

BULLETIN

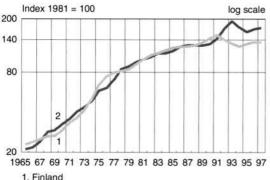
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Have the dynamics of Finnish inflation changed?

The development of the Finnish forward exchange market

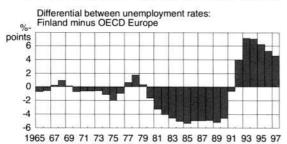
Chart 1.

Unit labour costs in manufacturing, in common currency



Finland
 Competitor countries





grew dramatically. At the same time, uncertainties related to exchange rates and inflation pushed up interest rates in Finland. As interest rates were also high internationally, the debt servicing costs for Finland soared in the early 1990s. In order to reduce its current level of indebtedness, Finland must maintain a clearly positive balance of trade and levels of competitiveness well above its historical average for years to come.

Importantly, the pass-through mechanism did not work as before when the external value of the markka depreciated drastically in 1992 and 1993. Instead, foreign producers took the depressed market situation in Finland into account in their pricing. After the markka was floated, they seem to have predicted that the markka would not stay at its low level for long. Patience regarding changes in the markka's external value has also been manifested on later occasions.

In other respects, however, cogent evidence of a change in the pass-through of changes in import prices and exchange rates to domestic prices is scarce. The profit margins of Finnish firms have slowly narrowed since the early 1980s, probably due to ever-intensifying competition. Their further narrowing in the 1990s can be seen most likely just as a continuation of this trend.

Inflation expectations

Under the devaluation cycle regime, the hefty depreciation of the markka in 1991 and 1992 would have meant a new round of inflation shortly thereafter. Indeed, this assumption was widely included in economic forecasts of the period.\(^1\) Most forecast errors for 1993 and 1994 reflected erroneous exchange rate expectations, assuming wrongly that the markka would stay at the weak level it had reached at the beginning of 1993. Additionally, Finnish forecasting institutions displayed an almost universal tendency to underestimate the impact of economic recession on wage developments, which in turn caused further overestimation of future inflation.

Learning to cope with these new circumstances was slow. Many observers continued to expect that the effects of devaluation would pass through to domestic prices and wages – even though achieving low inflation had already become a cornerstone in international economic policies, and even though the Bank of Finland had announced in early 1993 an inflation target of around 2 per cent annually. From today's perspective, it is striking that inflation expectations tended to exceed actual inflation for so long, given that the central bank had made it clear that it preferred adjustments through appreciation of the markka rather than higher inflation.

Hukkinen and Suvanto (1997) have surveyed Finnish inflation forecasts and forecast errors of the 1990s.

Towards mid-1993, the markka started to appreciate. The floating exchange rate and market-driven financial system had created a new framework for interaction between the external value of the markka and domestic interest rates.

Inflation forecasts also overshot actual inflation in 1995 and 1996, but not because of misprediction of exchange rate developments as before. Import prices rose slower than expected and Finland's membership in the EU reduced food prices more than anticipated, but the largest errors appear to have been made in the estimation of wage developments. Expectations related to future wage inflation were raised by the outcome of wage negotiations at the end of 1994 and rhetoric used in the labour market at that time. Contracts for 1995 signed at industry level raised labour costs far more than might be expected in an environment of mass unemployment (Chart 2). This apparently fuelled inflation expectations and led forecasters to predict a rise in inflation rates.

Given the worrying inflation signals, the central bank tightened its monetary stance between December 1994 and June 1995. Although the bank's decisions did not have a large effect on interest rates as a whole, the publicity surrounding the decisions helped assure financial markets and labour market participants that the bank was serious in its efforts to curb any acceleration of inflation. The Bank of Finland's new policy, introduced in 1993, of stating an explicit inflation target helped to calm inflation expectations.

Given the improved credibility of the central bank's monetary stance, market confidence was boosted by low inflation internationally and, in particular, the new government's avowed commitment to budgetary consolidation and low inflation. Once the government had received support of the trade unions for its policy, the moderate wage settlement of autumn 1995 (valid until the beginning of 1998) was what dealt the decisive blow to inflation expectations. Thereafter, subdued inflation expectations could clearly been seen in business surveys and in the pricing of money-market instruments.

Wage flexibility and unemployment

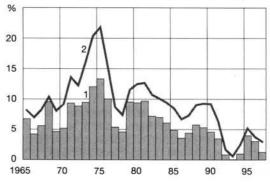
Should the current trend of moderate growth of labour cost continue, it would mean a remarkable and important change from past decades has taken place. And, as noted above, it would also mean an end to devaluation cycles.

On the other hand, if, and to the extent that, today's moderate wage demands are due to high unemployment, why should we expect such moderation to persist when unemployment falls? Could there be a scramble for higher wages when those with jobs, the 'insiders', feel secure enough to start pushing demands that are excessive from the standpoint of national interest? We don't know for sure.

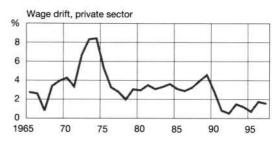
What we do know is that labour costs measured in national currencies fell in relation to competitor

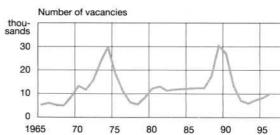
Chart 2.

Wages and demand for labour in Finland



- Contract wages, private sector
- 2. Total wages, private sector





countries in particular in 1992–1994, ie the period when the traditionally low unemployment in Finland rocketed to levels above those of competitor countries (Chart 1). Thereafter, the rise in unit labour costs has been by and large the same for Finland as it has been for competitor countries. Will an upward shift in wage inflation take place when a decline in unemployment is achieved? Given the structural change that has already taken place and the ever-increasing degree of competition, it is not straightforward to consider it as major risk.

A word of caution is, however, needed: The traditional institutional framework of wage formation from earlier decades has been preserved more or less intact, so the preconditions for insider behaviour² have not changed much. An important implication for Finland's current economic debate is that insider behaviour could also undercut the efficacy of measures such as tax relief. If the desired wage moderation is not produced, the resulting improvements in employment will not take place. After all, Finland has still done little to change the structures which define the rules determining the behaviour of various agents in its labour market.

Certain traditional features in the Finnish system of collective agreements have made the country particularly inflation prone. These features still exist, and may cause problems in the new environment of low inflation.

In particular, the collective practices followed in Finland allow for what have been called multiplication and springboard mechanisms in wage setting. A multiplication mechanism is invoked in contract situations where all employees get a general pay rise on the basis of the overall productivity growth of the national economy or the industry concerned. Such increases are paid irrespective of whether the individual's own productivity has increased or if a person's work is directly tied to a productivity enhancement. Further, structural wage drift occurs as a result of local pay increases which compensate, for example, for rises in educational levels and transfer of employees to more demanding tasks. Of course, part of the general increase in productivity rewarded with the across-the-board raise is specifically due to factors such as those mentioned above. What happens, thus, is that many employees are rewarded twice for the increased productivity; first with a general pay rise, then with a personal raise.

A springboard mechanism, by contrast, means that an across-the-board increase at company level is only used as a starting point in local negotiations. Firm-specific arrangements contribute to wage drift which is paid on top of the collective settlement.

For decades, wage setting characterized by multiplication and springboard effects have fostered labour cost growth in Finland at rates unsus-

² Insider behaviour occurs when employed 'insiders' do not take interests of unemployed 'outsiders' into account (in their wage demands).

tainable in an environment of low inflation. However, we have seen an encouraging shift in wage discussions in recent years. With the exception of the 1995 industry-specific settlements, whose effects can be clearly seen in both the 1995 and 1996 figures (Chart 2), realism and moderation in wage demands have so far predominated. Wage drift, too. has remained quite low. Thus, if inflation expectations of all relevant parties remain in check and uniform, it is quite conceivable that balanced development in Finnish wage formation can be achieved. It will be all the easier, the less the favourable trend in interest rates, as well as the production and productivity growth supported by low rates, is tested by excessive branch-specific wage demands that could raise inflation fears.

Wage-wage links

Over the long haul, sound structural development of a national economy requires that changes in wage structure keep pace with changes in other structures in the economy so that the balance of labour supply and demand is maintained. Wage inflation may result as a byproduct of attempts to interfere with this natural adjustment process of the wage structure.

Finnish wage paths have been strikingly similar in all industries. Wage-wage links in manufacturing have been so strong that, on average, wages in high-paying industries and low-paying industries have risen by approximately equal amounts over the long run. Whenever there have been attempts to bolster the relative position of low-paying industries through national income policies, the wage reaction in high-paying industries has quickly restored the earlier wage structure. In other words, attempts to compress wage differentials through institutional decisions have repeatedly triggered swift reactions by both trade unions and employers in powerful industries to nullify the change. The reaction process has been so rapid that it obviously has occurred through additional wage drift (Tyrväinen 1996).

Thus, attempts to narrow wage differentials by means of collective incomes policy have merely accelerated inflation. The original wage structure has been restored so quickly that the only quantifiable effect of 'solidaristic' wage policies was impairment of Finland's international competitiveness. In fact, these frequent attempts to compress wage structures through incomes policy were part of the behaviour that fuelled domestic inflation and led to repeated devaluations. Although empirical estimates indicate that the process seems to have changed after 1991, it is still premature to conclude that the driving force of wage-wage competition has weakened permanently.

Asset prices and inflation

In the past, shifts in housing prices, share prices and stumpage prices gave early warnings of general changes in inflationary pressures (Pikkarainen and Ripatti 1995). Of the three prices mentioned, stumpage prices, according to the historical record, were the best leading indicator of future changes in consumer price trends. By raising stumpage prices, forest owners sought to extract their share of the higher profitability conferred on forest products producers through devaluations. Very quickly, expectations of a recovery drove up prices for shares and housing. Thereafter, inflationary expectations became contagious, 'infecting' all sectors, one after the other.

Low inflation policy that makes price stability the norm for economic agents, steers expectations and prevents price disturbances from spreading from one industry to another. The success of such policies may explain why recent, sometimes significant, changes in asset prices have not been reflected in the general inflation climate. For example, the rapid rise in stumpage prices, before their reversal in early 1995, was not reflected in the general inflation picture. Nor have the recent brisk rises in share and housing prices triggered a general inflation psychosis³. This is behaviour truly different from what Finns are accustomed to.

The road ahead

In our current boom, the mechanisms that drove the traditional devaluation cycle in Finland have not functioned as they did previously. In fact, it would be impossible to recreate past behaviour patterns given the present freedom of financial markets and capital. Additionally, the mechanism that determines inflation expectations has itself changed partly because of the reason above. In both price setting and wage formation, inflation now plays a smaller role than at any time since the end of the second world war. This shift in domestic inflation expectations has been encouraged by the fact that inflation is now low throughout the industrialized world. In Europe, the expectation that EMU will be realized also helps keep inflation expectations in check.

When union leaders and rank-and-file membership accept low inflation as a lasting phenomenon, wage negotiations can focus on real wage developments. This supports moderate wage claims and makes it less straightforward to interpret impulses from specific markets as early indications of a general acceleration in inflation.

³ Due to an exceptional technical feature of the consumer price index as calculated by Statistics Finland, changes in house prices have an impact on the index even when they do not influence wage earners' purchasing power. Because wage demands have regularly been based specifically on the rise in the CPI, there is a risk that rises in house prices may increase compensation pressures in the future, if the labour market parties cannot take the role of house prices properly into account. Although structural unemployment in Finland is high (Tyrväinen 1996a), the greatest risk of acceleration in domestic inflation probably lies in labour market behaviour. This risk would materialize, for example, if employed insiders chose to work for their own group interests and ignore the interests of unemployed 'outsiders'. The conditions that encourage such insider behaviour would, however, be weakened through structural reforms in the labour market that were designed to reduce structural unemployment. The importance of such reforms is further enhanced by the fact that they also reduce the risk that an acceleration in inflation would harm efforts to lower unemployment.

While Finland's participation in ÉMU would increase confidence in sustained low inflation, to-day's need for price stability as such is not linked to the EMU decision.⁵ Rather, that need reflects the low inflation environment internationally which has been forged through increasingly intense global competition and commitments on the part of major industrialized nations to policies geared towards international economic stability.

7 August 1997

5 See also the report of the EMU expert group 1997.

 Key words: inflation, inflation expectations, competition

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⁴ The structural unemployment rate refers to that rate on both sides of which unemployment varies at the various stages of economic cycles. Structural unemployment can be lowered only by changing the labour market structures (Tyrväinen 1995).

The development of the Finnish forward exchange market

by **Jorma Hietalahti**, Economist Monetary Policy Department and **Harri Kuussaari**, Economist Information Services Department

he forward exchange contract is the most commonly used instrument among Finnish companies for hedging against exchange rate risk. The bulk of forward exchange contracts are used to eliminate exchange rate risks associated with companies' trade credits. Exporters and importers make up the foundation of the forward market for the markka. Other companies and financial institutions also operate in the forward market for the markka for the purpose of covering their foreign currency-denominated liabilities. Finnish banks enter into forward exchange contracts with both domestic companies and foreign customers. The foreign counterparty is often the bank's own foreign subsidiary or branch, either of which would be regarded as a nonresident under balance of payments definitions.

It was not until April 1980 that a genuine forward exchange market started to operate in Finland'. The forward market of the 1980s was however subject to various restrictions based on exchange controls, the most significant of which was that forward contracts had to be based on commercial background. However, in practice the commercial background requirement was not applied to foreign customers. Consequently, in the 1980s forward purchases of markkaa provided foreign investors with a flexible instrument for making markka investments, as the use of all other instruments was prohibited by the foreign exchange controls.

A deregulated forward exchange market has operated in Finland only since the start of 1991. Since the liberalization of the forward exchange market, domestic companies operating in the closed sector as well as cities and other local governments have hedged their foreign currency-denominated liabilities in the forward market. The devaluation of the markka in 1991 was particularly significant in raising the level of interest in forward exchange contracts, as many companies and local

governments that had obtained foreign currencydenominated loans had incurred substantial exchange rate losses owing to the devaluation.

Volume of business in the forward exchange market

Since the start of the 1980s, the volume of business in the forward exchange market has continued to increase, fluctuating in accord with the level of activity in the money and foreign exchange markets (Chart 1). Until the start of the 1990s, Finnish banks purchased more forward exchange from foreign banks than from domestic counterparties. In the 1990s the situation has reversed and presently domestic companies constitute the most important counterparties for banks' forward purchases of foreign currency, as measured by volume of business. As regards sales of forward currency, the share of foreign counterparties has almost continuously been larger than that of domestic counterparties. In the 1990s the share of domestic counterparties has increased but at its peak has only amounted to about 50 per cent of the total volume of banks' forward sales contracts. The Bank of Finland has operated in the forward market both as buyer and seller but only to a limited extent.

The maturities of forward exchange contracts between banks and domestic companies have been on average longer than those of contracts between banks and foreign customers. In forward contracts with foreign customers, the counterparty is usually another bank, and forward transactions between banks focus on shorter maturities.

The countercurrency in forward contracts involving the markka has most often been the US dollar or the Deutschemark. Forward rates on these currencies have usually been higher than spot rates, ie they have had a forward premium against the Finnish markka (Chart 2). The speculative situations in the foreign exchange market in 1986, 1991 and 1992 were marked by substantially higher-than-normal forward premia on the dollar. However, as a result of the decline in the level of Finnish interest rates, forward rates on many foreign currencies have fallen below corresponding spot rates, and thus there has been some switching from forward premia to forward discounts in recent years.

This article is based on a study on the operation of the forward exchange market in Finland, 'Valuuttatermiinimarkkinoiden toiminta Suomessa' (in Finnish) by Jorma Hietalahti and Harri Kuussaari, Bank of Finland Discussion Paper 10/97.

¹ Tom Nordman: Forward exchange markets in Finland. Bank of Finland Monthly Bulletin, April 1980.

The net forward position of the banking system

The gross amounts of banks' forward exchange sales and purchases reflect the volume of business in the market. However, these gross figures are sometimes boosted by offsetting forward contracts entered into by banks' customers, for instance when their exchange rate expectations change. By deducting banks' gross forward exchange sales from their gross forward exchange purchases, one obtains the banks' net forward position, which reflects banks' customers' genuine need to hedge through forward exchange contracts.

A bank will hedge a net open forward position against exchange rate risk via offsetting capital flows, ie by entering into offsetting transactions with foreign counterparties. If a bank's net forward position is positive, ie the value of forward exchange purchases exceeds the value of forward exchange sales, the bank usually hedges its position via foreign currency-denominated borrowing. If forward sales exceed forward purchases, ie the net forward position is negative, the bank will hedge via foreign

Banks' net forward position is also influenced by the Bank of Finland's interventions in the forward exchange market, which are sometimes effected in order to dampen gyrations in reserve assets and in money market liquidity. Otherwise-immediately-visible changes in reserve assets can be postponed via interventions in the forward exchange market. Nonetheless, the Bank of Finland's interventions in foreign exchange markets are more often spot transactions.

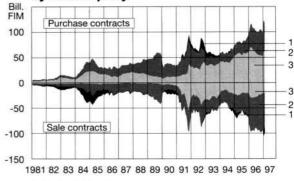
In speculative situations, banks' net forward exchange position will often reflect not only the commercial background but also views as to the external value of the markka. From the standpoint of exchange rate expectations, if a market participant has a positive net forward position, this means that he expects the markka to strengthen. Correspondingly, a negative net forward exchange position often points to expectations of markka depreciation.

Period of exchange control: 1980-1990

Banks' positive net forward position vs their domestic customers began to grow right at the onset of the 1980s, with the birth of the Finnish forward exchange market (Chart 3). The differential between domestic and foreign interest rates was exploited mainly by export companies. A hike in the Bank of Finland's call money credit rate in 1983 was the major impetus for export companies' forward sales of foreign currency. Consequently, banks' positive net forward position vs their domestic customers increased by about FIM 14 billion between 1981 and 1985. The Bank of Finland nonetheless intervened in order to curb the increase in reserve assets and liquidity, especially in 1984.

Chart 1.

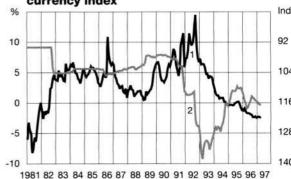
Banks' outstanding forward contracts by counterparty



- 1. Bank of Finland
- Foreign banks
- Corporate customers

Chart 2.

US dollar forward vs spot rates and currency index



- - Deviation from spot rate of US dollar one month forward selling rate, % p.a. (left scale) 2. Bank of Finland's trade-weighted currency index (rising curve = markka strenghtens), 1982 = 100 (right scale)

Chart 3.

Banks' net forward position vs Finnish customers

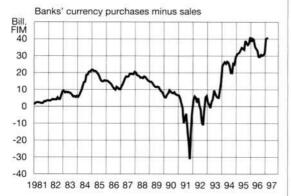
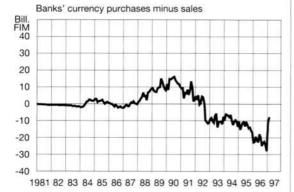


Chart 4.

Banks' net forward position vs foreign customers



The interest rate differential during the first half of the 1980s also attracted foreign investors. Banks' net forward position vs foreign customers however remained small, as forward sales and purchases of markkaa were of roughly the same magnitude (Chart 4). Offsetting forward contracts, ie sales of markkaa by foreign customers, derived mainly from the need of foreign investors to hedge their markka-denominated bond portfolios against exchange rate risk.

From 1985 to 1990 nonresidents were prohibited from investing in markka-denominated bonds because of concerns related to liquidity management. The forward exchange market provided investors with an alternative form of benefiting from high interest rates on the markka. In the latter half of the 1980s, banks' positive net forward position vs foreign customers grew by about FIM 10 billion, peaking in 1990 at about FIM 16 billion.

Between 1985 and 1990, net capital inflows for covering forward contracts were however very small, as the increase in purchases of forward markkaa by foreign investors was offset by domestic companies' unwinding of forward contracts entered into at the onset of the 1980s. Banks' positive net forward position vs domestic customers decreased by about FIM 9 billion between 1985 and 1990. One of the main reasons for this was the companies' growing expectations of markka weakening.

Banks' positive net forward position vs domestic customers grew substantially in the 1980s, although because of exchange control banks' domestic customers were limited to export and import companies. Export companies in particular took advantage of the wide differential between domestic and foreign interest rates. Owing to exchange control, foreign investors became increasingly active in the forward market, especially between 1985 and 1990. This was a period during which markka investments in other instruments were prohibited. Purchases of forward markka became a substitute for investments in markka bonds, and this was reflected in rapid growth in banks' net forward position vs foreign customers.

Devaluation expectations in 1991 and 1992

The forward exchange market was deregulated at the start of 1991. During the same year there were serious market disturbances in the money and foreign exchange markets, which were clearly reflected in the forward exchange market (Chart 5).

Expectations of a devaluation of the markka started to strengthen already in spring 1991. Discussion about the exchange rate at which the markka should be linked to the ECU fostered uncertainty as to whether the markka's exchange rate would hold. This was reflected in Finnish companies' forward purchases of foreign currency, which amounted to about FIM 16 billion in January–May.

In the early months of the year, foreign investors also reduced their forward purchases of markkaa, when confidence in the stability of the markka's exchange rate started to waver.

In autumn 1991 economic policy credibility was undermined by the slow progress of wage negotiations. Rumours of impending devaluation strengthened and domestic companies increasingly lost confidence in the markka. This was reflected in their forward purchases of foreign currency, which amounted to FIM 27 billion in August–October. On 15 November 1991 the external value of the markka was lowered by 12.3 per cent.

Before the devaluation, banks' negative net forward position vs domestic customers was almost FIM 40 billion more against the markka than at the start of 1991. Foreign investors' confidence in the markka lasted considerably longer than that of domestic companies. Before the devaluation, banks' positive net forward position vs foreign customers was almost the same as at the end of July 1991.

In November 1991, immediately after the devaluation, domestic companies sold foreign currency worth FIM 18 billion in the forward market, which means that a notable share of the foreign currency purchased before the devaluation was converted back into markkaa at the favourable post-devaluation exchange rate. However, banks' net forward position vs foreign customers did not return to its pre-devaluation level by the end of the year.

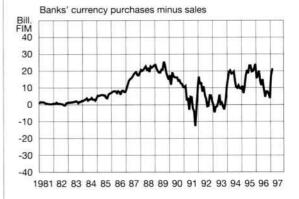
Sustainable confidence in the external value of the markka was not restored by the 1991 devaluation. In the forward exchange market, signs of a lack of confidence in the markka started to appear in spring 1992. In April–August, forward purchases of foreign currency amounted to about FIM 23 billion.

In the first week of September 1992, the situation came to a head. During one week, banks sold foreign currency worth about FIM 20 billion in net terms, of which amount net forward sales of foreign currency accounted for FIM 15 billion. However, the Bank of Finland's forward interventions during the same period amounted to FIM 12 billion. The markka was allowed to float on 8 September 1992, as there were no signs of a calming of conditions in the domestic money market.

After the float had begun, banks' domestic customers started to repatriate their foreign currency receivables and convert the foreign currency back into markkaa. In the latter half of the year, domestic customers sold FIM 26 billion worth of foreign currency in the forward market. Despite the devaluation, foreign currency purchased before the floating of the markka was not converted back into markkaa; instead, companies and banks used it to repay their foreign currency liabilities. As a result, Finland's foreign reserve assets increased slowly toward yearend. By contrast, foreign customers continued to sell markkaa. Their forward sales of markkaa amounted to about FIM 6 billion between the start of the float and the end of 1992.

Chart 5.

Banks' net forward position vs all customers



In 1991 forward purchases of foreign currency were made almost exclusively by large export companies. However, when the 1992 speculation started, also companies operating in the sheltered sector joined in, covering their foreign currency liabilities and import-related trade credit liabilities. Local governments also started to hedge their foreign currency liabilities more actively. Several sheltered-sector companies as well as local governments had suffered considerable exchange rate losses in connection with the 1991 devaluation, as they had neglected to hedge their foreign currency liabilities.

Period of the float and the ERM linkup

In the liberalized market conditions of the 1990s, the volume of forward contracts entered into by banks' domestic customers has increased notably (Chart 3). At the end of 1995 banks' positive net forward position vs domestic customers reached a record high, about FIM 41 billion. A major factor contributing to this development has been the rapid growth of exports and export receivables. In 1996 banks' net forward position vs domestic customers decreased by almost FIM 10 billion, partly as a result of strengthening expectations of the markka's linkup with the exchange rate mechanism of the European Union (ERM). When expectations of the ERM linkup began to strengthen the markka toward vearend, export companies did not roll over all of their forward contracts.

Between 1991 and 1996 companies' forward sales of foreign currency increased twice as fast as export credits, despite the rapid growth of exports. At the end of 1996 the stock of forward contracts sold by banks to companies was almost twice as large as import credits.

Since the markka was floated, banks' net forward position vs foreign customers has moved in the opposite direction compared with domestic customers. At the end of 1996 banks' negative net forward position vs foreign customers amounted to about FIM 29 billion (Chart 4). The increase in the negative net forward position has been largely the result of a rapid contraction in banks' foreign currency liabilities in the last few years. The meltdown of foreign liabilities has meant that foreign currency-denominated liabilities have no longer been used as counteritems for banks' currency positions. Banks have fulfilled their currency position requirements by increasing their forward exchange liabilities, mostly with their own foreign branches.

In January 1997 the markka became subject to intense upward pressure. Investors (mostly foreign) purchased markkaa to the total amount of about FIM 30 billion during a period of about one week. This pressure exceeded the devaluation pressures experienced in 1991 and 1992. It must however be noted that the speculation of January 1997 was caused by upward pressure on the markka, not downward pressure as in 1991 and 1992, and these pressures turned out to be relatively short-lived. Another important difference was that the speculators now consisted almost exclusively of foreign investors. Of the markka investments made by foreign investors, about FIM 17 billion worth comprised forward contracts.

27 June 1997

 Key words: forward exchange contracts, foreign exchange markets, capital flows

Item

Two new currencies added to the Bank of Finland currency index

On 1 July 1997, two currencies were added to the Bank of Finland trade-weighted currency index: the Estonian kroon (EEK) and the Republic of Korea (South Korea) won (KRW). After the change, the currency index includes 16 currencies and covers about 75 per cent of Finland's foreign trade. The index weight of the kroon is 2.6 per cent and that of the won 1.4 per cent. The new weight structure of the currency index is as follows:

	%
Deutschemark (DEM)	18.8
Swedish krona (SEK)	14.9
Pound sterling (GBP)	12.7
US dollar (USD)	9.5
French franc (FRF)	5.9
Japanese yen (JPY)	5.5
Dutch guilder (NLG)	5.4
Norwegian krone (NOK)	4.8
Italian lira (ITL)	4.6
Danish krone (DKK)	4.3
Belgian franc (BEF)	3.8
Estonian kroon (EEK)	2.6
Spanish peseta (ESP)	2.5
Swiss franc (CHF)	1.9
Austrian schilling (ATS)	1.4
Republic of Korea won (KRW)	1.4
	100.0

Measures concerning monetary and foreign exchange policy and the financial markets

1996

FEBRUARY

Base rate. The Parliamentary Supervisory Council lowers the Bank of Finland's base rate from 4.75 per cent to 4.50 per cent with effect from 1 February.

MARCH

Tender rate. On 13 March, the Bank of Finland lowers its tender rate from 4.25 per cent to 3.75 per cent. In addition, the interest rate on banks' excess reserves is cut from 2.25 per cent to 1.75 per cent.

MAY

The Government Guarantee Fund moves to the Ministry of Finance. On 1 May, the Government Guarantee Fund ceases to operate as a separate unit and its employment contracts are allowed to expire. The Fund, which was previously subordinate to Parliament, is made subordinate to the Council of State, operating in connection with the Ministry of Finance. Fund personnel are also transferred to the Ministry.

The Government takes over Sponda. On 23 May, the Finnish Government purchases the entire share capital of Sponda Oy at a purchase price of FIM 1 232 million. The Bank of Finland originally set up Sponda Oy in 1991 to manage the real estate and equity assets transferred from Skopbank after the bank ran into severe liquidity and solvency problems.

JUNE

Currency Act amended. On 10 June, the amendments to the Currency Act enter into force. The amendments enable the joining of the markka to the EU Exchange Rate Mechanism (ERM).

Tender rate. On 14 June, the Bank of Finland lowers its tender rate from 3.75 per cent to 3.60 per cent. In addition, the interest rate on banks' excess reserves is cut from 1.75 per cent to 1.60 per cent.

JULY

Tender rate. On 5 July, the Bank of Finland lowers its tender rate from 3.60 per cent to 3.50 per cent. In addition, the interest rate on banks' excess reserves is cut from 1.60 per cent to 1.50 per cent.

AUGUST

Bank of Finland's guidelines for credit institutions. On 1 August, the Bank of Finland issues its monetary policy-related guidelines for credit institutions as a complete set. The contents remain essentially unchanged.

Tender rate. On 23 August, the Bank of Finland lowers its tender rate from 3.50 per cent to 3.25 per cent. In addition, the interest rate on banks' excess reserves is cut from 1.50 per cent to 1.25 per cent.

SEPTEMBER

Base rate. The Parliamentary Supervisory Council lowers the Bank of Finland's base rate from 4.50 per cent to 4.00 per cent with effect from 16 September.

Tender rate. On 18 September, the Bank of Finland lowers its tender rate from 3.25 per cent to 3.10 per cent. In addition, the interest rate on banks' excess reserves is cut from 1.25 per cent to 1.10 per cent.

OCTOBER

Tender rate. On 9 October, the Bank of Finland lowers its tender rate from 3.10 per cent to 3.00 per cent. In addition, the interest rate on banks' excess reserves is cut from 1.10 per cent to 1.00 per cent.

Finland joins the ERM. Finland joins the EU Exchange Rate Mechanism (ERM) as of 14 October 1996.

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 68 % 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 21° C (70° F) in July and –3° C (25° F) in February.

Finland has a population of 5 132 320 (31 December 1996) and an average population density of 17 per square kilometre. The largest towns are Helsinki (Helsingfors), the capital, with 532 053 inhabitants, Espoo (Esbo) 196 260, Tampere (Tammerfors) 186 026, Vantaa (Vanda) 168 778

and Turku (Abo) 166 929.

There are two official languages: 93 % of the population speaks Finnish as its mother tongue and 5.7 % 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 1995, the seats of the various parties in Parliament are distributed as follows:

parties in Parliament are distributed as follows:

Social Democratic Party 63; Centre Party 44; National Coalition Party 39; Left Wing Alliance 22; Swedish People's Party 12; Green League 9; Christian League 7; Progressive Finnish Party 2; Rural Party 1; and Ecological

Party 1.

Of the 18 ministerial posts in the present Government appointed in April 1995, 7 are held by the Social Democratic Party, 5 by the National Coalition Party, 2 by the Left Wing Alliance, 2 by the Swedish People's Party, 1 by the Green League and 1 by an expert with no party affiliation. The Prime Minister is Mr Paavo Lipponen of the Social Democratic Party.

Finland is divided into 452 self-governing 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, the EBRD in 1991 and the EU in 1995.

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 having been ratified by each Member State, Finland became 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 500 billion in basic values in 1996, 2 % was generated in agriculture and fishing, 2 % in forestry, 26 % in industry, 6 % in construction, 11 % in trade, restaurants and hotels, 9 % in transport and communications, 4 % in finance and insurance, 21 % in other private services and 19 % by producers of government services. Of total employment of 2.1 million persons in 1996, 7.1 % were engaged in primary production, 27.6 % in industry and construction and 65.3 % in services.

In 1996, expenditure on the gross domestic product in purchasers' values amounted to FIM 574 billion and was distributed as follows: net exports 8 % (exports 38 %, imports –30 %), gross fixed capital formation 16 %, private consumption 54 % and government consumption 22 %. Finland's tax ratio (gross taxes including compulsory employment pension contributions relative to GDP) was 48.2 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 1950-96. Finland's GDP per capita in 1996 was USD 22 000.

Foreign trade. EU countries absorb the bulk of Finnish merchandise exports. In 1992-1996 their average share was 51.7 %. Over the same period, Finland's exports to other European countries (including Russia) accounted for 23.4 % and to the rest of the world for 24.9 %. The regional distribution of Finland's merchandise imports in the same period has been quite similar to that of exports: EU countries accounted for 51.4%, other European countries for 24.7 % and the rest of the world for 23.9 %

In 1996, the share of forest industry products in total merchandise exports was 30 %, the share of metal and engineering products 40 % and the share of other goods 30 %. 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 21 %.

Forest resources. Finland has fairly abundant forest resources, but only limited amounts of other raw materials. The growing stock comprises 1 887 million cubic metres, of which 46 % is pine, 36 % spruce and 18 % broad-leaved species, chiefly birch.

The annual growth increment totals 77 million cubic metres and the total drain was about 62 million cubic metres in 1995.

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 penniä (singular: penni). From 1 November 1977 to 7 June 1991 the external value of the markka was officially expressed in terms of a trade-weighted 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 fluctuation limits of the markka were abandoned and the markka was allowed to float. On 14 October 1996, the markka was joined to the Exchange Rate Mechanism (ERM) of the European Monetary System (EMS) at the central rate of 5.80661 per ECU. As from 25 November 1996 the ECU central rate is FIM 5.85424.

The Central Bank. The Bank of Finland (Suomen Pankki - Finlands Bank), founded in 1811, operates under the supervision of the Parliamentary Supervisory Council, 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 Council, 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 liaises 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 1996). Finland has three major groups of deposit banks with a total of 1 447 offices. There are two big commercial banks with national branch networks and five smaller ones. The commercial banks have a total of 14 foreign branches, subsidiaries and associate banks and 18 representative offices abroad. There are 40 savings banks and 298 cooperative banks with their own extensive branch networks. In addition, four foreign banks have branches in Finland and nine foreign

banks have representative offices.

Financial market. Of the total stock of FIM 685 billion in outstanding domestic credit at the end of September 1996, 49 % was provided by deposit banks, 5 % by insurance companies, 23 % by pension insurance institutions, 12 % by other credit institutions and 11 % by state and 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, 67 % of the instruments, which totalled approximately FIM 135 billion at end-1996, were bank certificates of deposit (including central bank paper). Other negotiable money market instruments consist of Treasury bills, commercial paper and local authority paper.

There are 71 listed companies on the Helsinki Stock Exchange, with a market capitalization value of FIM 285 billion (at end-1996). Domestic bonds and debentures in circulation at end-1996 totalled FIM 254 billion; government bonds made up 71 % of the total. Turnover on the Stock Exchange in 1996 amounted to FIM 102 billion; the share of shares and subscription rights in the total was approximately 99 %.

STATISTICS

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1. The balance sheet of the Bank of Finland

1.1 The balance sheet of the Bank of Finland, mill FIM

	1996		199	7	
	31 Dec.	8 July	15 July	23 July	31 Jul
ASSETS					
Reserve assets	36 397	60 275	61 899	64 019	64 475
Gold	1 742	1 742	1 742	1 742	1 742
Special drawing rights	1 344	1 284	1 373	1 736	1 557
IMF reserve tranche	1 953	1 981	1 997	1 999	2 023
ECU-claim on the European Monetary Insitute	2 541	3 990	3 939	3 937	3 965
Foreign exchange assets	28 817	51 278	52 848	54 604	55 189
Other foreign claims	3 853	4 243	4 243	4 243	4 243
Markka subscription to Finland s quota in the IMF	3 794	4 183	4 183	4 183	4 183
Share in the European Monetary Institute	59	60	59	59	60
Claims on financial institutions	13 497	11 435	11 673	13 327	13 32
Liquidity credits	1 -	-	-		11070-7070
Securities with repurchase commitments	11 626	8 679	8 921	10 575	10 575
Term credits		-	-	1 -	1155.05.117
Bonds	196	152	152	152	152
Other claims on financial institutions	1 676	2 604	2 600	2 600	2 600
Claims on the public sector	1 906	1 921	1 921	1 921	1 92
Treasury bills		-	-	-	. 02
Bonds	-	_	_	_	
Total coinage	1 906	1 921	1 921	1 921	1 92
Other claims on the public sector		1021	1 021	-	1 02
Claims on corporations	2 266	1 908	1 908	1 908	1 908
Financing of domestic deliveries (KTR)	70	42	42	42	42
Other claims on corporations	2 197	1 866	1 866	1 866	1 866
Other assets	598	1 190	1 165	905	1 000
Accrued items	490	1 071	1 047	800	895
Other assets	108	119	119	105	105
Valuation account	100	-	-	105	105
Total	58 518	80 972	82 809	86 322	86 874
Total	30 3 10	00 972	02 009	00 322	00 074
LIABILITIES					
Foreign liabilities	5 680	5 645	5 657	5 741	5 776
Allocations of special drawing rights	951	1 033	1 041	1 042	1 055
IMF markka accounts	3 794	4 184	4 184	4 183	4 183
Other foreign liabilities	934	429	433	515	537
Notes and coin in circulation	16 891	16 313	16 327	16 287	16 359
Notes	15 076	14 502	14 512	14 468	14 536
Coin	1 815	1 811	1 815	1 819	1 823
Certificates of deposit	15 530	32 760	32 760	36 480	40 170
Liabilities to financial institutions	8 329	8 998	10 479	9 729	6 151
Reserve deposits	6 829	6 498	7 979	7 229	3 651
Term deposits	0 029	0 490	1919	1 225	3 63 1
Other liabilities to financial insitutions	1 500	2 500	2 500	2 500	2 500
Liabilities to the public sector	1 500	2 500	2 500	2 500	2 500
프로스 바이 이렇지 않는 것이 없는데 뭐 하면 하면 하면 하면 하면 하면 하나 하다.	-	\ 	=	-	7
Current accounts Other liabilities to the public sector	_	-	_	-	-
Other liabilities to the public sector	- -	100	-	450	45.
Liabilities to corporations	574	169	165	156	154
Deposits for investment and ship purchase	574	169	165	156	154
Other liabilities to corporations	-	-	-	-	-
Other liabilities	220	98	87	89	81
Accrued items	193	56	56	56	52
Other liabilities	27	42	31	32	29
Valuation account	260	5 955	6 300	6 807	7 150
Provisions	5 270	5 270	5 270	5 270	5 270
Pension provision	1 516	1 516	1 516	1 516	1 516
Other provisions	3 754	3 754	3 754	3 754	3 754
Capital accounts	5 764	5 764	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
Net earnings	-	-	-	-	-
rect currings					
Total	58 518	80 972	82 809	86 322	86 874

1.2 Time series for the balance sheet items of the Bank of Finland, mill. FIM

End of				Foreign	sector				Pi	ublic secto	or
period	Gold	Special drawing rights	IMF reserve tranche	ECU-claim on the European Monetary Institute	Foreign exchange assets	Reserve assets (1+2+3 +4+5)	Other claims, net	Net claims (6+7)	Claims	Liabil- ities	Net claims (9-10)
	1	2	3	4	5	6	7	8	9	10	11
1992	2 180	564	1 732	9	25 041	29 517	-2 998	26 519	2 446	90	2 356
1993	2 180	664	1 747	12	28 882	33 473	-1324	32 148	1 788	784	1 004
1994	2 180	1 537	1 354		47 672	52 743	-1 114	51 629	1 806	93	1 713
1995	1 742	1 569	1 685	3 363	40 506	48 865	-2082	46 783	1 882	75	1 807
1996	1 742	1 344	1 953	2 541	28 817	36 397	-1 826	34 571	1 906	-	1 906
1996											
July	1 742	1 187	1 880	2 642	26 402	33 854	-2 066	31 788	6 460	-	6 460
Aug.	1 742	1 186	1 909	2613	27 139	34 590	-2 588	32 002	6 297	-	6 297
Sept.	1 742	1 412	1 928	2614	27 619	35 315	-1774	33 541	5 998	_	5 998
Oct.	1 742	1 017	1 915	2 5 1 9	29 510	36 703	-1863	34 840	5 982	-	5 982
Nov.	1 742	1 044	1 945	2 541	29 713	36 985	-2088	34 897	5 987	_	5 987
Dec.	1 742	1 344	1 953	2 541	28 817	36 397	-1 826	34 571	1 906	2	1 906
1997											
Jan.	1 742	1 370	1 937	2 528	54 432	62 009	-1292	60 717	1 907	_	1 907
Feb.	1 742	1 544	1 983	2 544	54 189	62 002	-1370	60 632	1 907	-	1 907
March	1 742	1 514	1 930	2 532	51 982	59 700	-1268	58 432	1 907	-	1 907
April	1 742	1 186	1 986	4 011	49 851	58 775	-1227	57 548	1 904	-	1 904
May	1 742	1 121	1 998	4 000	49 607	58 468	-1267	57 201	1 908		1 908
June	1 742	1 100	1 963	3 984	50 322	59 111	-1397	57 714	1 921	-	1 921
July	1 742	1 557	2 023	3 965	55 189	64 475	-1533	62 942	1 921	_	1 921

End of		Domestic fina	ancial sector			Corporate se	ctor		
period –	Term claims on deposit banks, net	Reserve deposits of deposit banks'	Other claims on financial institu- tions, net	Net claims (12+13+ 14)	Claims in the form of special financing	Special deposits and other items, net	Net claims (16+17)	Notes and coin in circu- lation	Out- standing CDs issued by the Bank of Finland
	12	13	14	15	16	17	18	19	20
1992	3 738	-13 165	4 022	-5 405	747	-2 651	-1 904	14 508	4 880
1993	7 337	-6 398	-463	476	496	720	1 216	14 994	14 837
1994	1 480	-6 526	-347	-5 392	316	1 285	1 601	14 315	35 236
1995	7 076	-15 676	655	-7945	185	1 706	1 891	15 611	27 090
1996	11 626	-6 829	372	5 169	70	1 623	1 692	16 891	15 530
1996									
July	6 540	-7203	487	-176	117	1 581	1 698	15 251	16 445
Aug.	9 988	-5 400	472	5 060	108	1 592	1 700	15 201	21 920
Sept.	10 147	-3676	443	6 9 1 4	102	1 630	1 732	15 331	24 650
Oct.	10 683	-5 131	394	5 946	92	1 662	1 754	15 296	24 920
Nov.	7 041	-4 145	1 100	3 996	74	1 591	1 665	15 449	22 160
Dec.	11 626	-6 829	372	5 169	70	1 623	1 692	16 891	15 530
1997									
Jan.	14 277	-5082	336	9 531	68	1 797	1 865	15 659	47 370
Feb.	12 104	-1404	324	11 024	63	1 856	1 918	15 590	47 520
March	18 158	-10649	319	7 828	59	1 919	1 978	16 131	41 950
April	17 070	-6 717	294	10 647	50	1 784	1 834	16 064	41 700
May	12 568	-8 091	283	4 760	42	1 669	1 712	16 068	34 760
June	9 558	-10397	258	-581	42	1 695	1 738	16 315	29 110
July	10 575	-3 651	252	7 176	42	1 712	1 754	16 359	40 170

2. The Bank of Finland's operations in the money and foreign exchange markets and the banks' forward exchange position

2.1 The Bank of Finland's minimum reserve system and standing facilities

		R	eserve requiremen	t	Required	Excess	Total reserves,	Liquidity
		On deposits payable on demand, %	On other deposits, %	On other items, %	reserves 1, mill. FIM	reserves, mill. FIM	mill. FIM (4+5)	credits, mill. FIM
		1	2	3	4	5	6	7
1993		2.0	1.5	1.0	6 398			440
1994		2.0	1.5	1.0	6 526	107	40	14
1995	I–IX	2.0	1.5	1.0	6 557	6.5	50	123
	X-XII	2.0	1.5	1.0	6 530	616	7 146	37
1996	7.1 7.111	2.0	1.5	1.0	6 652	440	7 092	121
1996								
July		2.0	1.5	1.0	6 728	139	6 868	
Aug.		2.0	1.5	1.0	6 672	308	6 981	544
Sept.		2.0	1.5	1.0	6 636	1 634	8 270	344
Oct.		2.0	1.5	1.0	6 703	631	7 334	7,000
Nov.		2.0	1.5	1.0	6 596	136	6 732	233
Dec.		2.0	1.5					
Dec.		2.0	1.5	1.0	6 578	992	7 570	186
1997								
Jan.		2.0	1.5	1.0	6 560	423	6 983	-
Feb.		2.0	1.5	1.0	6 590	992	7 582	
March		2.0	1.5	1.0	6 582	1 478	8 060	-
April		2.0	1.5	1.0	6 589	566	7 156	18
May		2.0	1.5	1.0	6 623	598	7 221	
June		2.0	1.5	1.0	6 612	1 165	7 777	-
July		2.0	1.5	1.0	6 786	378	7 164	_

¹ As of 2 October 1995, the minimum reserve requirement is fulfilled on an averaging basis; until 2 October 1995, end of month figures.

2.2 The Bank of Finland's money market transactions, mill. FIM

During period	Purchases of money market instruments	Sales of money market instruments	Matured money market instruments, net	Money market transactions, net (1-2-3)
	1	2	3	4
1992 1993 1994 1995 1996	76 230 86 521 35 540 50 435 94 080	137 940 146 899 351 820 434 810 250 980	-60 417 -50 486 -295 165 -393 930 -190 562	-1 293 -9 892 -21 115 9 555 33 662
1996 July Aug. Sept. Oct. Nov. Dec.	6 700 14 800 11 900 10 600 7 900 12 650	16 450 21 920 24 650 24 920 19 340 15 530	-13 510 -9 892 -15 530 -12 030 -23 630 -6 430	3 760 2 772 2 780 -2 290 12 190 3 550
1997 Jan. Feb. March April May June July	17 100 15 500 1 450 24 200 5 700 9 600 10 420	47 370 47 520 41 950 41 700 34 760 32 760 36 520	-2 780 -28 660 -47 030 -13 630 -34 700 -22 160 -22 950	-27 490 -3 360 6 530 -3 870 5 640 -1 000 -3 150

2.3 The Bank of Finland's transactions in convertible currencies, mill. FIM

During	Intervention in	the foreign exch	nange market	Spot transactions	Central
period	Spot purchases	Spot sales	Forward exchange intervention = change in forward exchange position	related to forward contracts, net	government's foreign exchange transactions, net
	1	2	3	4	5
1992 1993 1994 1995 1996	20 050 25 120 20 930 4 910 7 360	-70 640 -45 080 -12 900 -5 470 -7 320	-1 650 7 460 9 060 -6 170	390 -6 910 -8 930 9 170	45 060 33 240 24 660 -10 135 -13 868
1996 June July Aug. Sept. Oct. Nov. Dec.	240 60 1 350 2 310 2 200	 - - -480			-720 -50 -658 -2 210 -690 30 -950
1997 Jan. Feb. March April May June	38 340 1 460 - 2 880	-720 -690 -60	12 620 430 -2 610 -4 240 -100 70	-12 260 2 540 3 070	-250 -1 660 -3 490 -8 160 -930 -870

2.4 Forward exchange contracts between Finnish markka and other currencies, mill. FIM

Stock			Finnis	h banks' forwa	ard contracts				idents' forwa		The Bank of Finland's
at end of period		Finnish custon Finnish banks			foreign custon	ners	Total	contracts with Finnish customers (excl. Finnish banks)			forward contracts
	Currency purchases from Finnish customers	Currency sales to Finnish customers	Net (1-2)	Currency purchases from foreign customers	Currency sales to foreign customers	Net (4–5)	Net (3+6)	Currency purchases from Finnish customers	Currency sales to Finnish customers	Net (8-9)	Net currency sales
	1	2	3	4	5	6	7	8	9	10	11
1992 1993 1994 1995 1996	39 195 38 373 51 096 60 280 53 520	32 939 23 721 22 093 19 095 21 793	6 256 14 652 29 003 41 185 31 726	21 142 14 346 19 236 31 837 44 068	32 339 21 895 32 791 48 906 72 021	-11 197 -7 548 -13 555 -17 069 -27 953	-4 941 7 104 15 448 24 116 3 773	1 614 11 632 18 372 12 829 15 871	1 929 2 173 4 780 6 871 6 908	-315 9 459 13 592 5 957 8 963	1 939 -6 080
1996 June July Aug. Sept. Oct. Nov. Dec.	60 709 57 388 56 042 54 160 54 587 53 072 53 520	27 714 27 873 26 638 23 422 24 466 22 459 21 793	32 995 29 514 29 404 30 738 30 120 30 614 31 726	43 406 42 949 43 992 46 476 50 823 51 554 44 068	61 302 62 681 68 884 69 507 73 163 76 001 72 021	-17 896 -19 733 -24 891 -23 031 -22 341 -24 446 -27 953	15 099 9 781 4 513 7 707 7 779 6 168 3 773	16 731 16 977 17 407 18 761 18 988 18 476 15 871	8 494 8 127 7 513 7 536 6 902 7 649 6 908	8 237 8 849 9 894 11 225 12 085 10 827 8 963	=
1997 Jan. Feb. March April May June	61 066 60 646 62 218 65 819 65 324 65 886	21 103 20 139 23 415 25 160 25 735 30 056	39 964 40 507 38 803 40 659 39 588 35 830	61 130 58 008 57 783 59 142 53 735 58 688	72 501 66 207 85 313 84 411 82 076 83 157	-11 371 -8 199 -27 530 -25 268 -28 340 -24 468	28 593 32 308 11 273 15 391 11 248 11 362	18 219 18 779 18 160 20 854 22 115 24 007	5 597 5 040 5 138 10 927 9 477 12 681		-5 589 -5 589

Rates of interest

Money market rates and rates applied by the Bank of Finland, per cent

Average of daily	Interbank		HELIB	OR			Bank of Finland ra	ites
observations	overnight rate	1 month	3 months	6 months	12 months	Liquidity credit rate ¹	Excess-reserve rate ²	Base rate
	1	2	3	4	5	6	7	8
1992 1993 1994 1995 1996	13.32 7.71 4.38 5.26 3.66	13.49 7.85 5.11 5.63 3.58	13.27 7.73 5.35 5.76 3.63	13.08 7.59 5.78 5.97 3.74	12.96 7.47 6.33 6.34 3.99	14.90 8.95 7.11 7.63 5.57	7.41 4.95 3.11 3.63 1.57	9.17 6.85 5.27 5.20 4.38
1996 July Aug. Sept. Oct. Nov. Dec.	3.48 3.94 3.16 3.11 3.29 3.11	3.54 3.45 3.19 3.04 3.02 3.02	3.63 3.54 3.28 3.10 3.08 3.08	3.78 3.70 3.43 3.20 3.21 3.20	4.07 4.00 3.67 3.40 3.46 3.40	5.52 5.43 5.19 5.03 5.00 5.00	1.52 1.43 1.19 1.03 1.00 1.00	4.50 4.50 4.25 4.00 4.00 4.00
1997 Jan. Feb. March April May June July	2.68 2.85 2.51 3.24 2.51 2.76 2.85	3.02 3.01 3.01 3.02 3.01 3.00 3.00	3.07 3.07 3.07 3.08 3.08 3.07 3.08	3.16 3.17 3.18 3.21 3.19 3.19 3.22	3.34 3.34 3.42 3.48 3.40 3.42 3.50	5.00 5.00 5.00 5.00 5.00 5.00 5.00	1.00 1.00 1.00 1.00 1.00 1.00	4.00 4.00 4.00 4.00 4.00 4.00 4.00

3.2 The Bank of Finland's liquidity facility

3.3 Weighted Eurorates and

							cor	nmercial	ECU interes	st <i>rate</i> , per c
	The Bank of Finland's tender		Liquidity credit: interest	Liquidity credit: maturity,	deposits: interest rate	Excess- reserve rate	Average of daily obser-	ECU	3 currencies	Commercial ECU
	rate, %		rate margin, %-points	days	margin, %-points		vations		3 months	
	1		2	3	4	5		1	2	3
1992 ¹ 1993 1994 1995 1996	13.85 7.87 5.11 5.63 3.57	1992 1993 1994 1995 1996	+1.00 +2.00 +2.00 +2.00 +2.00	7 7 7 7 7	-3.00 -2.00 -2.00	2.25	1992 1993 1994 1995 1996	10.4 8.0 5.9 5.9 4.4	7.8 5.9 5.2 5.2 4.3	10.6 8.1 6.1 6.0 4.4
1996 July Aug. Sept. Oct. Nov. Dec.	3.52 3.43 3.19 3.03 3.00 3.00	1996 July Aug. Sept. Oct. Nov. Dec.	+2.00 +2.00 +2.00 +2.00 +2.00 +2.00	7 7 7 7 7		1.50 1.25 1.10 1.00 1.00 1.00	1996 July Aug. Sept. Oct. Nov. Dec.	4.3 4.3 4.2 4.1 4.1 4.1	4.3 4.2 4.1 4.1 4.2 4.3	4.5 4.4 4.3 4.2 4.2 4.2
1997 Jan. Feb. March April May June July	3.00 3.00 3.00 3.00 3.00 3.00 3.00	1997 Jan. Feb. March April May June July	+2.00 +2.00 +2.00 +2.00 +2.00 +2.00 +2.00	7 7 7 7 7 7		1.00 1.00 1.00 1.00 1.00 1.00	1997 Jan. Feb. March April May June July	4.2 4.1 4.1 4.1 4.2 4.1 4.2	4.3 4.4 4.3 4.3 4.3 4.3	4.3 4.2 4.2 4.2 4.2 4.2 4.2
13.3.1996 14.6.1996 5.7.1996 23.8.1996 18.9.1996 9.10.1996	3.75 3.60 3.50 3.25 3.10 3.00	13.3.1996 14.6.1996 5.7.1996 23.8.1996 18.9.1996 9.10.1996				1.75 1.60 1.50 1.25 1.10 1.00				

¹ July-December.

Call money credit rate until 2 July 1992.
 Call money deposit rate until 2 October 1995.

3.4 Rates of interest applied by banks, per cent

Average for			Lending					Markka dep	osits and ot	her markka	funding	
period		New cr	edits		Average	Of which:	24- month	36- month	Other tax-	Average rate of	Average rate of	Average rate of
	Cheque account and postal giro credits	Bills of ex- change	Loans	New lending, total	rate	Com- mercial banks	tax- exempt deposits ¹	tax- exempt deposits ¹	exempt deposits, max. rate of interest ¹	interest on deposits	interest on other	interest on markka funding
	1	2	3	4	5	6	7	8	9	10	11	12
1992 1993 1994 1995 1996	14.04 9.69 7.32 7.85 5.61	15.86 13.55 11.55 11.33 9.61	13.32 9.40 7.13 7.30 5.31	13.75 9.75 7.35 7.46 5.43	12.46 10.20 8.18 8.04 6.49	12.13 9.92 7.91 7.75 6.15	7.50 3.50 3.25 2.75 2.00	8.50 4.50 4.25 3.75 3.00	4.50 2.00 2.00 2.00 2.00	7.41 4.78 2.99 3.13 2.15	12.84 8.86 5.96 6.29 4.31	9.14 6.15 4.01 4.08 2.78
1996 June July Aug. Sept. Oct. Nov. Dec.	5.31 6.26 6.19 6.24 5.63 5.12 5.21	10.66 9.78 9.74 9.95 9.73 9.58 9.04	5.35 5.48 5.51 4.92 4.90 4.87 4.38	5.44 5.63 5.66 5.06 5.04 4.98 4.48	6.55 6.48 6.42 6.23 5.99 5.94 5.83	6.20 6.12 6.04 5.87 5.67 5.62 5.48	2.50 2.50 2.50 2.00 2.00 2.00 2.00	3.50 3.50 3.50 3.00 3.00 3.00 3.00	2.00 2.00 2.00 2.00 2.00 2.00 2.00	2.23 2.21 2.07 1.93 1.84 1.80 1.73	4.10 4.29 4.09 3.92 3.72 3.77 3.92	2.81 2.71 2.52 2.39 2.38
1997 Jan. Feb. March April May June	4.03 5.59 5.51 6.03 5.25 5.46	9.99 10.01 9.97 9.68 9.83 9.31	4.63 4.67 4.78 4.53 4.85 4.84	4.65 4.79 4.91 4.64 4.96 4.93	5.75 5.70 5.67 5.65 5.62 5.59	5.39 5.35 5.32 5.29 5.27 5.24	2.00 2.00 2.00 2.00 2.00 2.00	# # # # # # # # # # # # # # # # # # #	2.00 2.00 2.00 2.00 2.00 2.00	1.69 1.61 1.48 1.47 1.45 1.43		

¹ End of period.

3.5 Yields on bonds and shares, per cent

Period		Во	nds		Shares
	Reference rate by the Bank o		Taxable governi	ment bonds	Share yield
	3 years	5 years	5 years	10 years	
	1	2	3	4	5
1992 1993 1994 1995 1996	13.1 8.5 8.5 8.2 5.8	13.0 8.9 9.3 8.9 6.8	12.0 8.2 8.4 7.9 6.0	11.5 ¹ 8.8 9.1 8.8 7.1	2.5 1.2 1.0 2.4 2.1
1996 June July Aug. Sept. Oct. Nov. Dec.	6.0 5.9 5.8 5.4 5.0 5.0 5.0	7.2 6.9 6.5 5.9 5.9	6.3 6.2 6.1 5.6 5.1 5.1 5.0	7.2 7.1 7.2 6.9 6.5 6.5 6.3	1.9 1.8 2.4 2.4 2.3 2.2
1997 Jan. Feb. March April May June	4.8 4.7 4.8 5.0 4.9 4.9	5.7 5.5 5.6 5.8 5.7 5.7	4.8 4.6 4.8 5.0 4.8 4.8	6.1 5.9 6.1 6.4 6.2 6.1	2.2 1.8 2.1 2.3 2.2 2.1

¹ November and December only.

Rates of exchange

Montreal

1 CAD

London

1 GBP

Dublin

1 IEP

Stock-

holm

1 SEK

Oslo

1 NOK

Copen-

hagen

1 DKK

Reykja-

vik

1 ISK

Frankfurt

am Main

1 DEM

3.975

3.902

3.939 0.00596

5.880

5.855

5.846

7.12016

7.19320

7.30859

Amster-

dam

1 NLG

Brussels

1 BEF

Zurich

1 CHF

4.1 Middle rates, FIM New York

1 USD

Average of daily quo-

tations

	1	2	3	4	5	6	7	8	9	10	11	12
1992 1993 1994 1995 1996	4.483 5.718 5.218 4.365 4.590	9 4.434 4 3.824 8 3.181	7.875 8.582 7.982 6.891 7.164	7.636 8.371 7.799 6.999 7.345	0.7714 0.7350 0.6758 0.6123 0.6847	0.7222 0.8059 0.7393 0.6889 0.7111	0.7444 0.8822 0.8207 0.7790 0.7921	0.0778 0.0846 0.0745 0.0674 0.0689	2.8769 3.4584 3.2169 3.0471 3.0530	2.5552 3.0787 2.8684 2.7202 2.7247	0.139 0.165 0.156 0.148 0.148	5 3.8706 1 3.8179
1996 July Aug. Sept. Oct. Nov. Dec.	4.588 4.477 4.538 4.571 4.550 4.639	7 3.263 3 3.313 4 3.383 0 3.400	7.128 6.941 7.075 7.245 7.571 7.726	7.354 7.215 7.309 7.352 7.576 7.709	0.6909 0.6765 0.6834 0.6925 0.6869 0.6799	0.7113 0.6986 0.7029 0.7049 0.7162 0.7173	0.7910 0.7816 0.7826 0.7803 0.7839 0.7809	0.0687 0.0676 0.0680 0.0681 0.0687 0.0692	3.0495 3.0210 3.0145 2.9918 3.0106 2.9883	2.7171 2.6932 2.6889 2.6669 2.6843 2.6635	0.146 0.146 0.145 0.146	4 3.6860 2 3.6337
1997 Jan. Feb. March April May June July	4.776 4.975 5.071 5.130 5.133 5.173 5.305	7 3.672 6 3.702 7 3.681 7 3.722 2 3.737	7.924 8.089 8.141 8.360 8.382 8.503 8.869	7.791 7.898 7.932 7.965 7.780 7.797 7.942	0.6764 0.6720 0.6622 0.6678 0.6694 0.6680 0.6793	0.7408 0.7508 0.7448 0.7360 0.7271 0.7177 0.7134	0.7803 0.7794 0.7834 0.7876 0.7922 0.7869 0.7783	0.0700 0.0707 0.0713 0.0721 0.0729 0.0735 0.0747	2.9754 2.9729 2.9886 3.0003 3.0169 2.9966 2.9641	2.6498 2.6468 2.6558 2.6680 2.6825 2.6637 2.6325	0.144 0.145 0.146 0.145	3 3.4297 1 3.4264 8 3.4601 4 3.5109 2 3.5903 2 3.5881 6 3.5832
Average of daily quo-	Paris	Rome	Vienna	Lisbon	Madrid	Athens	Tallinn	Tokyo	Mel- bourne	Seoul	ECU Commer cial	
tations	1 FRF	1 ITL	1 ATS	1 PTE	1 ESP	1 GRD	1 EEK	1 JPY 20	1 AUD	1 KRW	1 XEU	1 XDR
1992 1993 1994 1995 1996	0.8486 1.0096 0.9406 0.8748 0.8978	0.00364 0.00364 0.00324 0.00268 0.00298	0.4088 0.4916 0.4573 0.4331 0.4340	0.0332 0.0356 0.0314 0.0291 0.0298	0.0438 0.0451 0.0390 0.0350 0.0363	0.024 0.025 0.0215 0.0189 0.0191	0.4060 0.4323 0.4021 0.3809 0.3816	0.03546 0.05168 0.05106 0.04663 0.04225	3.289 3.885 3.814 3.238 3.593		5.798 6.685 6.175 5.644 5.751	6.31546 7.98671 7.46629 6.61879 6.66357
1996 July Aug. Sept. Oct. Nov. Dec.	0.9006 0.8848 0.8854 0.8846 0.8898 0.8845	0.00301 0.00295 0.00299 0.00300 0.00301 0.00304	0.4334 0.4293 0.4284 0.4253 0.4279 0.4247	0.0297 0.0294 0.0295 0.0296 0.0298 0.0296	0.0361 0.0356 0.0358 0.0355 0.0358 0.0355	0.0193 0.0189 0.0190 0.0191 0.0191 0.0189	0.3812 0.3776 0.3768 0.3740 0.3763 0.3735	0.04200 0.04153 0.04132 0.04071 0.04052 0.04075	3.622 3.506 3.598 3.620 3.625 3.702	 	5.762 5.683 5.714 5.731 5.782 5.767	6.65070 6.52988 6.57191 6.58126 6.60942 6.67218
1997 Jan. Feb. March April May	0.8817 0.8806 0.8859 0.8908 0.8945	0.00305 0.00301 0.00299 0.00303 0.00305	0.4229 0.4225 0.4246 0.4263 0.4286	0.0298 0.0296 0.0297 0.0299 0.0299	0.0355 0.0351 0.0352 0.0356 0.0357	0.0190 0.0190 0.0190 0.0190 0.0189	0.3719 0.3716 0.3736 0.3750 0.3771	0.04051 0.04048 0.04138 0.04086 0.04335	3.712 3.818 3.998 3.997 3.975	27 27 10	5.777 5.771 5.801 5.853 5.880	6.75569 6.88718 6.98562 7.03636 7.12016

May

June

July

0.00305

0.00304

0.8878

0.8785

0.0297

0.0293

0.0355

0.0351

0.0189

0.3745

0.0189 0.3705 0.04609

0.04527

0.4258

0.4213

4.2 Markka value of the ECU and currency indices

Average of daily	Markka value of the ECU	Currency indic	es, 1982=100
observa- tions	FIM/ECU	Trade-weighted currency index	Payments currency index
	1	2	3
1992 1993 1994 1995 1996	5.80140 6.69420 6.19108 5.70936 5.83028	116.4 132.4 123.2 111.6 115.3	115.7 136.0 125.5 111.6 115.8
1996 July Aug. Sept. Oct. Nov. Dec.	5.82763 5.74674 5.76093 5.75237 5.81220 5.79898	115.3 113.5 114.0 114.3 115.1 115.2	115.8 113.6 114.5 114.9 115.2 115.9
1997 Jan. Feb. March April May June July	5.80159 5.80357 5.82954 5.87626 5.90366 5.88180 5.86447	115.8 116.4 116.8 117.8 118.6 118.7 119.0	117.4 119.4 120.5 121.6 122.1 122.4 123.8

4.3 Deviations of ERM currencies' markka rates from central rates, per cent

Average of daily observations	ECU s	DEM	FRF	NLG	DKK	BEF	ESP	ATS	PTE	IEP	ITL
Central rate as of 25 Nov. 1996	5.85424	3.04000	0.906422	2.69806	0.796976	0.147391	0.0357345	0.432094	0.029657	7.32960	0.00307071
	1	2	3	4	5	6	7	8	9	10	11
1995 1996	-1.69 0.30	0.23 0.43	-3.48 -0.95	0.82 0.99	-2.25 -0.61	0.49 0.65	-2.02 1.49	0.24 0.44	-1.84 0.40	-4.52 0.21	
1996 July Aug. Sept. Oct. Nov. Dec.	0.36 -1.03 -0.79 -0.93 -0.10 -0.94	0.31 -0.63 -0.84 -1.58 -0.97 -1.70	-0.64 -2.38 -2.32 -2.40 -1.84 -2.42	0.71 -0.18 -0.34 -1.16 -0.51 -1.28	-0.76 -1.93 -1.80 -2.09 -1.64 -2.02	0.42 -0.53 -0.66 -1.46 -0.87 -1.63	1.05 -0.34 0.10 -0.56 0.10 -0.70	0.31 -0.64 -0.85 -1.58 -0.98 -1.71	0.01 -0.79 -0.48 -0.18 0.43 -0.14	0.34 -1.56 -0.28 0.31 3.36 5.17	-3.83 -2.75 -2.35 -2.10
1997 Jan. Feb. March April May June July	-0.90 -0.87 -0.42 0.38 0.84 0.47 0.17	-2.13 -2.21 -1.69 -1.31 -0.76 -1.43 -2.50	-2.73 -2.85 -2.27 -1.73 -1.31 -2.06 -3.08	-1.79 -1.90 -1.57 -1.12 -0.58 -1.27 -2.43	-2.10 -2.20 -1.70 -1.18 -0.60 -1.26 -2.35	-2.07 -2.26 -1.73 -1.34 -0.84 -1.49 -2.58	-0.78 -1.79 -1.45 -0.52 0.02 -0.74 -1.65	-2.12 -2.23 -1.73 -1.34 -0.80 -1.45 -2.50	0.39 -0.21 0.29 0.88 0.97 0.01 -1.04	6.29 7.76 8.22 8.67 6.14 6.37 8.36	-2.04 -2.53 -1.31 -0.53 -0.61

5. Other domestic financing 5.1 Bank funding from the public, mill. FIM

End of period	Cheque and giro deposits	Trans- action deposits	Time deposits	Other deposits	Markka deposits, total (1+2+3+4)	Foreign currency deposits	Total deposits (5+6)	Other funding	Total funding (7+8)
	1	2	3	4	5	6	7	8	9
1992 1993 1994 1995 1996	34 832 36 379 41 200 52 496 58 016	88 526 92 357 99 691 110 455 131 632	114 771 112 413 108 922 103 573 49 827	21 218 21 766 19 838 22 166 45 963	259 347 262 915 269 650 288 689 285 438	14 626 14 883 12 774 13 679 12 358	273 973 277 798 282 424 302 369 297 796	65 557 63 173 44 228 37 851 40 315	339 530 340 971 326 651 340 220 338 111
1995 Dec.	52 496	110 455	103 573	22 166	288 689	13 679	302 369	37 851	340 220
1996 Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.	49 611 50 458 47 744 48 998 49 759 50 372 49 770 49 632 51 578 53 460 52 682 58 016	112 796 114 837 117 393 118 926 120 368 123 941 123 827 124 983 124 477 127 084 128 841 131 632	95 511 92 259 88 832 85 803 82 956 77 448 74 304 71 631 67 805 63 616 59 728 49 827	25 399 24 321 24 956 25 557 26 065 29 039 31 319 32 613 33 601 34 720 35 853 45 963	283 316 281 875 278 925 279 285 279 148 280 800 279 221 278 859 277 462 278 880 277 104 285 438	13 011 14 184 13 951 14 896 15 399 13 816 13 735 12 857 13 706 12 938 12 050 12 358	296 327 296 059 292 876 294 182 294 547 294 617 292 955 291 717 291 168 291 818 289 154 297 796	50 008 38 431 41 906 43 472 46 802 43 867 42 524 47 258 53 697 48 272 47 988 40 315	346 335 334 490 334 782 337 653 341 349 338 483 335 479 338 975 344 865 340 090 337 142 338 111

5.2 Bank lending to the public, mill. FIM

End of period	Cheque account and postal giro credits	Bills of exchange	Loans	Markka lending, total (1+2+3)	Foreign currency credits	Total lending (4+5)
	1	2	3	4	5	6
1992 1993 1994 1995 1996	16 045 14 217 13 241 12 348 11 712	3 335 2 223 1 301 901 628	252 163 248 406 242 417 235 074 238 839	271 544 264 846 256 958 248 323 251 179	95 168 66 931 45 138 32 252 23 302	366 712 331 777 302 096 280 575 274 481
1995 Dec.	12 348	901	235 074	248 323	32 252	280 575
1996 Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.	12 150 12 182 12 262 12 142 12 117 11 936 11 722 11 872 11 803 11 522 11 725 11 712	792 853 835 834 763 747 698 685 659 640 616 628	234 104 235 211 235 623 235 029 235 306 237 366 236 967 237 913 237 999 238 811 239 174 238 839	247 046 248 246 248 719 248 005 248 187 250 049 249 387 250 471 250 462 250 974 251 515 251 179	32 406 31 240 30 734 31 704 29 035 29 206 27 516 26 540 26 131 25 311 24 736 23 302	279 452 279 486 279 453 279 709 277 221 279 255 276 903 277 011 276 593 276 251 274 481

5.3 Money supply, mill. FIM

End of period	Foreign	19	Domestic credit		Other	Mon	etary aggregates	S
net assets,	assets, net	Claims on the central government	Claims on the public	Total (2+3)	items, net	M ₁	M ₂ (1+4+5)	М3
	1	2	3	4	5	6	7	8
1992 1993 1994 1995 1996 *	-68 099 -25 989 12 844 25 481 40 638	81 1 848 6 092 19 837 12 821	439 937 403 742 365 712 353 340 350 230	440 018 405 589 371 804 373 177 363 052	-97 909 -100 006 -97 953 -94 870 -106 399	134 829 141 759 154 357 175 921 204 834	274 011 279 595 286 696 303 788 297 291	310 733 322 408 328 509 329 820 325 473
1996 * June July Aug. Sept. Oct. Nov. Dec.	28 625 36 492 34 402 33 218 31 312 36 768 40 638	23 209 24 318 25 936 15 243 17 873 16 834 12 821	351 923 349 162 349 733 349 521 349 742 350 532 350 230	375 131 373 481 375 669 364 764 367 615 367 366 363 052	-108 995 -118 138 -117 975 -106 967 -105 768 -111 862 -106 399	189 332 188 023 189 292 190 781 195 621 196 631 204 834	294 761 291 834 292 096 291 016 293 160 292 273 297 291	328 990 327 935 325 470 329 848 332 372 326 535 325 473
1997* Jan. Feb. March April May June	53 240 56 614 56 842 58 658 63 106	14 975 9 887 10 209 14 411 16 769	335 976 338 163 337 213 337 724 338 988	350 951 348 050 347 421 352 134 355 757	-105 893 -111 763 -105 201 -115 138 -118 574	206 956 200 605 206 040 202 323 206 912 209 080	298 298 292 901 299 062 295 654 300 289 301 894	339 801 328 095 338 407 340 840 349 620 350 332

5.4 Liabilities and assets of the central government, mill. FIM

End of period	Foreign curre	ncy-denomi	nated debt		Markka-der	nominated de	ebt		Total central	Out- standing	Cash
ponod	Bonds	Other debt	Total (1+2)	Public bonds	Other long-term liabilities	Treasury notes and bills	Miscella- neous items	Total (4+5+6+7)	govern- ment debt (3+8)	lending	iunas
	1	2	3	4	5	6	7	8	9	10	11
1992 1993 1994 1995 1996	100 244 142 824 160 587 158 545 158 847	6 143 12 753 15 975 13 756 16 161	106 387 155 577 176 562 172 301 175 008	40 578 71 082 93 008 143 948 177 700	13 555 16 060 17 100 17 492 17 187	14 762 22 824 33 153 37 864 37 620	-5 945 -5 609 -5 354	68 895 109 966 137 316 193 695 227 425	175 282 265 543 313 878 365 996 402 433	61 671 66 439 67 658 66 855 64 316	43 012
1996 June July Aug. Sept. Oct. Nov. Dec.	159 874 158 676 156 801 156 467 157 132 159 449 158 847	15 192 15 699 15 491 15 694 15 908 16 292 16 161	175 066 174 375 172 292 172 161 173 040 175 741 175 008	166 921 171 787 177 586 167 234 172 555 174 696 177 700	17 359 17 220 17 220 17 219 17 219 17 198 17 187	46 102 44 668 45 698 46 627 40 147 36 909 37 620	-5 324 -5 367 -5 405 -5 408 -5 454 -5 459 -5 354	225 176 228 426 235 236 225 851 224 666 223 597 227 425	400 242 402 801 407 528 398 012 397 706 399 338 402 433	66 754 66 824 67 027 64 300 64 438 63 764 64 316	50 44° 55 516 44 278 38 903 42 220
1997 Jan. Feb. March April May June	159 222 162 085 158 001 155 575 155 880 159 454	20 920 21 502 21 195 21 828 23 054 24 635	180 142 183 587 179 196 177 403 178 934 184 089	180 261 183 752 187 972 192 178 194 126 186 952	17 187 17 187 17 149 16 865 16 865 16 581	40 506 43 932 43 821 43 658 44 045 42 797	-5 405 -5 417 -5 440 -5 107 -5 114 -5 115	232 821 239 652 243 739 247 781 250 109 241 433	412 963 423 239 422 935 425 184 429 043 425 522	67 176 67 496 67 635 69 018	51 13 44 83

5.5 Markka bond market

A) Issues, mill. FIM

During period	Corpo- rations	Financial institutions	Central government	Local government	Others	Total (1+2+3+4+5)
	1	2	3	4	5	6
1992	6 984	15 043	12 965	2 674	4	37 671
1993	11 691	10 481	36 512	2 235	63	60 981
1994	4 053	9 899	31 553	593	-	46 099
1995	643	4 487	66 557	26	-	71 713
1996*	3 213	9 074	62 139	20	-	74 447
1996*						
June	-	522	3 847	20		4 390
July	-	772	4 876	_	-	4 876
Aug.	_	306	9 671		_	9 977
Sept.	20	770	5 373	22	_	6 163
Oct.	600	600	6 976	-	_	8 176
Nov.	1 109	1 392	2 656	_	-	5 157
Dec.	63	1 412	3 538	=	-	5 013
1997*						
Jan.		377	4 608	_		4 985
Feb.	417	432	4 836	_	_	5 685
March	75	1 380	4 660	_	_	6 115
April	6	988	4 258	_	_	5 252
May	_	1 071	2 831	_	_	3 902
June	451	289	5 472	20		6 212

B) Stock, mill. FIM

End of period			By sector				By type of loar	1	Total
period	Corpo- rations	Financial institutions	Central	Local	Others	Public is	ssues	Private	(1+2+3+4+5)
	rations	institutions	government	government		Taxable	Taxfree	placings	(6+7+8)
	1	2	3	4	5	6	7	8	9
1992	26 624	82 153	44 005	5 238	3 358	89 382	13 918	58 078	161 378
1993	32 459	73 893	73 682	6 884	2 009	119 552	10 391	58 984	188 927
1994	30 179	66 467	94 865	6 981	953	141 935	7 581	49 929	199 445
1995	26 480	55 223	145 177	5 814	357	186 799	5 034	41 218	233 051
1996*	25 245	44 656	179 419	4 362	140	219 863	2 956	31 003	253 822
1996*									
June	25 534	50 254	168 139	4 647	149	209 581	3 622	35 520	248 723
July	25 016	49 375	173 505	4 646	148	213 605	3 617	35 468	252 690
Aug.	24 756	49 075	179 304	4 638	148	219 241	3 360	35 320	257 921
Sept.	24 649	48 067	168 951	4 652	148	208 317	3 113	35 037	246 467
Oct.	25 184	46 793	174 273	4 642	145	213 851	2 974	34 212	251 037
Nov.	25 641	47 288	176 414	4 641	142	217 494	2 962	33 670	254 126
Dec.	25 245	44 656	179 419	4 362	140	219 863	2 956	31 003	253 822
1997*									
	25 091	43 814	181 980	1 257	140	222 760	2614	20,000	255 202
Jan.	24 727			4 357	140	222 769	2614	29 999	255 382
Feb.		41 827	185 472	4 302	140	226 058	2 393	28 017	256 468
March	25 514	43 257	189 688	4 126	99	231 672	2 118	28 894	262 684
April	25 462	44 214	193 517	4 126	99	236 936	2 107	28 375	267 418
May	24 336	43 819	195 466	3 977	93	238 090	1 842	27 759	267 691
June	23 872	42 300	188 292	3 943	91	229 911	1 833	26 754	258 498

C) Turnov	er, mill.	FIM
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During period	Interbank transactions	Transactions between banks		lealers' transactio rk government bo	
		and customers	Purchases from other primary dealers	Purchases from others	Sales to others
	1	2	3	4	5
1992 1993 1994 1995 1996	18 383 47 803 184 599 147 037 207 230	58 757 246 104 359 697 436 052 496 383	10 744 42 945 173 096 133 357 201 528	12 156 95 647 150 908 190 069 222 584	13 354 117 489 176 647 215 879 242 310
1996 July Aug. Sept. Oct. Nov. Dec.	13 411 13 452 20 933 26 602 13 084 9 524	26 745 50 597 58 941 52 158 37 331 27 581	12 763 12 908 20 680 26 298 12 545 9 510	10 069 22 320 26 345 25 293 16 312 12 084	12 616 22 356 29 739 26 064 20 612 14 868
1997 Jan. Feb. March April May June July	26 179 12 722 25 187 18 713 14 413 16 305 17 893	47 138 32 173 44 696 37 831 37 556 43 520 51 233	25 954 12 586 24 965 18 425 14 193 15 845 17 873	23 993 13 762 20 852 17 110 16 206 20 927 23 428	23 081 18 477 24 048 21 183 21 661 23 502 27 905

5.6 Helsinki Stock Exchange

Average of daily					Share price	ces					Tur	nover¹, mil	FIM
of daily observations				HEX in	dex (28 Dec	1990=10	00)				101	nover , min	i. I: tivi
	All- share index	Banks and finance	Insurance	Trade	Construc- tion	Forest indus- tries	Metal and engi- neering	Telecom- munica- tions and electron- ics	Chem- icals	Con- glom- erates	Shares and subscrip- tion rights	Bonds and deben- tures	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13
1992	772	425	467		-	1 123	1 206	-		890	10 277	15 377	25 654
1993	1 240	608	644	-		1 695	1 749		0.000	1 751	46 337	59 977	106 314
1994	1 847	719	802			2 284	2 675	-	-	3 068	68 671	2 147	70 818
1995	1 918	500	638	100	-	2 062	2 255	-	-	4 251	83 019	1 075	84 094
1996	2 032	460	820	-	\sim	2 040	2 564	-	-	5 681	101 265	541	101 806
1996 July Aug. Sept. Oct. Nov. Dec.	2 002 2 082 2 131 2 217 2 317 2 446	400 407 401 520 573 588	779 805 862 967 977 1 006	1 1 1 1	-	2 174 2 240 2 188 2 087 2 017 2 131	2 588 2 732 2 778 2 764 2 744 2 850		-	5 815 6 175 6 125 6 367 6 442 6 692	5 885 6 995 7 204 10 410 10 676 10 379	17 44 49 53 39 60	5 902 7 039 7 253 10 463 10 715 10 438
1997 Jan. Feb. March April May June July	2 674 2 850 2 907 2 826 3 045 3 135 3 432	633 714 723 654 705 679 839	1 384 1 365 1 357 1 420 1 442	2 047r 2 180 2 215 2 200 2 272 2 362 2 361	1 021 1 041 1 017 1 015 1 031	2 241 2 349 2 521 2 487 2 713 2 732 2 919	2 984 3 232 3 336 3 276 3 481 3 574 3 768	1 107 1 151 1 140 1 100 1 241 1 334 1 565	834 894 891 877 922 926 929	6 605 6 862 7 228 7 148 7 887 7 927 7 849	16 271 15 554 10 786 12 401 12 254 14 405 15 708	95 43 26 43 24 28 28	16 366 15 597 10 811 12 444 12 278 14 433 15 736

During period.

6. Balance of payments, foreign liabilities and assets 6.1 Current account, mill. FIM

During period	Exports of goods, fob	Trans- port receipts	Travel receipts	Other services receipts	Services receipts, total (2+3+4)	Exports of goods and services (1+5)	Invest- ment income	Trans- fers and other income	Current account receipts (6+7+8)	Imports of goods, cif	Trans- port ex- pendi- ture	Travel ex- pendi- ture	Other services expendi- ture
	1	2	3	4	5	6	7	8	9	10	11	12	13
1992 1993 1994 1995* 1996*	105 809 132 550 152 022 172 820 182 302	8 643 10 430 11 385 11 900 12 404	6 089 7 079 7 314 7 536 7 338	7 730 9 379 11 808 14 986 15 315	22 462 26 888 30 508 34 422 35 057	128 272 159 438 182 530 207 242 217 359	6 423 6 137 9 617 12 929 15 629	5 920 6 506 4 919 8 596 7 698	140 614 172 080 197 067 228 767 240 686	93 187 101 559 118 684 125 450 138 339	4 360 5 646 5 862 6 029 5 529	10 962 9 237 8 697 10 450 10 559	17 008 16 800 19 150
1994 IV	41 832	2 728	1 700	3 360	7 788	49 620	3 025	1 260	53 905	35 716	1 563	2 291	4 721
1995* V	41 131 45 919 39 617 46 154	2 971 2 977 2 976 2 976	1 499 1 891 2 243 1 903	3 827 3 571 3 718 3 870	8 297 8 439 8 937 8 749	49 428 54 358 48 554 54 903	3 085 3 246 2 707 3 892	1 543 1 549 2 143 3 360	54 056 59 153 53 404 62 155	29 895 31 773 29 856 33 926	1 479 1 572 1 498 1 481	2 326 2 639 2 707 2 779	4 825 4 349
1996* 	42 610 48 105 41 904 49 683	2 997 3 128 3 252 3 027	1 677 1 873 2 065 1 724	3 473 3 729 4 158 3 955	8 146 8 730 9 474 8 706	50 756 56 835 51 378 58 389	4 263 4 617 3 183 3 566	1 446 2 076 1 339 2 837	56 466 63 528 55 900 64 792	33 495 34 752 31 989 38 102	1 382 1 367 1 402 1 377	2 615 2 678 2 571 2 696	4 088 3 994
1997*	45 726	3 317	1 518	3 509	8 344	54 069	3 393	1 990	59 452	35 288	1 659	2 369	4 524

During period	Services expendi- ture, total (11+12 +13)		Invest- ment ex- pendi- ture	Trans- fers and other ex- pendi- ture	Current account expendi- ture (15+16 +17)	Trade account (1-10)	Trans- port (2-11)	Travel (3–12)	Other services (4–13)	Services account (20+21 +22)	Goods and services account (19+23)	Invest- ment income, net (7-16)	Trans- fers and others, net (8-17)	Current account (24+25 +26)= (9-18)
	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1992 1993 1994 1995* 1996*	28 690 31 891 31 359 35 629 33 009	121 878 133 450 150 043 161 080 171 348	34 580 31 801 32 529	8 596	162 649 178 421 190 440 206 237 218 651	12 622 30 991 33 339 47 370 43 963	4 784 5 523 5 870	-2 159 -1 382 -2 914			25 988 32 487 46 162	-24 001 -28 443 -22 184 -19 600 -17 154	-3 885 -3 676 -4 032	-22 035 -6 340 6 627 22 531 22 035
1994 IV	8 575	44 291	7 399	1 984	53 673	6 117	1 166	-591	-1 361	-787	5 330	-4 375	-724	231
1995* V	8 844 9 036 8 554 9 196	38 739 40 809 38 410 43 122	9 295 10 067 6 630 6 538	3 191 3 205	50 858 54 067 48 244 53 067	11 235 14 145 9 761 12 228	1 492 1 406 1 478 1 494	-827 -748 -464 -875	-1 212 -1 254 -631 -1 066	-546 -597 383 -447	10 689 13 549 10 144 11 781	-6 209 -6 822 -3 923 -2 646	-1 282 -1 641 -1 061 -47	3 198 5 086 5 160 9 087
1996* 	8 296 8 133 7 966 8 613	41 792 42 885 39 956 46 715	8 530 10 925 6 621 6 707		54 332 57 672 49 632 57 015	9 115 13 353 9 915 11 581	1 614 1 761 1 850 1 650	-938 -805 -506 -972	-827 -358 164 -585	-151 598 1 508 93	8 964 13 950 11 423 11 674	-4 267 -6 308 -3 439 -3 141	-2 563 -1 786 -1 716 -756	2 134 5 857 6 267 7 777
1997*	8 552	43 840	8 317	4 183	56 340	10 438	1 657	-851	-1 015	-208	10 229	-4 923	-2 194	3 112

6.2 Capital and financial account, mill. FIM

During	Capital						Financia	account					
period	account, imports of	Direct		Portfo	olio investme	nt in Finla	nd		Ot	her investm	ent in Finlan	d	Total
	capital	invest- ment in Finland	Shares	Bonds	Of which: markka denominated bonds	Money market instru- ments	Finan- cial deriva- tives	Total (3+4+ 6+7)	Trade credits	Loans	Other capital	Total (9+10+ 11)	(2+8+12)
	1	2	3	4	5	6	7	8	9	10	11	12	13
1992 1993 1994 1995* 1996*	0 0 0 487 596	1 822 4 945 8 240 4 642 5 596	397 12 748 13 400 8 734 8 937	39 309 30 353 21 977 -17 868 -4 582	3 616 -5 783 -3 634	-1 791 -4 382 -2 134 1 421 808	59 2 588 1 501	37 915 38 719 33 302 -5 126 6 664	3 639 4 467 3 107 -1 216 -3 329	5 457 647 -6 985 12 775	-15 725 -29 801 -1 392 8 376 -1 346	-19 877 2 361 176	43 903
1994 IV	0	-1 005	1 426	-4 562	-3 283	-1 614	20	-4 729	4 366	4 678	545	9 589	3 855
1995* V	0 0 0 487	2 625 -1 243 151 3 109	392 3 482 2 940 1 920	150 -9 335 -2 503 -6 181	-3 501	-1 889 -974 1 618 2 666	146 523 1 079 839	-1 200 -6 303 3 134 -756	-2 601 865 -1 089 1 609	-333 -3 206 -3 192 -254	8 549 -2 136 -744 2 707		-12 023 -1 740
1996* 	0 0 0 596	1 743 709 2 652 492	1 216 6 143 374 1 204	2 635 -5 152 -4 841 2 777		502 363 -254 198	1 119 754 -180 -192	5 472 2 108 -4 902 3 987	-3 502 -702 -86 961	4 632 4 717 2 516 911	-552 -3 119 4 371 -2 047	578 896 6 800 –174	3 712 4 550
1997*	0	2 002	5 121	4 000	846	1 584	-86	10 618	-907	6 549	16 218	21 860	34 480

During	Capital						Financial	account						Errors
period	account, exports	Direct	F	Portfolio in	nvestment a	abroad			Other inve	stment abr	road	Total	Change	and omis-
	of capital	invest- ment abroad	Shares	Bonds	Money market in- struments	Finan- cial deriv- atives	Total (16+17+ 18+19)	Trade credits	Loans	Other capital	Total (21+ 22+23)	(15+ 20+24)	in central bank's re- serve asset (increase -)	sions s
	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1992 1993 1994 1995* 1996*	0 0 0 206 340	-3 372 8 050 22 447 7 339 16 309	46 873 434 892 3 278	321 767 -4 294 3 685 15 424	-855 -5 492	-279 -168 -172	3 115 3 571 -4 994 -1 084 18 895	3 634 1 923 1 213 3 839 389	3 409 -839 -7 460 -2 712 4 281	7 720 9 576 9 762 11 750 15 704	14 763 10 660 3 516 12 877 20 375	14 506 22 282 20 968 19 132 55 579	-1 219 -25 504 1 480	-293 6 055 -4 058 -4 852 -1 145
1994 IV	0	7 341	19	768	2 956	2	3 745	1 724	-2 734	-3 522	-4 532	6 555	-1 132	3 600
1995* I II III IV	0 104 0 102	2 212 1 490 1 027 2 610	-128 375 461 184	1 757 104 28 1 797	-2 798 521	-48 31 -37 -115	-668 -2 288 973 899	660 2 379 -132 933	-1 234 -150 1 044 -2 373	9 695 -7 809 3 431 6 433	9 121 -5 580 4 343 4 993	10 665 -6 377 6 343 8 502		2 118 -624 1 331 -7 678
1996* 	61 0 0 279	5 391 6 670 3 751 497	577 1 041 729 932	4 019 3 041 4 169 4 195	162 -2 457	-26 71 -51 -165	6 993 4 315 2 389 5 197	-605 716 -818 1 097	2 416 -2 064 1 565 2 364	6 458 4 830 1 924 2 491	8 269 3 483 2 671 5 952	20 654 14 468 8 811 11 646	7 254 8 457 -1 132 -505	3 534 -3 558 -872 -248
1997*	0	2 507	847	4 504	4 250	-30	9 571	877	3 248	-3 905	220	12 298	-22 134	-3 160

6.3 Finland's international investment position, mill. FIM

Position at							Liabilities						
end of period	Direct invest-			Portfolio inv	vestment				0	ther invest	tment		Total
period	ment in Finland	Shares	Bonds	Of which: markka denominat- ed bonds	Money market instru- ments	Finan- cial deriva- tives	Total (2+3+ 5+6)	Trade credits	Loans	Curren- cy and deposits	Other	Total (8+9+ 10+11)	liabilities (1+7+12)
	1	2	3	4	5	6	7	8	9	10	11	12	13
1992 1993 1994 1995* 1996*	19 348 24 391 31 846 36 894 42 536	5 138 30 375 60 558 63 746 108 932	211 361 266 269 258 823 228 676 230 147	22 285 19 638	19 391 14 995 10 309 10 099 10 689	-6 103 -5 179 1 545 3 634	235 889 305 536 324 511 304 066 353 401	13 305 18 206 19 852 18 540 15 100	78 330 90 825 82 649 69 249 83 373	4 025	78 804 54 188 46 566 53 557 53 745	182 320 167 243 152 498 143 914 153 952	437 557 497 170 508 855 484 874 549 889
1994 IV	31 846	60 558	258 823	22 285	10 309	-5 179	324 511	19 852	82 649	3 430	46 566	152 498	508 855
1995* 	34 509 33 386 33 665 36 894	53 488 79 430 93 020 63 746	254 534 243 399 233 054 228 676	18 054 20 230	7 065 5 577 7 262 10 099	-5 996 -6 768 -520 1 545	309 092 321 638 332 815 304 066	17 218 18 049 16 930 18 540	79 143 75 411 68 882 69 249	3 369 2 580 2 364 2 568	53 433 51 169 50 032 53 557	153 163 147 208 138 208 143 914	496 764 502 233 504 688 484 874
1996* I II III IV	38 701 39 414 42 030 42 536	68 674 80 962 91 198 108 932	241 179 234 442 225 433 230 147	23 965	11 192 11 126 11 286 10 689	2 424 3 099 2 948 3 634	323 468 329 629 330 865 353 401	14 975 14 344 14 024 15 100	77 934 81 836 82 365 83 373	1 518 1 939 1 742 1 733	55 412 51 588 55 621 53 745	149 838 149 707 153 752 153 952	512 007 518 750 526 647 549 889
1997*	44 533	129 824	240 786	27 707	11 972	2 816	385 398	13 687	90 798	2 677	70 762	177 924	607 855

Position						Ass	ets					
at end of	Direct		Po	rtfolio investr	ment			c	ther investr	nent		Total
period	invest- ment abroad	Shares	Bonds	Money market instruments	Financial deri- vatives	Total (15+16+ 17+18)	Trade credits	Loans	Curren- cy and deposits	Other	Total (20+21+ 22+23)	assets (14+ 19+24)
	14	15	16	17	18	19	20	21	22	23	24	25
1992 1993 1994 1995* 1996*	44 921 53 090 59 451 66 150 82 802	469 1 783 1 984 3 216 7 147	8 697 10 709 5 109 9 619 25 041	9 115	447 488 177 –21	17 083 23 968 16 696 15 748 35 645	21 389 26 256 25 500 28 358 29 482	35 251 35 981 24 847 20 381 25 826	12 665 5 799 8 257 7 290 5 908	78 257 91 127 109 847 115 543 124 017	147 562 159 162 168 451 171 571 185 233	209 565 236 221 244 598 253 469 303 680
1994 IV	59 451	1 984	5 109	9 115	488	16 696	25 500	24 847	8 257	109 847	168 451	244 598
1995* 	60 274 61 007 61 479 66 150	1 751 2 158 2 661 3 216	6 557 6 930 6 870 9 619	2 977 3 503	157 115 200 177	14 300 12 180 13 233 15 748	25 254 27 440 27 092 28 358	22 668 22 142 22 978 20 381	6 352 5 915 6 397 7 290	118 897 108 686 108 057 115 543	173 172 164 183 164 524 171 571	247 746 237 370 239 236 253 469
1996* 	74 293 79 836 82 040 82 802	3 994 5 009 5 845 7 147	14 063 16 834 20 610 25 041	5 670 5 842 3 176 3 478	169 93 48 –21	23 896 27 778 29 679 35 645	28 205 29 053 28 034 29 482	23 594 21 499 22 902 25 826	5 435 5 523 6 488 5 908	121 308 118 075 119 331 124 017	178 542 174 150 176 754 185 233	276 731 281 765 288 474 303 680
1997*	86 246	8 577	30 418	7 556	130	46 681	26 330	29 438	5 979	146 220	207 966	340 894

6.4 Finland's net international investment position (liabilities less assets), by sector, mill. FIM

Position at end of period	Corporate sector	House- holds and nonprofit institutions	Banks	Bank of Finland	Other financial institutions	Central govern- ment	Local govern- ment	Net (1+2+3+ 4+5+6+7)	Net interest and dividend expenditure	Net interest and dividend expenditure in relation to current accoun- receipts, %
	1	2	3	4	5	6	7	8	9	10
1992 1993 1994 1995* 1996*	33 761 54 315 82 428 71 574 109 492	-3 260 -3 436 -3 503 -2 293 -1 142	82 343 45 658 33 800 18 970 -13 719	-27 546 -33 279 -52 606 -47 708 -35 521	28 283 29 737 21 931 13 297 912	112 064 164 892 179 113 174 481 183 737	2 347 3 062 3 093 3 085 2 451	227 992 260 949 264 257 231 405 246 209	21 897 20 296 18 290	
1994 IV	82 428	-3 503	33 800	-52 606	21 931	179 113	3 093	264 257	3 903	7.2
1995* 	73 872 94 745 103 212 71 574	-3 359 -3 495 -3 599 -2 293	23 396 27 092 20 558 18 970	-53 298 -50 742 -47 488 -47 708	19 524 18 024 17 173 13 297	185 724 175 932 172 368 174 481	3 159 3 305 3 227 3 085	249 018 264 861 265 451 231 405	6 495 3 596	10.9 11.0 6.7 3.7
1996* 	74 977 83 898 93 174 109 492	-2 512 -2 605 -1 114 -1 142	4 719 -4 356 -5 707 -13 719	-42 679 -33 647 -34 482 -35 521	9 483 5 394 1 421 912	188 118 185 184 182 336 183 737	3 169 3 118 2 545 2 451	235 276 236 986 238 173 246 209	5 813 2 944	6.7 9.1 5.3 4.1
1997*	131 761	-1 251	5 398	-59 420	-1 065	189 139	2 399	266 961	4 818	8.1

7. Foreign trade 7.1 Exports, imports and the trade balance, mill. FIM

7.2 Foreign trade: indices of volume, prices and terms of trade, 1990=100

	o il dao baic			C. 1.	4 1011110 0	i dado, i.	750-760		
During period	Exports, fob	Imports, cif	Balance (1-2)	Period	Volu (seasonall	me y adjusted)	Prie	ces	Terms of trade
					Exports	Imports	Exports	Imports	
	1	2	3		1	2	3	4	5
1992 1993 1994 1995 1996*	107 463 134 114 154 164 176 021 185 798	94 947 103 165 120 612 128 556 140 996	12 516 30 949 33 552 47 465 44 802	1992 1993 1994 1995 1996*	102.7 120.6 136.5 145.7 152.7	84.7 83.6 98.0 104.6 112.9	103.1 109.7 111.4 119.2 120.2	108.6 119.6 119.3 119.2 121.1	95.0 91.7 93.3 100.0 99.3
1996* May June July Aug. Sept. Oct. Nov. Dec.	16 184 17 158 13 347 14 381 15 172 17 008 18 977 14 744	12 010 11 659 10 126 10 750 12 017 13 391 12 646 12 968	4 174 5 499 3 221 3 631 3 155 3 617 6 331 1 776	1996* May June July Aug. Sept. Oct. Nov. Dec.	153.8 165.9 141.0 155.6 152.9 163.0 178.6 150.5	113.1 113.8 106.6 108.0 116.7 120.6 116.4 120.2	121.8 121.3 119.6 118.2 117.6 118.0 117.8 116.7	121.8 121.6 121.8 120.9 121.6 122.3 120.8 120.8	100.0 99.8 98.2 97.8 96.7 96.5 97.5 96.6
1997* Jan. Feb. March April May	15 242 14 969 16 548 18 207 16 700	11 363 11 914 12 968 13 925 12 000	3 879 3 055 3 580 4 282 4 700	1997* Jan. Feb. March April May	161.6 159.0 166.5 179.5 166.8	116.6 117.9 119.5 127.8 113.2	116.6 115.9 115.5 116.2 116.2	121.6 121.3 121.1 120.8 122.3	95.9 95.5 95.4 96.2 95.0

7.3 Foreign trade by main groups, mill FIM

During period		Expo	rts by industri	es, fob			Impor	ts by use of g	oods, cif	
penod	Wood	Paper industry	Chemical industry	Metal and engineering	Other	Raw materials	Crude oil, fuels and	Finishe	d goods	Other
	products	products	products	industry products	goods	(excl. crude oil)	lubricants	Investment goods	Consumer goods	goods
	1	2	3	4	5	6	7	8	9	10
1992 1993 1994 1995 1996*	7 892 10 910 14 198 13 451 12 256	32 587 37 430 41 249 48 754 43 385	12 172 14 205 15 725 15 877 18 005	35 741 48 158 55 895 69 336 74 884	19 071 23 411 27 097 28 603 37 268	49 514 54 792 66 156 71 397 70 783	9 745 10 904 11 687 9 685 12 570	13 348 15 396 17 227 19 660 21 058	20 826 21 066 24 684 25 514 29 886	1 514 1 007 858 2 300 6 699
1996* April May June July Aug. Sept. Oct. Nov. Dec.	1 136 1 203 1 086 844 899 1 050 1 263 1 278 977	3 794 3 821 3 571 3 576 3 670 3 513 4 098 3 764 3 445	1 558 1 897 1 515 1 466 1 659 1 495 1 728 1 710 1 403	6 686 6 293 8 299 5 256 5 503 6 475 6 982 9 336 6 599	2 585 2 970 2 687 2 205 2 650 2 639 2 937 2 889 2 320	6 168 6 455 6 262 5 051 5 617 6 150 6 683 6 383 6 063	1 069 1 102 831 1 166 1 017 1 242 1 402 1 398 1 413	1 894 1 756 1 954 1 260 1 541 1 733 2 167 2 012 2 325	2 642 2 471 2 340 2 443 2 398 2 683 2 911 2 650 2 564	214 226 272 206 177 209 228 203 603
1997* Jan. Feb. March April	1 103 1 126 1 244 1 221	3 802 3 600 3 747 4 193	1 544 1 700 1 510 1 874	6 035 5 814 6 903 7 953	2 758 2 729 3 144 2 966	5 619 6 073 6 722 7 508	1 304 992 743 941	1 696 1 625 1 892 1 948	2 540 2 755 2 906 3 027	204 469 705 501

7.4 Foreign trade by regions and countries

Region and country —		Expo	ts, fob			lmį	oorts, cif	
	199	6*	April 1996	6 - March 1997	-	1996*	April 199	6 - March 1997
-	Mill. FIM	Percentage share	Mill. FIM	12-month change calculated from 12-month moving total	Mill. FIM	Percentage share	Mill. FIM	12-month change calculated from 12-month moving total
	1	2	3	4	5	6	7	8
European Union ¹ Austria Belgium and	101 490 1 614	54.5 0.9	102 685 1 689	1.9 12.9	85 511 1 560	60.2 1.1	85 557 1 487	8.8 -11.2
Luxembourg Denmark France Germany Greece Ireland Italy Netherlands Portugal Spain Sweden	4 692 5 652 7 863 22 516 963 1 096 4 772 7 377 914 3 979 19 937	2.5 3.0 4.2 12.1 0.5 0.6 2.6 4.0 0.5 2.1	4 800 5 656 7 871 22 521 1 022 1 187 5 009 7 631 931 4 195 19 956	-2.7 0.4 -2.1 -2.0 11.1 19.6 0.9 5.4 8.7 0.0 7.4	4 146 4 964 6 366 21 344 367 1 157 5 762 5 074 1 035 1 963 16 911	2.9 3.5 4.5 15.0 0.3 0.8 4.1 3.6 0.7 1.4 11.9	4 119 4 944 6 475 21 278 369 1 150 5 691 5 276 1 011 1 961 16 965	10.4 15.9 19.4 5.3 9.3 4.2 5.9 8.7 -4.1 12.3 10.1
United Kingdom	19 010	10.2	19 101	4.1	12 540	8.8	12 433	11.7
Rest of Europe Of which: Estonia Norway Poland Russia Switzerland	33 415 5 097 5 322 2 713 11 373 2 099	17.9 2.7 2.9 1.5 6.1	5 276 5 307 3 038 11 731 2 016	18.3 22.5 0.0 40.1 28.6 -11.2	1 672 5 952 1 305 10 280 2 434	16.8 1.2 4.2 0.9 7.2 1.7	1 723 6 120 1 408 10 947 2 437	13.1 6.4 14.0 2.1 17.8 8.7
Non-European								.=.
industrialized countries Of which:	2 23 030	12.4	21 952	3.2	19 833	14.0	19 361	-5.3
Australia Japan U.S.A.	2 045 4 844 14 761	1.1 2.6 7.9	2 078 4 529 13 888	-10.0 -6.5 9.4	1 239 7 311 10 387	0.9 5.2 7.3	1 146 7 330 9 975	12.0 -10.8 -3.1
Dynamic Asian economies ³ Of which:	13 833	7.4	14 086	15.1	6 514	4.6	6 566	0.3
China Hong Kong South Korea	2 707 3 037 2 723	1.5 1.6 1.5	2 866 3 005 2 675	15.6 21.0 15.6	2 088 693 792	1.5 0.5 0.6	2 243 705 738	23.0 8.2 –26.8
Other countries	14 568	7.8	15 835	9.6	6 224	4.4	6 732	45.4
TOTAL Of which:	186 336	100.0	188 786	6.2	141 953	100.0	143 138	8.2
Africa Asia Central and	2 554 27 484	1.4 14.7	2 642 28 616	0.5 16.9	937 16 196	0.7 11.4	948 16 596	47.3 1.8
South America North America Europe Oceania	3 075 15 825 134 906 2 491	1.7 8.5 72.4 1.3	3 052 15 017 136 914 2 543	-62.4 8.4 5.5 -1.5	2 750 11 229 109 383 1 457	1.9 7.9 77.1 1.0	2 873 10 823 110 479 1 418	42.3 -2.9 9.8 24.4

Including exports / imports to EU unspecified by country.
 Australia, Canada, Japan, New Zealand, United States.
 China, Hong Kong, Malaysia, Singapore, South Korea, Taiwan, Thailand.

Domestic economic developments
Supply and use of resources, mill. FIM, 1990 prices (seasonally adjusted figures)

Period		umption nditure	Fixed	d stment	Change in stocks,	Domestic demand	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
1992 1993 1994 1995 1996*	247 363 240 177 244 761 255 968 264 595	108 799 103 028 102 728 104 645 107 258	75 338 60 638 60 543 69 718 75 685	16 899 13 890 14 107 13 338 14 259	4 534 10 221 22 236 20 568 18 308	452 933 427 954 444 375 464 237 480 105	122 059 142 459 161 376 174 580 181 334	112 989 113 842 128 411 137 327 143 497	462 003 456 571 477 340 501 490 517 942
1994 IV	62 105	25 938	15 931	3 552	8 189	115 715	41 978	35 948	121 745
1995 V	63 164 64 188 64 076 64 540	25 610 26 199 26 292 26 544	17 416 17 183 18 134 16 985	3 416 3 329 3 246 3 347	4 626 4 401 6 166 5 375	114 232 115 300 117 914 116 791	44 154 44 505 42 428 43 493	33 693 34 171 34 674 34 789	124 693 125 634 125 668 125 495
1996* 	65 631 65 565 66 266 67 133	26 503 26 788 26 899 27 068	18 088 18 333 19 703 19 561	3 416 3 585 3 653 3 605	6 134 3 813 4 330 4 031	119 772 118 084 120 851 121 398	43 056 45 048 45 434 47 796	36 071 35 265 35 415 36 746	126 757 127 867 130 870 132 448
1997*	67 368	27 026	18 552	3 788	4 350	121 084	47 286	36 531	131 839

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	Energy and water supply	
	(100.0)	(1.3)	(89.6)	(16.8)	(31.3)	(41.5)	(9.1)	
	1	2	3	4	5	6	7	
1992	92.4	88.4	91.4	94.6	91.1	90.2	103.0	
1993	97.4	86.1	96.4	104.5	99.7	90.8	107.9	
1994	108.5	96.2	108.1	117.0	119.5	95.8	114.3	
1995	117.0	93.9	117.8	117.4	145.7	96.9	112.4	
1996*	121.4	87.2	121.7	114.6	155.1	99.3	123.3	
1996*								
May	120.4	81.9	120.6	110.1	153.5	98.9	126.9	
June	121.9	80.7	122.4	111.2	155.4	100.2	121.8	
July	120.6	55.5	121.3	115.4	152.8	100.6	123.1	
Aug.	120.4	150.9	120.4	116.6	153.7	99.5	122.6	
Sept.	124.0	84.8	124.1	119.4	157.5	100.3	126.9	
Oct.	124.5	85.4	124.5	120.1	159.4	100.2	128.5	
Nov.	126.1	84.6	126.8	123.3	162.1	100.4	121.0	
Dec.	127.7	78.7	128.3	120.2	163.7	101.8	125.6	
1997*								
Jan.	126.1	84.8	126.3	126.0	162.1	101.5	130.8	
Feb.	125.7	89.2	126.5	125.2	162.3	102.1	125.6	
March	128.9	94.9	129.8	127.4	165.6	102.4	124.2	
April	128.2	93.4	129.2	127.9	166.4	101.6	124.8	
May	128.3	80.8	129.9	130.4	166.5	101.8	121.8	

8.3 Indicators of domestic supply and demand, 1990=100 (seasonally adjusted figures)

Period	Volume of wholesale	Volume of retail	Volume of construction of buildings	Of whi	ich:	Imports of investment	Monthly GDP indicator	
	trade	trade		Residential buildings	Industrial buildings	goods		
	1	2	3	4	5	6	7	
1992 1993 1994 1995 1996*	72.7 68.5 73.0 76.2 77.8	83.0 78.1 79.7 82.6 86.0	59.9 46.9 42.2 42.0 43.9	57.3 47.2 45.1 41.1 38.5	44.8 35.6 35.2 49.9 55.6	78.1 72.9 84.4 88.5 102.8	91.1 89.9 93.7 97.7 100.6	
1996* May June July Aug. Sept. Oct. Nov. Dec.	85.9 82.7 87.3 86.8 85.1 89.3 88.3 88.2	77.5 72.9 79.4 75.3 76.9 81.3 77.7	42.6 42.9 43.9 43.7 45.3 45.7 46.3 47.8	38.7 36.8 35.4 33.1 35.0 37.7 41.4 45.9	52.6 50.3 51.8 52.2 52.1 51.5 51.6 53.3	102.9 104.6 105.7 100.2 109.2 114.4 108.2 112.1	100.0 99.8 100.9 100.8 102.1 103.4 103.0 104.0	
1997* Jan. Feb. March April May	89.7 86.3 84.0 90.2 88.2	81.8 78.5 73.7 88.7 78.3	47.8 48.7 49.1 50.6 51.8	48.7 51.0 52.7 55.2 54.0	55.2 56.8 57.3 58.0 60.1	109.3 111.2 108.1 117.4	104.2 103.7 104.5 106.2 105.2	

8.4 Wages and prices, 1990=100

Period	Index of wage and salary earnings	By sectors		Con-	Indica-	Basic	By origin		Produc-	By marketing area		Building	
		Private	Of which: Manufac- turing (SIC	Public	sumer price index	tor of under- lying infla- tion	price index for domestic supply	Domes- tic goods	Import- ed goods	er price index for manu- facturing	Export- ed goods	Home market goods	cost index
	1	2	3	4	5	6	7	8	9	10	11	12	13
1992 1993 1994 1995 1996 ¹	108.4 109.2 111.4 116.6 121.1	108.1 108.8 111.6 117.4 121.8	108.3 110.0 115.0 123.1 127.5	109.0 110.1 111.1 114.7 119.2	107.4 109.7 110.9 112.0 112.6	107.1 109.9 111.4 111.3 111.4	101.4 104.8 106.2 106.9 105.9	99.5 100.8 102.8 103.8 102.0	108.5 119.3 118.7 118.5 120.1	101.6 105.5 107.1 110.8 110.9	102.7 109.2 110.2 118.0 118.5	101.1 103.9 105.8 107.7 107.6	100.4 100.7 102.2 103.5 102.7
1996 June July Aug. Sept. Oct. Nov. Dec.	27 24 24 24 24	 	(0.0) (0.0) (0.0) (0.0) (0.0)		112.9 112.8 112.6 112.8 113.0 112.7 112.7	111.7 111.5 111.1 111.5 111.7 111.5 111.5	105.5 105.5 105.4 105.9 106.4 105.9 106.3	101.4 101.2 101.3 101.9 102.5 102.3 102.7	120.9 121.0 120.2 120.8 120.8 119.3 119.3	110.8 110.2 109.7 109.8 110.2 110.0 110.1	119.5 117.8 116.4 115.8 116.2 116.0 115.5	107.1 106.9 106.8 107.2 107.6 107.4 107.8	102.7 102.8 103.1 103.0 103.1 103.3 103.4
1996¹	120.3 120.6 120.7 123.1	121.1 121.4 121.4 123.9	126.8 127.1 127.0 130.3	118.3 118.6 118.9 121.4	112.3 112.8 112.7 112.8	111.3 111.6 111.3 111.6	106.1 105.8 105.6 106.2	102.3 101.7 101.5 102.5	118.9 121.1 120.7 119.8	112.2 111.3 109.9 110.1	121.2 120.0 116.7 115.9	108.4 107.6 107.0 107.6	102.0 102.4 103.0 103.3
1997 Jan. Feb. March April May June	4.0 4.0 4.0 4.0 4.0 4.0				112.6 112.8 113.2 113.8 114.0 114.2	111.1 111.3 111.7 112.0 112.3	106.5 106.7 106.7 106.6 107.3 107.4	102.6 103.2 103.2 103.2 103.6 103.9	120.1 119.8 119.6 119.3 120.8 120.5	110.1 110.2 110.2 110.4 110.7 111.0	115.3 115.0 114.5 115.2 115.2 115.4	107.7 108.1 108.3 108.4 108.7 109.1	103.7 103.7 104.1 104.4 104.8 105.2
1997¹	123.5	124.3	130.8	121.7	112.9	111.4	106.6	103.0	119.8	110.2	114.9	108.0	103.8

¹ Preliminary figures for columns 1-4.

8.5 Labour, employment and unemployment (seasonally adjusted figures)

Period	Labour force	Labour		By industr	ial status		By industry	Unem-	Unem-	
	partici- pation rate among 15–74 year olds	Torce	employ- ment (4+5) = (6+7+8)	Self- employed	Wage and salary earners	Agri- culture, forestry and fishing	Mining, manufac- turing and energy supply	Other industries	ployed	ploy- ment rate
					1000 pers	ons				%
	1	2	3	4	5	6	7	8	9	10
1992 1993 1994 1995 1996*	66.1 65.3 64.8 65.1 65.0	2 502 2 484 2 480 2 497 2 503	2 174 2 041 2 024 2 068 2 096	325 312 312 304 302	1 849 1 729 1 712 1 764 1 794	187 173 167 158 148	453 424 426 456 459	1 534 1 444 1 430 1 454 1 489	328 444 456 430 408	13.1 17.9 18.4 17.2 16.3
1996* June July Aug. Sept. Oct. Nov. Dec.	64.7 64.8 65.5 64.6 65.0 65.6 65.1	2 518 2 524 2 546 2 513 2 528 2 550 2 531	2 102 2 124 2 135 2 120 2 134 2 149 2 139	316 331 332 313 316 326 323	1 786 1 794 1 803 1 807 1 818 1 823 1 816	176 168 164 169 166 165 161	455 467 456 441 469 469 453	1 471 1 489 1 515 1 510 1 499 1 514 1 525	416 400 411 393 395 402 391	16.6 15.8 16.2 15.5 15.5 15.8
1997* Jan. Feb. March April May June	65.4 66.0 66.1 66.5 66.7 66.6	2 528 2 549 2 554 2 566 2 577 2 573	2 133 2 154 2 155 2 159 2 172 2 182	314 326 319 330 328 332	1 820 1 828 1 836 1 829 1 844 1 850	158 157 154 151 146 144	460 469 456 458 462 456	1 516 1 527 1 545 1 550 1 564 1 581	395 395 399 407 406 391	15.6 15.4 15.7 15.9 15.9

8.6 Central government finances: revenue, expenditure and financial balance,

mill FIM, cash flow basis

During period	Revenue							Expenditure			
	Direct taxes	Indirect taxes	Other taxes and similar revenue	Other revenue	Revenue before financial transactions (1+2+3+4)	Redemp- tions of loans granted by the state	Revenue before borrowing (5+6)	Consump- tion	Trans- fers and subsidies	Of which:	
										Local govern- ment	Other domestic sectors
	1	2	3	4	5	6	7	8	9	10	11
1992 1993 1994 1995 1996	34 312 31 667 34 588 40 092 48 357	69 541 67 291 68 124 66 902 73 943	1 512 1 443 1 792 1 720 1 947	21 251 28 823 24 095 35 837 39 778	126 616 129 224 128 599 144 550 164 024	5 054 7 366 7 308 7 923 9 893	131 669 136 593 135 900 152 473 173 918	49 291 46 880 48 750 51 446 53 696	105 184 108 608 108 155 113 644 110 039	42 990 42 720 40 388 39 481 33 199	59 180 63 535 65 519 67 514 69 533
1996 April May June July Aug. Sept. Oct. Nov. Dec.	3 590 3 016 3 435 3 817 3 766 3 481 3 590 4 260 6 515	5 237 5 805 5 863 6 187 6 125 6 391 6 542 6 049 5 228	58 75 72 59 59 57 58 91 69	4 006 2 979 5 222 2 003 2 483 2 526 3 602 3 216 4 324	12 891 11 876 14 592 12 067 12 433 12 455 13 792 13 616 16 136	3 469 843 850 323 219 3 261 329 1 113 -1 050	16 360 12 719 15 443 12 390 12 652 15 716 14 121 14 729 15 087	4 154 4 095 5 032 5 036 3 913 4 579 4 205 4 068 6 133	9 517 8 753 8 952 8 707 6 090 8 030 10 912 7 922 11 691	2 945 2 996 2 863 2 891 1 476 2 747 2 995 2 301 2 698	5 752 5 189 5 459 5 151 4 505 4 913 7 040 5 158 8 599
1997 Jan. Feb. March April	3 070 3 984 6 173 3 808	6 448 5 292 8 768 5 040	121 63 353 219	3 151 3 363 2 692 3 072	12 790 12 702 17 986 12 139	48 37 213 3 262	12 839 12 739 18 199 15 401	3 875 3 649 4 753 4 102	11 713 8 393 8 779 10 571	3 518 3 467 3 719 4 062	6 429 4 437 4 702 5 786

During period			Expenditu	ıre	Financial balance				
	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)	Revenue surplus (5–14)	Net borrowing requirement (7–16)	Net borrowing	Cash surplus (18+19)
	12	13	14	15	16	17	18	19	20
1992 1993 1994 1995 1996	5 042 4 306 3 737 3 208 3 325	8 499 18 076 22 281 26 336 29 911	168 016 177 870 182 923 194 635 196 972	35 501 19 753 17 886 16 765 13 756	203 516 197 623 200 760 211 399 210 747	-41 400 -48 646 -54 324 -50 085 -32 947	-71 847 -61 030 -64 860 -58 926 -36 828	70 691 84 036 73 193 54 071 33 845	-1 155 23 009 8 336 -4 854 -2 983
1996 April May June July Aug. Sept. Oct. Nov. Dec.	175 207 219 316 334 290 369 260 560	2 759 1 291 3 060 1 154 1 090 4 787 1 832 963 1 637	16 605 14 346 17 262 15 214 11 427 17 686 17 318 13 213 20 021	3 605 770 2 075 437 457 586 489 479 3 388	20 210 15 117 19 338 15 651 11 884 18 272 17 807 13 693 23 426	-3 714 -2 470 -2 670 -3 147 1 006 -5 231 -3 526 403 -3 885	-3 850 -2 398 -3 895 -3 261 768 -2 556 -3 686 1 036 -8 339	6 544 2 496 3 503 3 900 6 829 -10 228 -258 -191 3 375	2 694 98 -392 639 7 597 -12 784 -3 943 846 -4 965
1997 Jan. Feb. March April	131 221 164 193	5 180 663 4 660 3 094	20 899 12 926 18 356 17 960	538 421 425 4 670	21 437 13 347 18 780 22 630	-8 109 -224 -370 -5 821	-8 598 -608 -581 -7 229	9 507 7 344 1 203 -2 609	909 6 736 622 -9 837

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

- PreliminaryRevised
- 0 Less than half the final digit shown
- . Logically impossible
 .. Data not available
- 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 12) = bank certificates of deposit held by the Bank of Finland + securities with repurchase commitments + term credits - term deposits. Other claims on financial institutions, net (Column 14) = till-money credits to deposit banks (until May 1993) + bonds + other claims on financial institutions + liquidity credits - call money deposits (until September 1995) - 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 From 2 October 1995, banks fulfil their minimum reserve requirement as a monthly average of deposits. From October 1995, the requirement and deposits are shown for the month during which the requirement is to be fulfilled. Before deposits were shown for the previous month, because deposits were matched with the requirement on the last banking day of that month. The requirement is determined on the basis of the reserve base two months earlier (up to September 1995 one month earlier). The reserve base was changed on 31 March 1995 to comply with the new balance sheet format. Liquidity credits (Column 7): see explanations, Table 3.2.

Table 2.2 Money market instruments 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 2.3 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 payment 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 2.4 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. Since 1 June 1995, HELIBOR rates (Helsinki Interbank Offered Bate) (Columns 2–5) have been calculated on the basis of the bid rates (offered rates for funds) quoted for their own certificates of deposit by all the banks that have been accepted by the Bank of Finland as counterparties in money market operations. An additional condition is that a bank gives regular quotations. The highest and lowest rates quoted for each maturity are omitted and an arithmetic average calculated for the remaining rates. The quotations are taken daily at 1 p.m.

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.

Credit institutions which are subject to the minimum reserve requirement and maintain a current account with the Bank of Finland may obtain liquidity credit to cover overdrafts and to fulfil their minimum reserve requirement. They can obtain liquidity credit 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 in use prior to October 1995 was obtained by subtracting the interest rate margin for call money deposits from the Bank of Finland's tender rate. Since 2 October 1995, the monthly average of a bank's call money deposits exceeding the minimum reserve requirement has been treated as excess reserve. The interest rate paid on excess reserves is determined separately by the Bank of Finland. The values for maturity and interest rate margins are the last values recorded in each period.

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 (Columns 1–4): rates of interest on new credits drawn during the month are average monthly rates weighted by loan amounts. Annual rates are arithmetic average of monthly observations 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, 24-month 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 peri-od 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 tax-exempt 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. The yields on fiveyear and ten-year government bonds (Columns 3 and 4) are calculated by the Bank of Finland as averages of the bid rates quoted daily by the primary dealers. The five-year yield is based on quotations for a fixed-rate bullet serial bond (1/94, 15 September 1994 – 15 September 2001). As from 9 August 1996 the ten-year yield is based on quotations for a fixed-rate bullet serial bond (1/96, 18 Apr 1996-2006). The share yield (Column 5) 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 quoted daily at noon Finnish time. The markka was floated on 8 September 1992, continuing until 14 October 1996, when it was joined to the EU's Exchange Rate Mechanism (ERM) at the central rate of 5.80661 per ECU. As from 25 November 1996 the ECU central rate is FIM 5.85424. Trade-weighted currency index (Column 2): The weights are moving averages of the shares of (currently) 16 countries in Finland's foreign merchandise trade (only convertible currencies are included). The payments currency index (Column 3): The weights are moving averages of shares of payments currencies (16 convertible currencies) in Finland's foreign trade.

Table 4.3 The table shows the deviations of the markka's market exchange rate (markka value of the foreign currency) as a percentage of the ERM central rate for each currency. A plus (+) indicates that the markka is weaker than its central rate value against the other currency; the intervention limit is (central rate) +16.121 per cent. A minus (-) indicates that the markka is stronger than its central rate value against the other currency; the intervention limit is (central rate) -13.881 per cent.

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 5.3 Foreign assets, net (Column 1) = the Bank of Finland's foreign claims + 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 deposits 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. (Column 7) = M, + quasi-money (markka time deposits held by the public, excl. deposits with the Bank of Finland). Ma (Column 8) = M2 + 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 long-term 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 (Column 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.

Table 5.5 Source: Table A: Financial Supervision from the beginning of 1994. 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 primary dealers and banks entitled to central bank financing. As from 14 July 1995 the following act as primary dealers: Alfred Berg Pankkiiriliike Oy, Evli Fixed Income Securities, Goldman Sachs International. Merita Bank, Okobank, Postipankki, Skandinaviska Enskilda Banken, Svenska Handelsbanken AB (publ), Branch Operation in Finland and Unibank A/S. Purchases from and sales to others (Colums 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. Bank of Finland releases data daily (page SPFI on Reuters and page 20981 on Telerate) on the trading in benchmark government bonds among primary dealers and between primary dealers and their customers.

Table 5.6 Source: The Helsinki Stock Exchange. The table has been expanded to take into account the change in the Helsinki Stock Exchange classification of listed companies as from the start of 1997. Column 3 now in-

cludes only insurance.

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 trade figures for 1995 have been estimated on the basis of a survey of firms carried out by the Bank of Finland. The official foreign trade statistics published by the Board of Customs are delayed owing to changes in statistical systems caused by Finland's entry into the EU. 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 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, Fifth Edition,

1993).

Table 6.2 The capital account (Columns 1 and 14) reflects unrequited capital transfers such as forgiven debts and aid from EU funds. Financial derivatives include payments arising from currency and interest rate swaps related to loans, ie outstanding loans are recorded according to the original loan contract. Medium-term notes (MTNs) are included under bonds (Columns 4 and 17). The category other investment (Columns 9-12 and 21-24) 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 9 and 21). The item 'Other capital' (Columns 11 and 23) includes transactions in currency and deposits and shortand 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 capital' comprises banks' other short-term assets and liabilities (in practice interbank deposits). The central bank's reserve assets (Column 26) comprise gold, special drawing rights (SDRs), the reserve position in the IMF, ECU-claim on the EMI and foreign exchange assets. A negative figure implies an increase in reserves.

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 (except for table 7.2). All tables refer to foreign trade in goods.

Table 7.2 The volume indices (Columns 1 and 2) are calculated from the export and the import values, deflated by the price indices (Columns 3 and 4). Deflation and seasonal adjustments are carried out by the Bank of Finland. The export and the import price indices are provided by Statistics Finland. The terms of trade (Column 5) is the ratio of the export price index to the import price index, multiplied by 100.

Table 7.4 In addition to all EU countries, those countries are listed whose shares of Finland's exports are at least 1 per cent.

8 Domestic economic developments

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

Table 8.2 The indices of industrial production are adjusted for the number of working days in each month. This causes in small differences the annual averages from the corresponding unadjusted figures. For this reason the indices for 1990 also differ marginally from conventional base-year figures, ie 100.0.

Table 8.3 The indices of wholesale and retail trade (Columns 1 and 2) are seasonally adjusted by Statistics Finland. The monthly GDP indicator (Column 7) is a weighted index of 11 readily available output indicators for various industries.

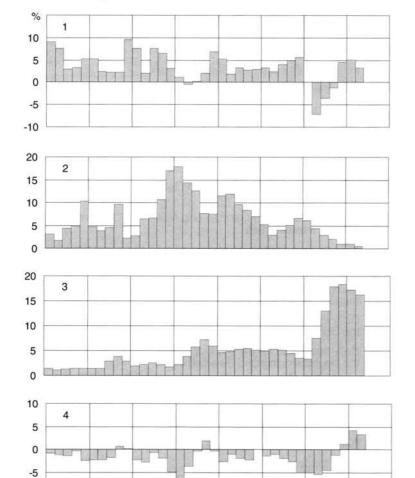
Table 8.4 The indicator of underlying inflation (Column 6) is the consumer price index from which the effect of indirect taxes, subsidies and housing-related capital costs (house prices and mortgage interest payments) has been removed (see the article by Pentti Pikkarainen and Timo Tyrväinen in the June – 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.

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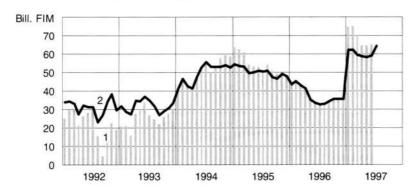
Long-term indicators



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

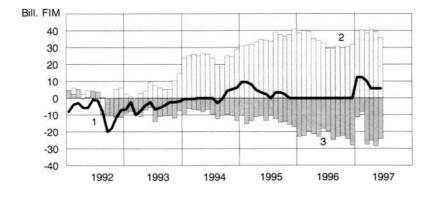
-10

The Bank of Finland's foreign exchange reserves and forward position



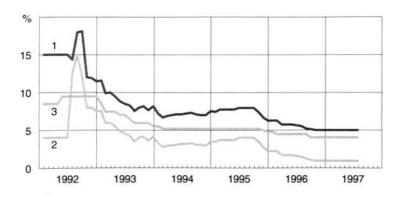
- Foreign exchange reserves plus forward position
- Foreign exchange reserves

3. Forward market



- Forward exchange purchased by the Bank of Finland
- Forward exchange sold to banks by domestic customers
- Forward exchange sold to banks by foreign customers

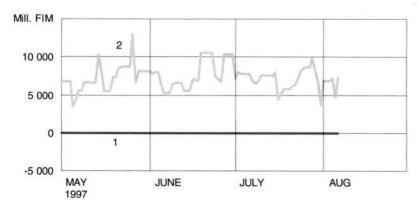
4. Rates of interest set by the Bank of Finland



- Liquidity credit rate (up to 2 July 1992 call money credit rate)
- Excess-reserve rate
 (call money deposit rate
 until 2 October 1995)
- 3. Base rate

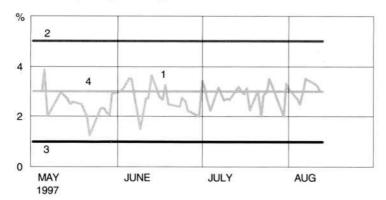
End-of-month observations

Banks' liquidity position at the Bank of Finland



- 1. Liquidity credits (-)
- 2. Reserve deposits

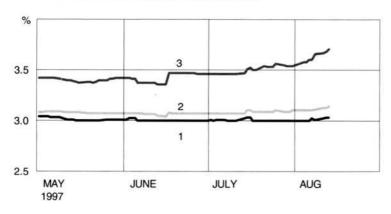
Liquidity management interest rates



- Inter-bank overnight rate Liquidity credit rate
- 3. Excess-reserve rate
- Tender rate

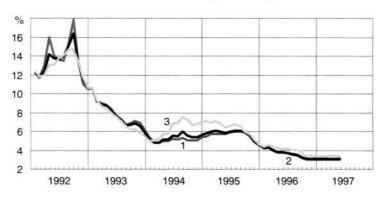
Daily observations

7. HELIBOR interest rates, daily



- 1-month HELIBOR
- 3-month HELIBOR
- 12-month HELIBOR

HELIBOR interest rates, monthly



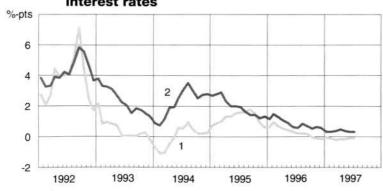
- 1-month HELIBOR
- 3-month HELIBOR
- 12-month HELIBOR

9. **Bond yields**



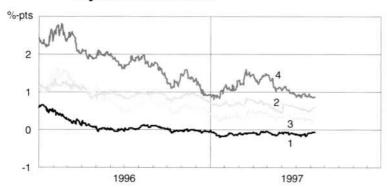
- Yield on 5-year
- government bonds Yield on 10-year 2. government bonds

10. Differential between Finnish and German interest rates



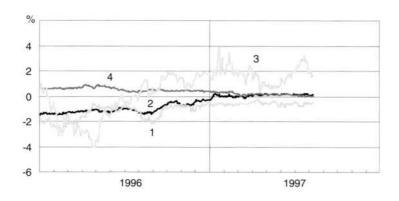
- 1. 3-month HELIBOR minus 3-month DEM eurorate
- 10-year Finnish government bond yield minus 10-year German government bond yield

11. Differential between German and selected EU-countries' 10-year interest rates



- France
- 2. Denmark
- Finland
- 4. Sweden

12. ERM exchange rates: deviation from DEM central parity



- FRF
- 2. DKK FIM
- 4. NLG

the DEM

Rising curve means appreciation against

13. ERM exchange rates: deviation from DEM central parity



- **ESP** PTE
- 2. 3. 4. IEP ATS
- BEF
- 6. ITL

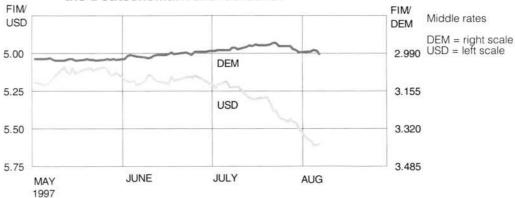
Rising curve means appreciation against the DEM

14. Bank of Finland currency index and markka value of the ECU

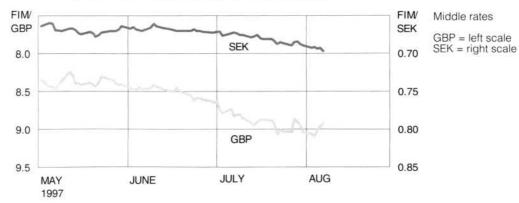


- 1. Bank of Finland currency index, 1982 = 100 (left scale)
- Markka value of the ECU from 7 June 1991 (right scale)
- ECU central rate from 14 October 1996 (right scale)

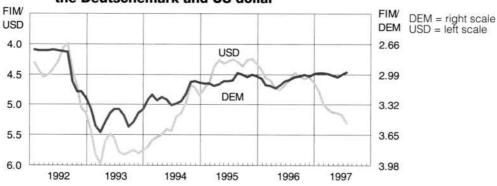
15. Daily spot rates for the markka against the Deutschemark and US dollar



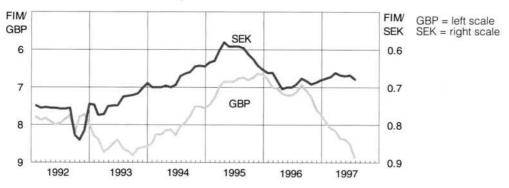
16. Daily spot rates for the markka against the pound sterling and Swedish krona



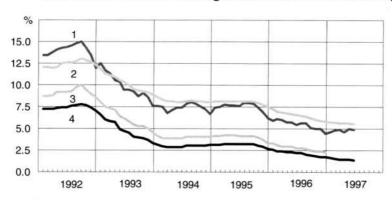
17. Monthly spot rates for the markka against the Deutschemark and US dollar



18. Monthly spot rates for the markka against the pound sterling and Swedish krona

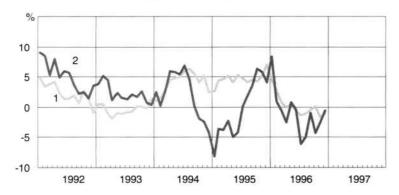


19. Banks' markka lending rates and markka funding rates



- Average rate on new markka lending
- Average rate on outstanding markka lending
- Average rate on total markka funding (deposits + other funding)
- Average markka deposit rate

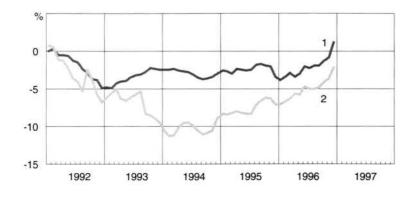
20. Bank funding from the public



- Markka deposits
- Total funding 2.

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

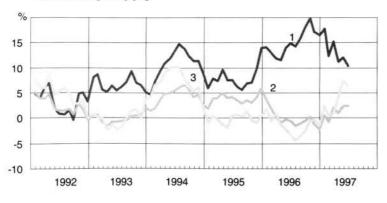
21. Bank lending to the public



- Markka lending
- 2. Total lending

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

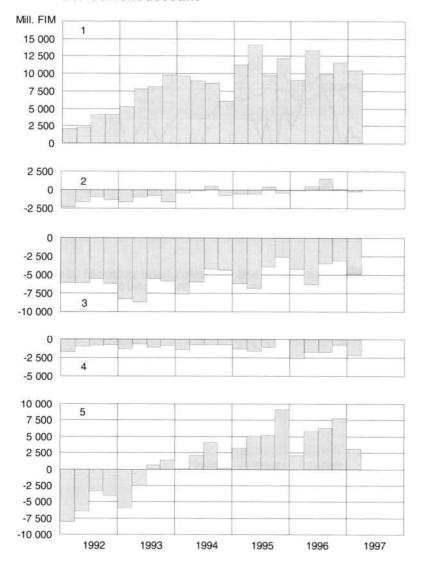
22. Money supply



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

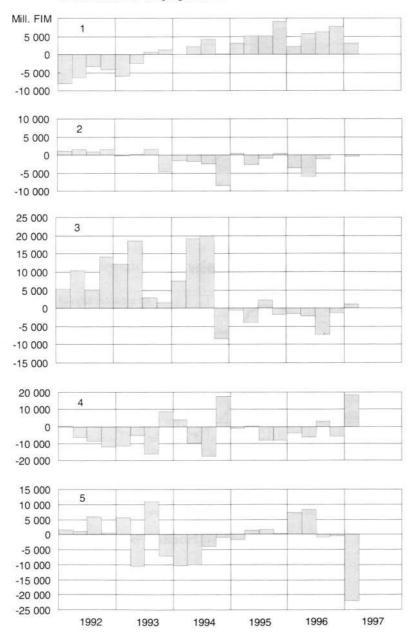
Change from the corresponding month of the previous year, per cent

23. Current account



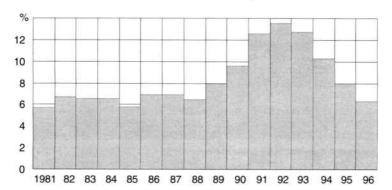
- 1. Trade account
 - Services account
- Investment income account
- Unrequited transfers account and other items, net
- Current account

24. Balance of payments



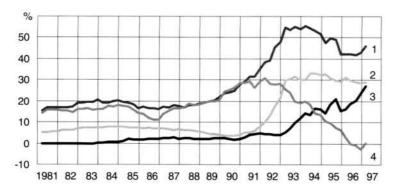
- Current account Direct investment
- 2. Portfolio investment
- Other investment
- Change in central bank's reserve assets (increase = -)

25. Net interest and dividend expenditure



As percentage of current account receipts

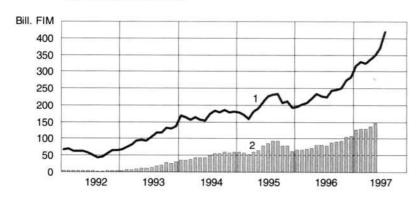
26. Finland's net international investment position



As a percentage of GDP

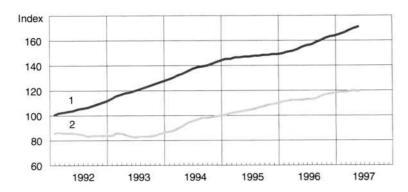
- 1. Total net debt
- Central government (in foreign currencies)
- Markka-denominated securities
- Other, net (excl. Bank of Finland's foreign exchange)

27. Share market



- Market capitalization of listed shares
- Non-residents' holdings of Finnish shares

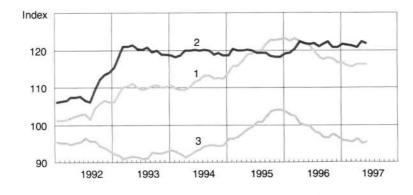
28. Foreign trade



- Exports of goods
 Imports of goods
- Valuma inday 1000 10

Volume index, 1990 = 100, trend

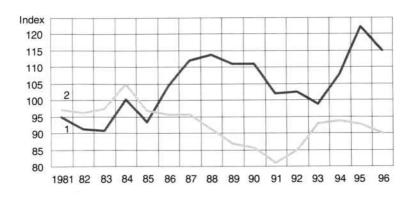
29. Foreign trade: prices and terms of trade



- Export prices
- 2. Import prices
- 3. Terms of trade

Index 1990 = 100

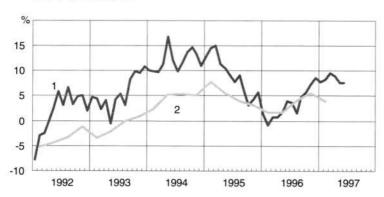
30. Finland's export performance



- Value of exports to OECD countries in relation to imports of OECD countries
- Volume of exports to OECD countries in relation to imports of OECD countries

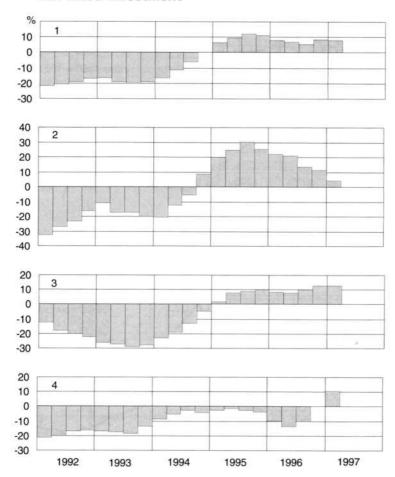
1980 = 100

31. Production



- Industrial production, change in volume from the corresponding month of the previous year, per cent
- per cent
 2. GDP,
 change in volume from
 the corresponding
 quarter of
 the previous year,
 per cent

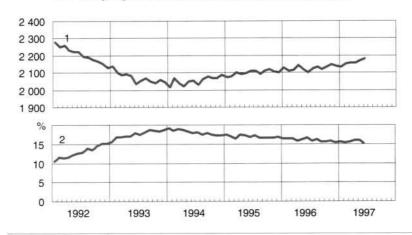
32. Fixed investment



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

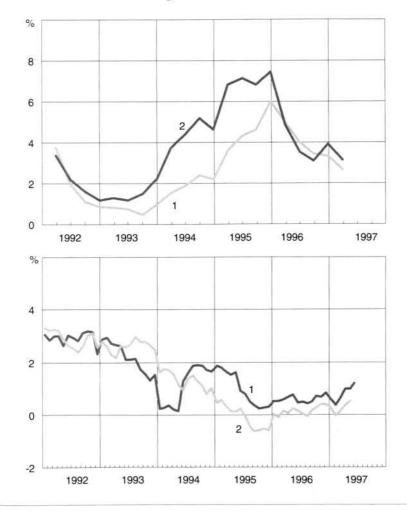
Four-quarter volume change calculated from four-quarter moving totals and plotted at the last quarter, per cent

33. Employment and the unemployment rate



- Employment, 1000 persons
- Unemployment rate, per cent

34. Prices and wages



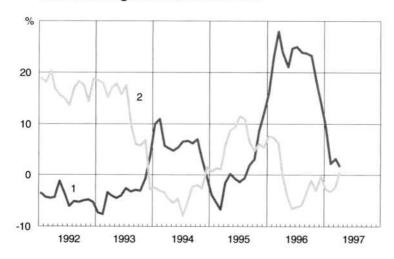
- 1. Index of wage and salary earnings, all wage and salary
- earners
 2. Index of wage and salary earnings, manufacturing workers

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

- Consumer price index
 Indicator of underlying
- inflation

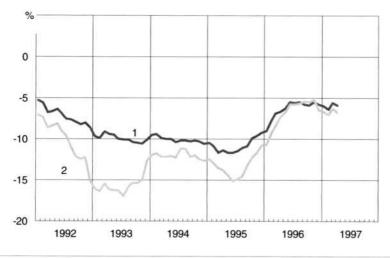
Change from the corresponding month of the previous year, per cent

35. Central government finances



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

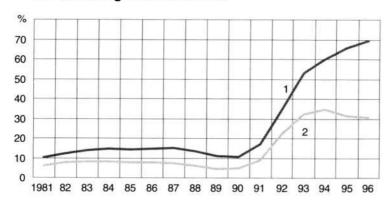
12-month changes calculated from 12-month moving totals and plotted at the last month, per cent



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

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

36. Central government debt



- Total debt
- Of which: foreign currency-denominated debt

As a percentage of GDP