48 646	- 61 030	84 036	23 009
1993									
Sept.	417	1 135	14 692	1 756	16 448	- 4 339	- 5 987	3 529	- 2 457
Oct.	369	2 497	16 021	740	16 761	- 6 509	- 7 185	6 076	- 1 109
Nov.	349	771	14 199	767	14 966	- 2 887	- 1 014	1 230	216
Dec.	477	1 744	16 834	2 491	19 325	- 2 956	- 4 688	91	- 4 596
1994									
Jan.	187	3 336	17 158	545	17 703	- 6 383	- 6 901	519	- 6 383
Feb.	224	1 202	12 850	631r	13 482 r	- 2 708	- 3 258	7 659	4 402
March	245	3 1 2 0	16 936	3 11 Ir	20 047 r	- 6 052	- 6 782	- 41	- 6 823
April	227	2 081	14 677	1 434	16112	- 5 124	- 6 353	789	- 5 563
May	257	1 438	14 327	717	15 045	- 2 975	- 3 453	9 209	5 756
June	342	2 4 2 4	17 350	663	18 013	- 6 552	- 5713	13 429	7716
July	353	1 181	14 209	365	14 575	- 3 177	- 2 646	14 635	11 990
Aug.	298	1216	12 730	633	13 363	- 1 504	- 1 939	- 1 348	- 3 287
Sept.	321	1748	14 334	6 4 9 0	20 824	- 4 758	- 11 166	13 203	2 037

NOTES AND EXPLANATIONS TO THE STATISTICAL SECTION

GENERAL

Source

Unless otherwise stated, the source or compiler of figures is the Bank of Finland

Symbols used

- Preliminary
- Revised 0
- Less than half the final digit shown Logically impossible
- Data not available
- Nil
- S Affected by strike
- Break in series

Owing to rounding of figures, the sum of the individual items in the tables may differ from the total shown.

NOTES AND EXPLANATIONS TO TABLES

1 THE BALANCE SHEET OF THE BANK OF FINLAND

Table 1.2 Domestic financial sector. Term claims on deposit banks, net (Column 11) = bank certificates of deposit held by the Bank of Finland + securities with repurchase commit-ments + term credits - term deposits. Liquidity position of deposit banks (Column 12): see explanation to Table 2.1. Other claims on financial institutions, net (Column 14) = till-money credits to deposit banks (until May 1993) + bonds + other claims on financial institutions - other liabilities to financial institutions.

2 THE BANK OF FINLAND'S OPERATIONS IN THE MONEY AND FOREIGN EXCHANGE MARKETS AND THE BANKS FORWARD EXCHANGE POSITION

Table 2.1 Banks with access to central bank financing can make call money deposits with the Bank of Finland without limit. They can also obtain liquidity credit with a maturity of 1 day, 7 days, 14 days, 21 days or 28 days. The maturity is determined by the Bank of Finland.

Table 2.2 The minimum reserve requirement is reported for the month by the end of which the deposit must be made with the Bank of Finland. The requirement is determined on the basis of the reserve base for the previous month. No interest is paid on minimum reserve deposits. The cash reserve figures for 1989 include the additional deposit requirement of 1.1 per cent under the supplementary cash reserve agreement in force at the time, together with the corresponding noninterest-bearing deposits of FIM 3 159 million.

Table 2.3 Money market instru-ments are the instruments used by the Bank of Finland in its money market operations. Matured money market instruments, net, comprise both instruments purchased and sold. Money market transactions are recorded according to trade dates.

Table 2.4 Foreign exchange transactions are recorded according to trade dates. In addition to spot transactions (Columns 1, 2, 4 and 5) the Bank of Finland's foreign exchange reserves are affected by interest payments and by changes in both the prices of securities and exchange rates. Spot transactions related to forward contracts (Column 4) refer to the combined effects on the foreign exchange reserves of forward transactions in the form of swaps and maturing forward transactions. The central government's foreign exchange transactions (Column 5) comprise transactions related to drawings and redemptions of government loans and associated interest payments.

Table 2.5 The markka value of forward contracts is given.

3 RATES OF INTEREST

Table 3.1 The interbank overnight rate (Column 1) is weighted using amounts of interbank deposits as weights. HELIBOR (<u>Helsinki</u>) Inter-bank Offered Rate) (Columns 2–5): The HELIBOR rate for each maturity is calculated by the Bank of Finland as the average of the offered rates for certificates of deposit quoted daily at 1 p.m. by the five largest banks.

Table 3.2 The Bank of Finland's tender rate (Column 1) is determined in tenders held by the Bank of Finland, in which the banks are asked to make bids or offers for money market instruments with a maturity of one month. The tender rate is the weighted average of accepted bids or offers, expressed as a simple annual interest rate. If, when requesting bids or offers, the Bank of Finland announces an acceptable interest rate (fixed-rate tender), the tender rate is the same as the rate announced by the Bank. The monthly and annual values for the tender rate are the arithmetic means of

calendar day figures. Banks with access to central bank financing can make call money deposits with the Bank of Finland without limit. In addition, they can obtain liquidity credit from the Bank of Finland with a maturity of 1 day, 7 days, 14 days, 21 days or 28 days. The maturity of liquidity credit is determined by the Bank of Finland. The rate of interest on liquidity credit is obtained by adding together the Bank of Finland's tender rate and the interest rate margin for liquidity credit. The call money deposit rate is obtained by subtracting the in-terest rate margin for call money deposits from the Bank of Finland's tender rate. The monthly and annual values for maturity and interest rate margins are the last values recorded in

Table 3.3 The rates shown are based on the lending rates quoted for the respective currencies in the Euromarket. ECU (Column 1): the weights of the ECU basket. 3 currencies (Column 2): DEM 60, USD 30 and GBP 10 per cent.

Table 3.4 Lending. New credits (Columns1-4): rates of interest on new credits drawn during the month are

average monthly rates weighted by loan amounts. Annual rates are arithmetic averages of monthly observa-tions until 1987 after which they are weighted by loan amounts. Average lending rates (Columns 5 and 6) are all weighted by loan amounts. As from January 1989, the loans of Postipankki Ltd have been included in the commercial banks' outstanding stock of loans. Deposits. 24-month and 36month tax-exempt deposits (Columns 7 and 8): from May (September) 1992, 24-month(36-month) deposits are taxexempt if they carry a rate of interest which is at most the Bank of Finland's base rate less two percentage points (one percentage point). In the period from January 1989 to April 1992, 24month deposits (Column 7) were taxexempt if they carried a rate of interest which was at most the Bank of Finland's base rate less one percentage point. Other tax-exempt deposits (Column 9): in the period from January 1989 to April 1992, deposits other than 24-month deposits were tax-exempt if they carried a rate of interest which was at most the Bank of Finland's base rate less 4 percentage points. From May 1992, deposits other than 24 month or 36-month deposits are taxexempt if they carry a maximum rate of interest as prescribed by law. The maximum rate was first set at 4.5 per cent. From 6 May 1993 it has been 2.5 per cent. All markka deposits (Column 10): the stock of deposits comprises all markka deposits by the public. The monthly and annual average rates of interest are weighted by deposit amounts. Other funding (Column 11): CDs outstanding + promissory notes + bonds. The average rate of interest is weighted by amounts. Total markka funding (Column 12); markka deposits by the public + banks' other markka funding. The rate of interest is weighted by amounts.

Table 3.5 Reference rates (Columns 1 and 2) are calculated by the Bank of Finland as the monthly averages of the offered rates for taxable, fixed-rate bonds quoted daily by the five largest banks. Yields on taxable government bonds (Columns 3 and 4) are calculated by the Bank of Finland in a similar fashion. Until January 1992, the yield on 5-year taxable govern-ment bonds (Column 3) was calculated on a bullet bond due on 15 March 1994 with a coupon rate of 13 per cent. From February 1992 onwards the yield is calculated on a bullet bond due on 15 January 1999 with a coupon rate of 11 per cent. Until June 1993, the yield on 10-year taxable government bonds (Column 4) is calculated on a housing bond (bullet) due on 15 March 2002 with a coupon rate of 10.75 per cent. From July 1993 onwards the yield is calculated on a bullet bond due on 15 March 2004 with a coupon rate of 9.50 per cent. The yield on taxable public issues (Column 5) is calculated as the arithmetic mean of yields on fixed-rate ordinary bonds, debentures and other bonds (excl. zero coupon loans, bonds with equity warrants and convertible debentures) issued by all S25 issuers except the central government with a remaining maturity of between 3 and 6 years. The yield on taxfree public issues (Column 6) is calculated as the arithmetic mean of yields on fixed-rate public bonds with a remaining maturity of between 4 and 5 years. The Bank of Finland calculates the yields for columns 5 and 6 once a week on the basis of the trading guotations of the Helsinki Stock Exchange. Monthly observations are the averages of weekly observations and annual observations the averages of monthly observations. The share yield (Column 7) is the weighted effective yield on shares quoted on the Helsinki Stock Exchange. Source: Statistics Finland.

4 RATES OF EXCHANGE

Table 4.2 FIM/ECU (Column 1): The markka value of the ECU is calculated as the sum of the dollar amounts of the currencies in the ECU valued at current market rates, for which daily quotations at noon Finnish time are used. Since 8 September 1992 the markka has been floating. Tradeweighted currency index (Column 2): The weights are moving averages of the shares of (currently) 14 countries in Finland's foreign merchandise trade (only convertible currencies are moving averages of shares of payments currencies (14 convertible currencies) in Finland's foreign trade. The MERM index (Column 3): The weights are moving averages of shares of payments currencies (14 convertible currencies) in Finland's foreign trade. The MERM index (Column 4): The weights are fixed 1977 weights computed on the basis of the IMF's world trade mode; 14

5 OTHER DOMESTIC FINANCING

Table 5.1 Source: Statistics Finland. The public comprises households and non-profit institutions, enterprises (excl. financial institutions) and the local government sector. The table is based on new classifications of Statistics Finland applied since March 1991. Series before March 1991 have been reclassified by the Bank of Finland to conform with the present table, except for columns 3 and 4 where disaggregation was not possible and combined figures are shown. Time deposits (Column 3) consist of all fixed-term deposits. Other deposits (Column 4) include mainly investment accounts with no specific time-period. Other funding (Column 8) comprises CDs, promissory notes and bonds. The figures for banks' holdings of CDs issued by other banks, as well as the CD holdings of the Bank of Finland and the central government have been netted out; netting out is done by the Bank of Finland. Hence, this column includes some liabilities held by entities not covered by the above definition of the public.

Table 5.2 Source: Statistics Finland. The public comprises households and non-profit institutions, enterprises (excl. financial institutions) and local government. Foreign currency credits (Column 5) are mainly granted by commercial banks and Postipankki.

Table 5.3Foreign assets, net (Column 1) = the Bank of Finland's foreignS26claims + banks' foreign claims (incl.

foreign claims of banks' foreign branches) - the Bank of Finland's foreign liabilities -banks' foreign liabilities (incl. foreign liabilities of banks' foreign branches). Domestic credit. Claims on the central government, net (Column 2) = the Bank of Finland's claims on the central government + banks' claims on the central government - the central government's de-posits with the Bank of Finland and Postipankki -loans granted from state funds through banks. Claims on the public (incl. local government), (Column 3) = the Bank of Finland's claims on the private sector + banks' claims on the private sector (loans to the public, bonds and debentures (excl. government bonds and bank debentures), claims on other financial institutions, shares held by banks). Other items, net (Column 5) = capital accounts and other items of the Bank of Finland (incl. private sector time deposits with the Bank of Finland) + capital accounts of deposit banks unclassified assets and liabilities of deposit banks, net (bank debentures, bank CDs held by the public, other market funding and foreign currency deposits by the public). M, (Column 6) = currency in circulation - banks' till money + markka cheque and postal giro account deposits and transactions account deposits held by the public. $M_2(Column 7) = M_1 + quasi$ money (markka time deposits held by the public, excl. deposits with the Bank of Finland). $M_3(Column 8) = M_2 +$ bank CDs held by the public.

Table 5.4 Source: State Treasury Office. Other foreign currency-denominated debt (Column 2) consists of other bonds and debentures and longterm promissory notes. Other bonds and debentures are so-called private placings; long-term promissory notes are bank loans. Miscellaneous items (Column 7) include, inter alia, the liability for coinage (total coinage), promissory notes given to international financial organizations and, as a minus item, the liability to the State Pension Fund. Outstanding lending (Col-umn 10) comprises the stock of loans granted from the central government budget and from extra-budgetary funds. Cash funds (Column 11) comprise the cash funds held in central government accounting offices, funds held in cheque and postal giro accounts, as well as placements of central government cash funds. The main part of the latter is reserved for covering transferable allocations budgeted in previous years (for details, see the article "State Borrowing and Cash Management" by Pekka Laajanen and Pekka Saarinen in the August 1987 issue of the Bulletin). Transferable allocations amounted to FIM 8.1 billion at the end of 1988.

Table 5.5 Source: Table B: Statistics Finland from the beginning of 1991. Tables A and B include markka-denominated bonds issued by Finnish issuers in Finland and abroad as well as those issued by foreign issuers in Finland. Table C includes transactions in markka-denominated bonds outside the Helsinki Stock Exchange. Interbank transactions (Column 1) and transactions (purchases and sales) between banks and customers (Column 2) are transactions by the banks entitled to central bank financing. As from 10 October 1994 the following act as primary dealers: Alfred Berg Pankkiirlilike, Evli Fixed Income Securities, Goldman Sachs International, Handelsbanken Finland, Kansallis-Osake-Pankki, Okobank, Postipankki, Skopbank, Union Bank of Finland and Unibors Securities. The primary dealers' quotes are published daily (page JVKD on Reuters). Purchases from and sales to others (Columns 4 and 5) consist of transactions in benchmark government bonds between primary dealers and other parties. Other parties refer to all parties that are not primary dealers.

Table 5.6Source: The HelsinkiStock Exchange.

6 BALANCE OF PAYMENTS, FOREIGN LIABILITIES AND ASSETS

Table 6.1 The figures for the trade and goods and services accounts are compiled in accordance with the System of National Accounts. The figures for investment income and expenditure (Columns 7 and 16) include reinvested earnings on direct investment. Preliminary data on reinvested earnings in the previous year have been included in the current account figures. (The annual figure is divided evenly between quarterly figures.) Tables 6.2-6.4 Since the begin-

Tables' 6.2-6.4 Since the beginning of 1994, the former capital account of Finland's balance of payments has been compiled according to the IMF's new recommendations (IMF Balance of Payments Manual, Fith Edition, 1993). As a result of the new classification, the contents of many of the items in the capital and financial account have been revised to some extent. In the same context, a number of other revisions and clarifications have been made. The main changes are listed below.

Table 6.2 Short-term foreign exchange transfers related to cash management flows between direct investors and their direct investment enterprises are classified as direct investment (Columns 1 and 14). Loans received by resident direct investors from group 'in-house' finance compalocated abroad (intra-group nies loans) are also classified as direct investment (Column 14). Money market instruments are classified as portfolio investment (Columns 5 and 17). Premiums and margin payments arising from transactions in financial derivatives are included as a new item under portfolio investment (Columns 6 and 18). Financial derivatives also include payments arising from currency and interest rate swaps related to loans, ie outstanding loans are recorded ac-cording to the original loan contract. Medium-term notes(MTNs) are included under bonds(Columns 3 and 16). The category other investment (Col-umns 8-12 and 20-24) covers transactions related to trade credits, loans, currency and deposits and other assets and liabilities. Transactions in assets and liabilities related to short- and long-term supplier credits and advance payments related to imports and exports are recorded under trade credits (Columns 8 and 20). The item

'Other' (Columns 11 and 23) includes transactions in short- and long-term assets and liabilities of different sectors not covered by any of the items above. In addition, this category includes changes in the central government's subscriptions to and quotas in international organizations as well as transactions in the Bank of Finland's short- and long-term assets and liabilities (excl. reserve items). The most important sub-item under the item 'other' comprises banks' other short-term assets and liabilities (in practice interbank deposits). The central bank's reserve assets (Column 27) comprise gold, special drawings rights (SDRs), the reserve position in the IMF and convertible currency claims. A negative figure implies an increase in reservatives.

Table 6.3 The data are classified as in Table 6.2. The items have been translated into markkaa using the spot rates for each date; thus the figures include the impact of changes in exchange rates.

Table 6.4 This contains data on Finland's net international investment position (liabilities less assets) classified by sector.

7 FOREIGN TRADE

Source: The National Board of Customs. All tables refer to foreign trade in goods.

Table 7.2 The volume indices (Columns 1 and 2) are calculated according to the Paasche formula and the unit value indices (Columns 3 and 4) according to the Laspeyres formula. The terms of trade (Column 5) is the ratio of the export unit value index to the import unit value index multiplied by one hundred.

Table 7.4 The regional and country grouping is based on the classification according to Finnish Official Statistics I A.

8 DOMESTIC ECONOMIC DEVELOPMENTS

Tables 8.1–8.5 Source: Statistics Finland. Seasonal adjustment is carried out by the Bank of Finland.

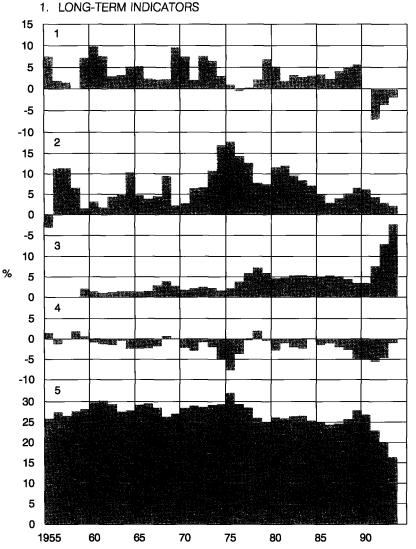
Table 8.3 The monthly indicator of GDP (Column 8) is weighted together from 11 readily available indicators of developments in output in various industries.

Table 8.4 The indicator of underlying inflation (Column 6) is the consumer price index from which the effect of indirect taxes, subsidies and housing-related capital costs (house prices and mortgage interest payments) has been removed (see the article by Pentti Pikkarainen and Timo Tyrväinen in the June-July 1993 issue of the Bulletin). Statistics Finland calculates the indicator and publishes it together with the consumer price index on the 15th of every month (or the next business day). It is lagged by one month in comparison with the consumer price index.

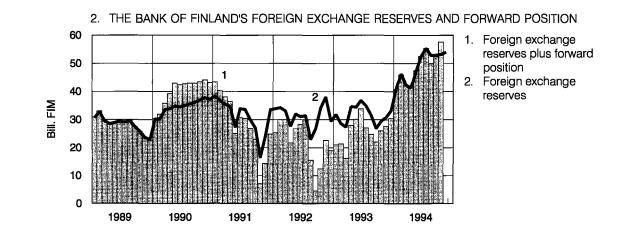
Table 8.6 Source: Ministry of Finance.

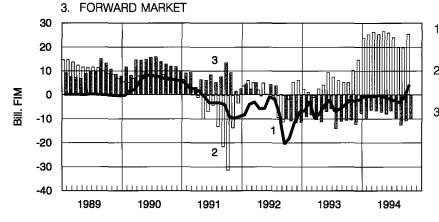
	Long-term indicators	S28
2.	The Bank of Finland's foreign exchange reserves	
~	and torward position	S29
	Forward market	S29
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5.	Banks' liquidity position with the Bank of Finland	\$30
<u>o</u> .	Liquidity management interest rates	S30
<u>/</u> .	HELIBOR rates of interest, daily	\$30
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11	Bank of Finland currency index and	551
	the markka value of the ECU	S32
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	and markka funding rates	S33
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20.	Production	S38
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30	Prices and wages	539
31.	Central government finances	S40
32.	Central government debt	Š40

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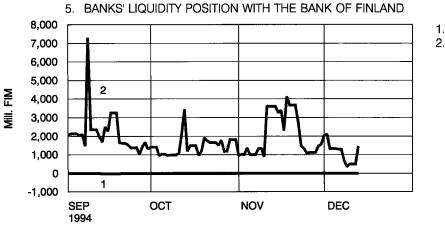
- 1. GDP, change in volume from the previous year, per cent
- 2. Consumer prices, change from the previous year, per cent
- 3. Unemployment rate, per cent
- 4. Current account, as a percentage of GDP 5. Fixed investment, as a
- percentage of GDP



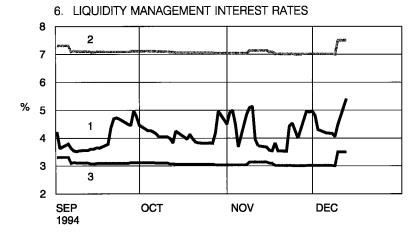


- 1. Forward exchange purchased by the Bank of Finland from banks
- 2. Forward exchange sold by domestic companies to banks
- Forward exchange sold by foreign banks to banks



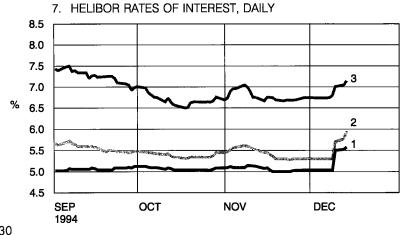


- 1. Liquidity credits (-)
- 2. Call money deposits

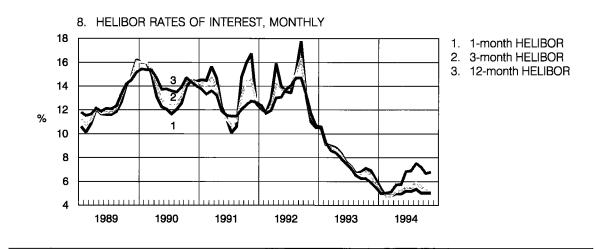


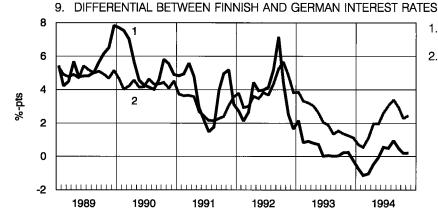
- 1. Inter-bank overnight rate
- 2. Liquidity credit rate

3. Call money deposit rate Daily observations



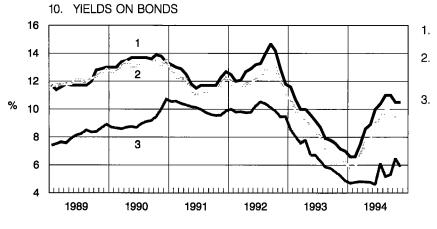
- 1. 1-month HELIBOR
- 2. 3-month HELIBOR
- 3. 12-month HELIBOR



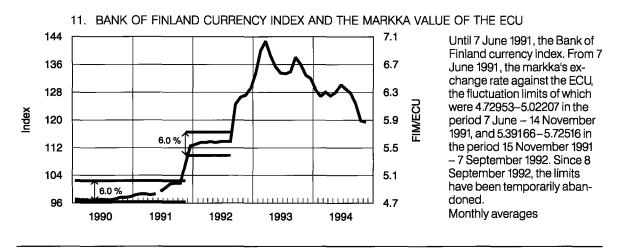


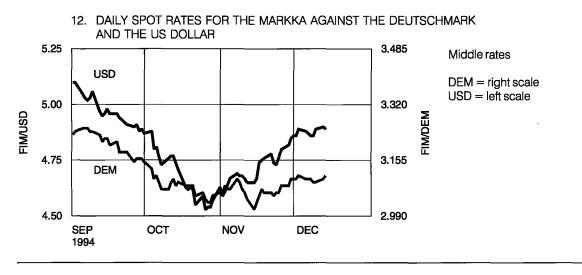
1. 3-month HELIBOR *minus* 3-month DEM eurorate

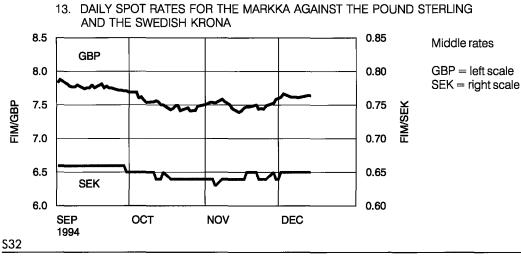
2. 5-year Finnish government bond yield *minus* 5-year German government bond yield

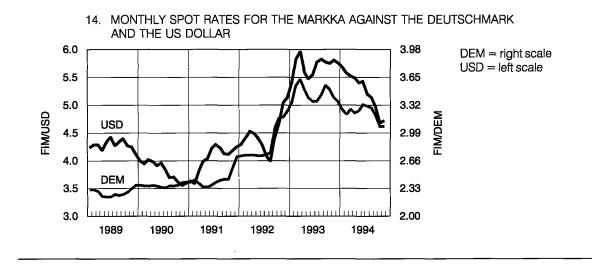


- 1. Bank of Finland's 5-year reference rate
- 2. Yield on (4–5 year) taxable government bonds
- Yield on (4–5 year) taxfree government bonds

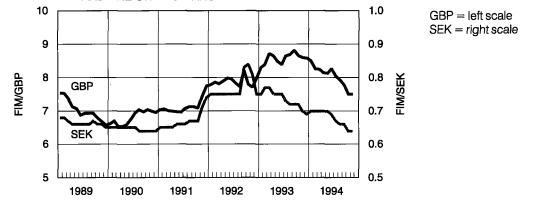


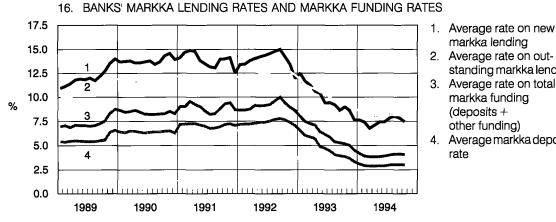


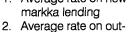




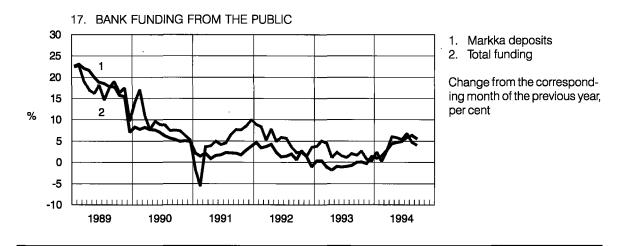
15. MONTHLY SPOT RATES FOR THE MARKKA AGAINST THE POUND STERLING AND THE SWEDISH KRONA



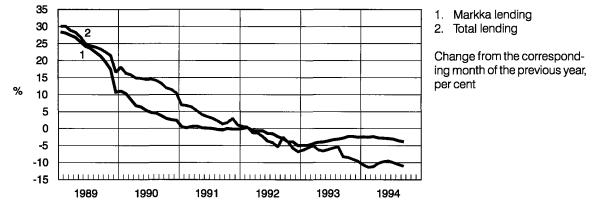


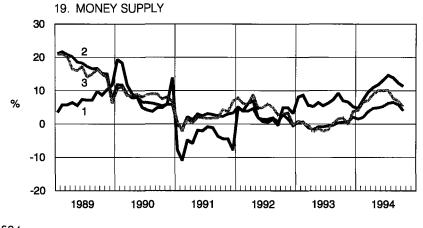


- standing markka lending 3. Average rate on total
- markka funding (deposits + other funding)
- 4. Average markka deposit rate



18. BANK LENDING TO THE PUBLIC

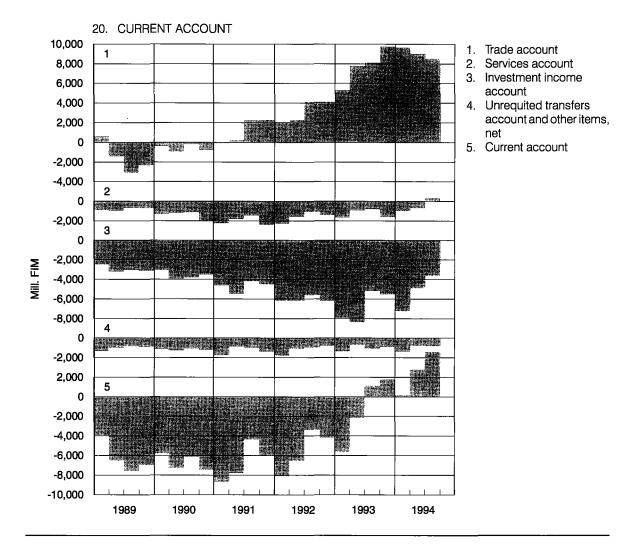


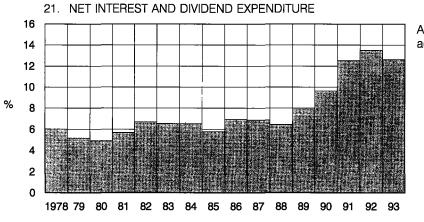


- 1. Narrow money (M1)
- 2. Broad money (M2)
- 3. M2 + bank CDs held by the public (M3)

Change from the corresponding month of the previous year, per cent

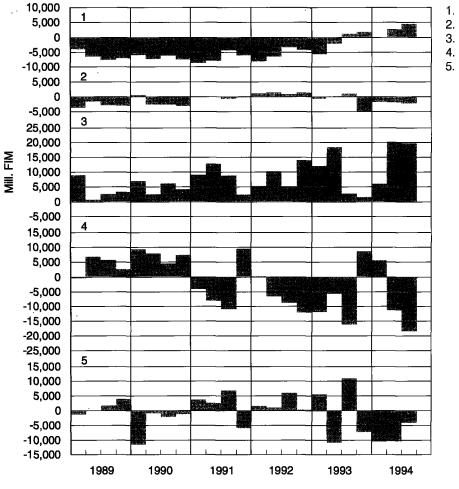
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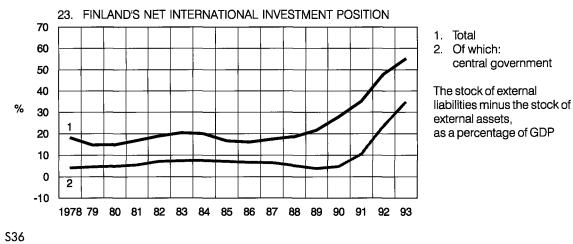


As a percentage of current account receipts

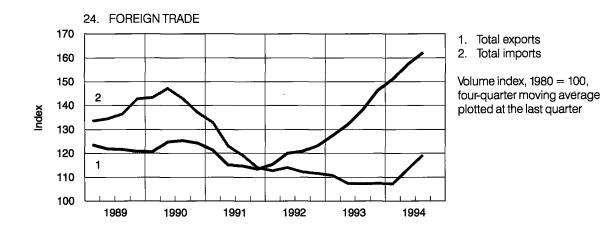
22. BALANCE OF PAYMENTS

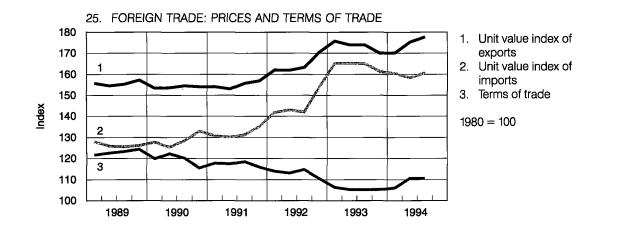


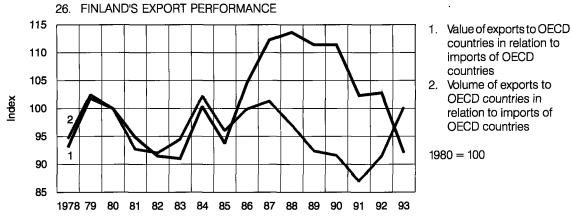
- 1. Current account
- 2. Direct investment
- 3. Portfolio investment
- 4. Other investment
- Change in central bank's reserve assets (increase = -)

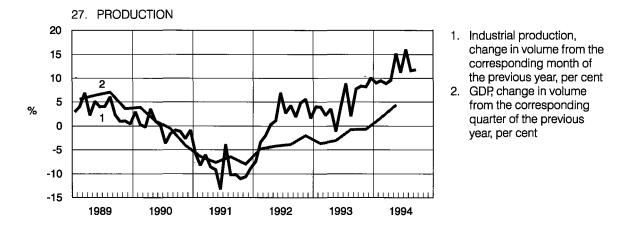


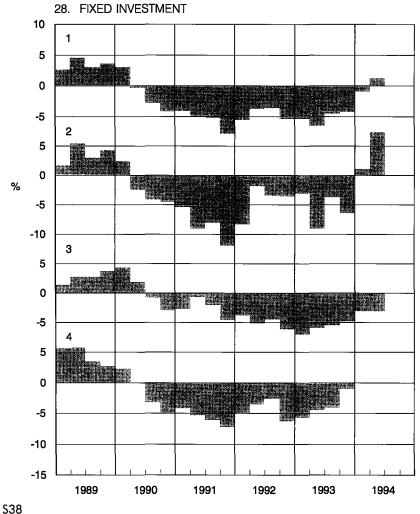






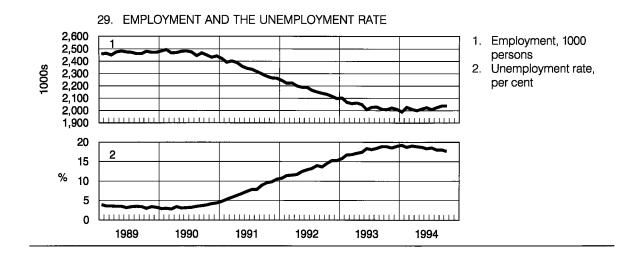


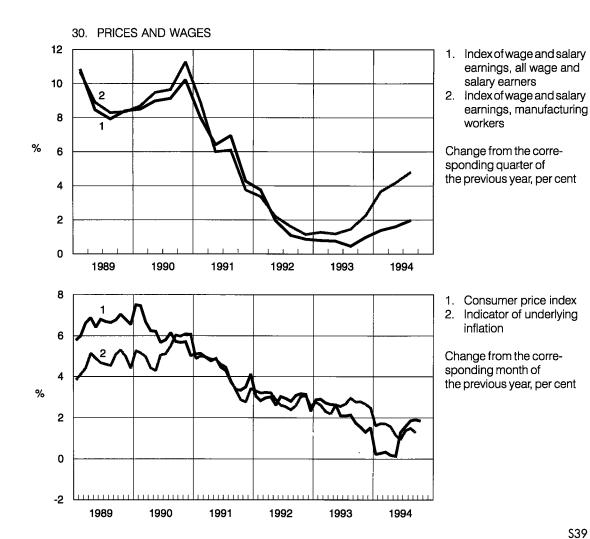




- 1. Total fixed investment
- 2. Investment in machinery and equipment
- 3. Building investment, excl. residential buildings
- 4. Residential buildings

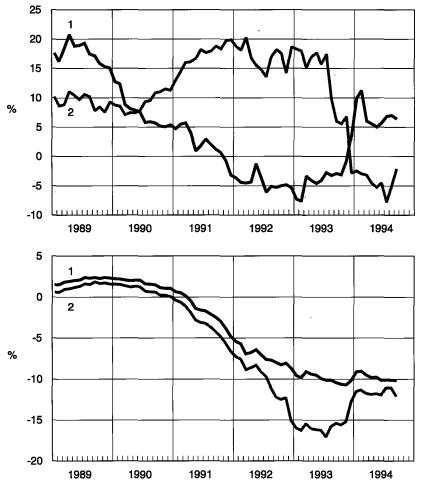
Volume changes calculated from four-quarter moving totals and plotted at the last quarter, per cent





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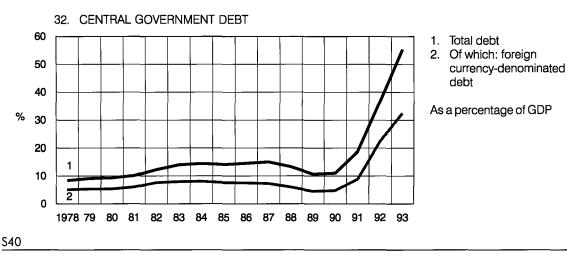


- 1. Revenue excl. borrowing
- 2. Expenditure excl. redemptions of central government debt

12-month changes calculated from 12-month moving totals and plotted at the last month, per cent

- Revenue surplus (revenue less expenditure excl. financial transactions) (surplus = +)
- 2. Net borrowing requirement (net borrowing = -)

12-month moving total as a percentage of GDP, plotted at the last month



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