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Recent Developments in the Finnish Securities Market

Monetary Aggregates and Indices in Finland

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RECENT DEVELOPMENTS IN THE FINNISH SECURITIES MARKET

by **Pertti Pylkkönen,** M.Pol.Sc. Financial Markets Department Bank of Finland

he long upward trend in the Finnish stock market came to an end in October in the wake of the stock market collapse in the United States. Though the downturn in Finland can hardly be called a crash, some prices did experience marked falls in the short run. But compared with other industrialized countries, market values held their ground reasonably well in Finland, and at the end of 1987 equity prices were 31 per cent higher than a year earlier. The fall in stock market values can be regarded as an adjustment that brought the overheated market better into line with economic fundamentals in the corporate sector.

The sharp fluctuations in the stock market had scarcely any impact on the bond market. For instance, the effective yields on bonds remained stable throughout the October fall, an indication of the continuing thinness and inefficiency of the Finnish bond market inspite of its expansion in the past few years.

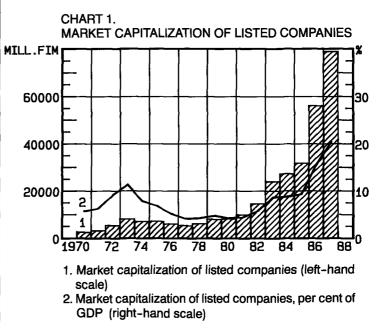
BACKGROUND

Structural change in the Finnish economy has been reflected in pressures for change in the Finnish financial markets, which have traditionally been characterized by the prominent role of banks in financial intermediation and the relatively minor importance of the capital market as a source of business finance. In the past few years, however, the money market, in particular, but also the capital market have experienced rapid expansion.

Encouraged by tax reliefs, favourable income developments and slower growth in housing investment, households have not only increased consumption but also channelled more and more of their improved liquidity into financial assets of various kinds. Nevertheless, despite the growth of personal shareholding the relative share of households in the ownership of listed shares has fallen, currently accounting for just over one-third. The equity participation of private individuals is highest, some 60 per cent, in commercial banks quoted on the stock exchange.

Personal share ownership has been reduced to some extent by the fact that investors engaged in active share trading have set up securities trading companies with the aim of minimizing taxation. Households are switching part of their securities investment to unit trusts (mutual funds). Legislation on unit trusts came into force in the autumn of 1987, and several trust corporations commenced business immediately. However, the fall in share prices cast a shadow over the initial phase of their operations, and the importance of unit trusts in allocating capital has been rather modest so far. In the first six months of their operations, unit trusts raised funds to the value of some FIM 500 million.

Companies have raised the bulk of their finance in the form of internally generated funds or by borrowing from financial institutions, which was an attractive alternative for companies some years ago because of the fast rate of inflation and the low level of regulated interest rates. In the past few years, just under 10 per cent of corporate sector investment has been financed by capital raised directly on the equity market. The limited importance of the stock market for the economy can also be seen



in the fact that the market capitalization of listed companies in relation to GDP has been low until very recently (Chart 1).

As public sector budget deficits have been low in Finland, the central government and local authorities have not played an active role in the development of the money and markets. Local capital authorities have borrowed predominantly from financial institutions, while the central government has covered its long-term domestic borrowing requirements through issues of bonds. sold mainly to households, and by placing debt with insurance institutions. The central government's access to the short-term (less than twelve-month) money market was prohibited by legislation on budgeting in force until the end of 1987. With effect from the beginning of 1988, the central government has started to issue 3-month Treasury bills.

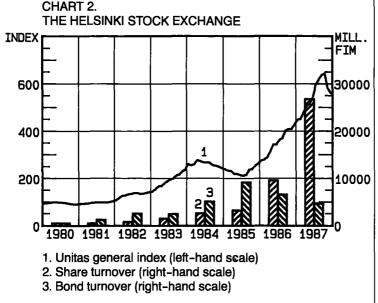
The increased activity in the stock market has been primarily evident in the growth of secondary market turnover (Chart 2) and to a lesser degree in the channelling of new risk capital to companies (Table 1).

TABLE 1. CAPITAL RAISED IN THE PRIMARY MARKET, MILLION FIM

	1983	1984	1985	1986	1987
Share issues (risk capital)	1 233	2 919	1 389	3 487	5 421
Bond and debenture					
issues of which:	11 614	13 912	20 373	22 674	22 335
Public issues	5 033	7 283	14 464	13 474	18 194
Total	12 847	16 831	21 762	26 161	27 756

While in the early 1980s, only every 30th share was traded on exchange the stock on average, last year the ratio was one in three. In addition to the increased activity of investors, trading on the stock exchange has been boosted by the industry; restructuring of mergers and takeovers have to an increasing extent been undertaken through the stock exchange.

Like the stock market, the bond market has also undergone rapid expansion. At the beginning of the 1980s, the bond market still consisted almost exclusively of taxfree bonds issued by the government and mortgage banks. The extension of the capital income deduction in personal income taxation in 1981 paved the way for the growth of



household investment in taxable bonds. One of the main reasons for the expansion of the bond market was interest rate regulation in the financial markets. Banks circumvented the regulation of average interest rates by taking up loans issued by their own finance companies and other companies. The funding of finance companies also focused on the long-term market because long-term interest rates were lower than rates on short-term market money.

In 1984 - 85, the expansion of the bond market was boosted by vigorous demand markka-denominated for bonds by foreign investors. In 1985, sales of bonds and debentures abroad soared to FIM 4-5 million in the period up to late June, at which point the Bank of Finland imposed a temporary ban on the sale of markka-denominated debentures to non-residents for monetary policy reasons.

In August 1986, the Bank of Finland abolished the regulation of banks' average lending rates. Deregulation was quickly reflected in the bond market as a decrease in private placement issues, and 1987 saw a drastic reduction, some 60 per cent, in the amount of such issues. Companies moved out of the private placements market to the commercial paper market. Long-term foreign currency loans of 5 years or more have partly replaced issues of markka-denominated debentures.

STOCK MARKET

In 1987, listed companies raised a record FIM 5.4 billion in new risk capital in the stock market (Table 1). Thanks to the favourable trend in equity values up to mid-October, share premiums accounted for about two-thirds of the new risk capital raised by listed companies. In addition, companies quoted on the OTC list raised new risk capital to the value of almost FIM 0.5 billion. New issue activity has continued brisk in the early months of this year. February saw the launching of the largest share issue ever by an industrial company on the stock exchange, almost immediately after a big bank issue, and further major issues were announced by listed companies in March.

After the October plunge in share market values, equity prices resumed an upward trend at the beginning of this year (Table 2). The rise in prices has been partly held in check by the large number of issues. At the beginning of the year, a number of new real estate companies were admitted to the Stock Exchange list.

Foreign investors' interest in Finnish shares slackened in 1987, and in the closing months of the year shares were resold to Finland. The value of shares and bonds resold to Finland in the course of the year amounted to over FIM 1 billion.

In 1987, the opportunities of Finns to invest in foreign securities were enlarged so that residents are now permitted to acquire publicly quoted foreign securities to a maximum value of FIM 50 000. However, Finns have so far shown little interest in portfolio investment abroad.

BOND MARKET

The volume of outstanding bonds issued in Finland amounted to more than FIM 80 billion at the end of 1987, an increase of 15 per cent on the previous year. New bond issues in 1987 totalled just over

TABLE 2. UNITAS SHARE INDEX (1975 = 100)

;	30.12.1986	16.10.1987	30.12.1987	30.3.1988
Banks	284.9	410.1	319.2	358.2
Insurance	914.7	1531.4	1334.0	1409.7
Trade and transport	566.6	904.9	800.3	930.5
Industry	456.4	748.3	609.4	688.6
Conglomerates	355.1	604.0	487.8	523.1
Forest	340.0	587.6	451.6	489.7
Metal and engineering	764.4	1194.2	1042.6	1145.8
Textile and clothing	466.6	681.5	551.4	811.7
Other	842.0	1292.4	1081.0	1367.0
General index	425.4	681.5	556.0	627.0

FIM 22 billion, the same as in 1986.

The central government was the only sector to increase its issuing activity. The domestic government bonds sold to the public have traditionally been tax-exempt but at the end of last year the central government also launched a taxable bond issue. The importance of taxable bonds in meeting the central government's financing needs is likely to arow in 1988. Public issues by the central government will total FIM 7.3 billion this year, of which taxable bonds will account for about one-third. The issue of taxable bonds is the central government's initial response to the anticipated amendment to the legislation governing tax reliefs on deposits and bonds.

Bond issues by companies financial institutions and decreased by over 10 per cent. to just under FIM 14 billion. Issues of traditional bonds fell by notably more than this, but bond issues with equity warrants were introduced as a new investment outlet by companies and financial institutions. New capital raised through issues of markka-denominated bonds with equity warrants amounted to FIM 2.8 billion in Finland: in addition. foreign currency-denominated bonds with equity warrants were sold to non-resident investors to the value of almost FIM 0.9 billion.

Turnover in bonds quoted on the Helsinki Stock Exchange fell by about one-third in 1987, accounting for 15 per cent of the total stock exchange turnover of FIM 31 billion (Chart 2). The main reason for the decrease was that almost all trading in large volumes shifted outside the stock exchange. In the second half of 1987, Reuters started to quote bond prices on its monitor, thereby creating the necessary conditions for a more broadly-based and efficient secondary market.

At the end of the year, the Bank of Finland started to publish 3- and 5-year long-term reference rates in addition to short-term reference rates on the basis of quotations by the five largest commercial banks. These rates can be used as reference rates for long-term market-based loans, such as corporate and housing loans.

Market rates declined in Finland throughout 1987 (see Chart 10 in the chart section). Short-term rates fell below longterm ones, thus resulting in the re-emergence of a 'normal' positively-sloped yield curve. This, in turn, restricted issues of long-term domestic bonds by the corporate sector, which instead resorted increasingly to borrowing in the short-term commercial paper market and abroad.

One sign of the underdeveloped state of the Finnish financial markets is the fact that there are hardly any instruments with an original maturity of 1 to 5 years in circulation. Under the current Act on Bonds, debentures are required to have a minimum maturity of 5 years. The central government has applied the same minimum maturity to its bonds. Commercial paper and certificates of deposit, now also issued with over one year's maturity, will partially fill the maturity gap of 1 to 5 years in the new issue market.

FUTURE PROSPECTS

The Finnish securities market will enter a new era when legislation governing the securities market comes into force. The aim is to pass the Act this year. So far stock exchange activities have been controlled mainly through self-regulation by the stock exchange. The advent of options and futures market trading, currently under preparation, will diversify activity in the Finnish capital market.

Capital raised by Finnish listed companies on domestic and foreign capital markets for financing their outlays on fixed investment and research and development is becoming increasingly important. Nevertheless, the capital market is still of only minor importance as a source of funds for the business sector as a whole.

The public sector is intensifying its activities in the money and capital markets. Issues of local authority paper can be expected to increase as local authorities replace bill financing with short-term funds obtained directly from the market. Issues of taxable bonds by the central government will serve to deepen the secondary market for bonds. Government bonds are risk-free and homogeneous investments, which are also well suited for wholesale dealing.

March 31, 1988

MONETARY AGGREGATES AND INDICES IN FINLAND

by **Kjell Peter Söderlund,** Head of Office Central Bank Policy Department Bank of Finland

BACKGROUND

he use of monetary aggregates as an intermediate target in monetary policy spread rapidly in the 1970s. This reflected attempts in policy planning to move away from discretionary measures to fixed rules. Apart from the difficulties experienced in the pursuit of acdemand management tive policies, this change was motivated by a desire to find fixed points for policy after the collapse of the Bretton Woods system of fixed exchange rates.

The United States was the first country to adopt monetary aggregates when, in 1970, it started to set target growth rates for narrowly defined money. Central banks in as many as 12 OECD countries employed some kind of monetary aggregate for targeting purposes at one time or another in the 1970s.1 Growth targets were set for either narrow money (currency plus sight deposits) or for broader measures of the money supply (narrow money plus time deposits chosen according to different criteria).

The choice of a suitable monetary aggregate to be targeted or monitored is ultimately a pragmatic, empirical question, though it can also be approached analytically by examining the properties of different types of accounts. The use of a monetary aggregate is justified particularly if the velocity of money is stable. Consequently, efforts have focussed on finding an aggregate which also possesses this property. This can be done in two ways: by applying causality tests or by estimating demandfor-money functions. Causality tests involve searching for an aggregate which best explains the ultimate target, frequently variations in nominal national income. In the other approach, the aim is to find a stable demand-formoney function in which the ultimate target variable appears as one of the determinants.

The money supply and its credit counterparts are linked together through the consolidated balance sheet of the banking system. Therefore it is not surprising that a credit aggregate can be used equally well as a monetary aggregate for targeting purposes. Though credit aggregates have not been employed as widely as monetary aggregates, they have nevertheless been used as an intermediate target in a number of OECD countries. Underlying the choice of a credit aggregate is the monetary approach to the balance of payments, which assigns an important role to domestic credit. Unlike money, "domestic" credit may be exogenous even under a fixed exchange rate system. However, even in the case of domestic credit targeting, the effects of monetary policy are transmitted to domestic monetary conditions primarily through the influence, if any, on the money stock.

FINNISH MONETARY POLICY AND MONETARY AGGREGATES

In contrast to many other OECD countries, Finland has never published specific growth targets for monetary aggregates, as the fixed exchange rate has served as an intermediate target. Certain credit aggregates have, however, gained a foothold in the formulation of central bank policy and have long been monitored by the Bank of Finland. But no precise growth targets or ceilings have been set for these either.

The monetary policy pursued by the Bank of Finland in the 1960s' and 1970s' can be broadly characterized as follows: monetary policy was directed primarily towards maintaining the country's external liquidity and was conducted in terms of the central bank's balance sheet framework. In this framework, success in controlling net domestic assets automatically implies control over net external assets.

This variant of the monetary approach to the balance-ofpayments analysis began to take shape in Finland in the 1960s but it was not relied on extensively until the mid-1970s. Exchange control and quantitative rationing of the banks' central bank debt were key elements in the Bank of Finland's aggregative financial framework.² It was long the accepted view that if, in addition to its net domestic assets, the central bank succeeded in controlling the country's capital movements, then it would also be able to control developments in the current account. This was felt to be very important because of the traditionally

¹ See, e.g., BINGHAM, G. (1985), Banking and Monetary Policy, OECD, Paris.

² This framework is presented, e.g., in AIRIKKALA, R. & PAULI, R., "Monetary Targetry in Finland", in J.E. Wadsworth & F.L. de Juvigny (eds) (1979); New Approaches in Monetary Policy, Alphen an den Rijn, pp. 89-95.

high priority attached to the external balance among the objectives of the Bank of Finland.

The kind of analytical framework outlined above, which completely ignores the significance of the money supply, no longer serves as a basis for monetary policy to the same extent as before owing to the liberalization of capital movements and the introduction of new monetary policy instruments. However, this has not meant that monetary agareaates have assumed a greater role in policy planning or that they have been employed as an intermediate target; the fixed exchange rate regime and relative freedom of capital movements make the money supply endogenous to a large degree. Nevertheless, monetary aggregates do contain information about the liquidity position of the private sector and the impact of monetary policy on the banking system.

MONETARY AGGREGATES IN FINLAND

Although it might be possible to define money at some

theoretical level, the construction of an unambiguous empirical counterpart to money has proved to be a difficult task. For example, it has to be decided where to draw the line between monetary and nonmonetary assets. It also has to be decided how to take into account the disappearance of existing types of deposits from the market and the introduction of new ones, and so on. Perhaps the most widely discussed reason in economic literature for the emergence of new instruments is the phenomenon known as Goodhart's law. This states that any attempt to limit the growth of some monetary aggregate leads to the appearance of new types of deposits which are not included in the measure of the money supply being targeted. This explanation hardly applies in the case of Finland, but it neverthe less remains true that a great many changes have occurred in the menu and distribution of deposits when viewed over a long period.

In 1948, at the beginning of the period covered in this article, the only accounts available to investors were cheque accounts, postal giro accounts and the almost identical "ordinary deposit" and "savings" accounts. The most important types of deposits to have later emerged in the market, but which subsequently disappeared, are various kinds of indexed deposits; nowadays these are prohibited by law.

Most deposits in Finland share the characteristic that they have typically borne rates of interest linked to the Bank of Finland's base rate (formerly the discount rate). Changes in the base rate have tended to be small and infrequent. Since, moreover, the tax exemption of deposits in effect precludes competition over deposits between the banks, the situation was for long unequivocal and poor in alternatives from the point of view of the investor. The setting on the deposits side was linked to the fact that lending rates were for long regulated by the authorities.

In fact, the system of administratively controlled interest rates resisted the pressures against it for a surprisingly long time. It was not until the beginning of the 1980s that channels for the in-

TABLE 1. ALTERNATIVE TYPES OF MARKKA DEPOSIT ACCOUNTS AS OF DECEMBER 31, 19871

Type of account	Rate of interest %	Intra-term withdrawal facility, FIM/month	Term of deposit, months	Cheque facility	Passbook	Debit card	Negotiable certificate of deposit	Giro facility	Tax treatment
Cheque account ²	0.50	unlimited	sight	yes	no	yes	no	yes	taxable
Postal giro account ²	0.50	unlimited	sight	yes	no	yes	no	yes	taxable
Deposit account with									
chequeing facility ²	2.75	25 000	6	limited	no	yes	no	yes	taxfree
Ordinary deposit account	2.75	15 000	6	no	optional	yes	no	yes	taxfree
Savings account	2.75	15 000	6	no	compulsory	yes	no	yes	taxfree
Term deposits, 6 months	4.00	none	6	no	no	no	yes	no	taxfree
Term deposits, 12 months	5.75	none	12	no	no	no	yes	no	taxfree
Term deposits, 24 months	7.00	none	24	no	no	no	yes	no	taxfree
Corporation deposits ³ Investment accounts.	<8.50	flexible	flexible	no	no	no	no	no	taxable
company accounts ³	<10.50	flexible	flexible	no	no	no ⁴	no	no ⁴	taxable

¹In 1987, supply on the deposits side diversified with the introduction of new types of corporate and investment accounts outside the banks' interest rate cartel. These — often bank-specific deposits — are included here in the item investment and company accounts.

²Interest paid on the lowest balance of the month. The interest paid may in some cases diverge substantially from 0.5 per cent.

³Effective interest rate dependent on the maturity of the deposit. Accordingly, the interest rates shown here were the highest applied.

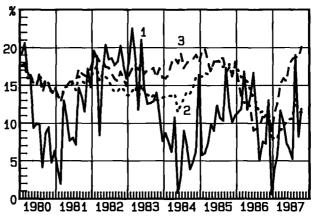
3 4"Yes" in some retail accounts

termediation of finance at market-related terms sprang up alongside regulated financial intermediation. At first, this activity took place outside bank balance sheets but was subsequently incorporated in bank balance sheets with the relaxation and eventual abolition of the average lending rate controls.

Towards the end of the 1970s, a sharp increase in corporate liquidity put many firms in a position where they were able to make banks compete for their liquid funds. Within a relatively short space of time, at least part of low-interest sight deposits were converted into so-called unregulated deposits bearing high rates of interest.3 Gradually the unregulated money market acquired more organized forms; certificates of deposit were introduced and today the short-term money market seems to function fairly efficiently.

An additional problem is created by the high return on unregulated deposits: can an asset yielding a higher return than non-monetary assets such as bonds any longer be regarded as money? Or, in other words, do CDs and related instruments provide liquidity services comparable to money if a high explicit interest return is required from them? It is in fact possible to think of unregulated deposits as negative bank credit; that is to say, it is mopped-up liquidity appearing (with a minus sign) on the opposite side to money in the banks' consolidated balance sheet.

A clearer picture of the different types of markka-denominated accounts available to the public at the end of 1987 and of their respective properties can be obtained from Table 1. CHART 1. BANK OF FINLAND BULLETIN MONETARY AGGRE-GATES



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

1. M1 (narrow money)

2. M1 + quasi-money (broad money)

3. M1 + quasi-money + unregulated deposits

Official aggregates

Official statistics published on the money supply in Finland comprise the series on the public's holdings of M1 and M1+Quasi-Money appearing in this Bulletin and the IMF's International Financial Statistics. In these statistics the public refers to all domestic economic agents except the state, central bank and deposit money banks. Narrow money (M1) is defined to include currency and sight deposits (funds in cheque accounts and postal giro accounts) held by the Quasi-Money compublic. prises all time deposits held by the public.

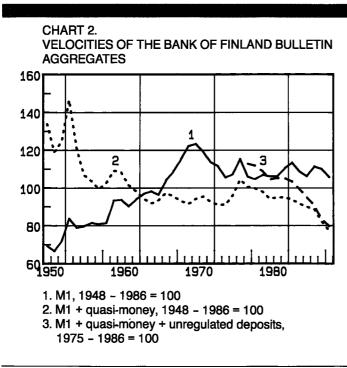
The monetary aggregates include deposits in all the different categories of banks because the savings banks, the cooperative banks and Postipankki have traditionally accepted deposits from the public at the same terms applied by the commercial banks. In addition, the aggregates include deposits — of minor magnitude — made by the public with the Bank of Finland. The aggregates also include the relatively small amount of deposits held by the public in the savings funds of cooperative retail societies. Finally, it should be noted that the aggregates include domestic foreign currency deposits.

The emergence of unregulated deposits did not per se lead to any changes in the published aggregates but a broader measure of money including the banks' funding at market terms has also been used as background information in analyzing financial developments.

The problems of the choice of a monetary aggregate (in connection with the planning and monitoring of monetary policy) are well illustrated by the behaviour of the three aggregates discussed so far in the 1980s. Lacking clear-cut selection criteria — causality tests have been inconclusive in Finland and the demand for money has not as a rule proved to be very stable — various versions of the monetary aggregates have been employed

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³ For the sake of simplicity, the term "unregulated deposits" is used, although most of this part of the banks' funding has been made in other forms, including promissory notes and, nowadays, CDs.



to provide as comprehensive a picture as possible of financial market developments (Chart 1).

The picture is perhaps less confused if developments in the velocity of money are examined over the long term.⁴ Even then, however, narrow and broad money show clearly differing trends (Chart 2). As might be expected, the behaviour is the more stable the broader the concept applied. Simple-sum aggregates do not, however, tell us anything about changes in liquidity caused by reallocation of funds within the aggregate.

Alternative aggregates

However, empirical research in Finland on the demand-formoney has focussed more on the components of (mainly broad) monetary aggregates than on alternatives for official monitoring. Three questions have been addressed: are there grounds for examining some kind of liquidity or potential liquidity concept which, in addition to conventional money, includes unutilized overdraft facilities? Should part of Quasi-Money be defined as lying outside money? How should foreign currency deposits be treated?

As regards the first question, it can be noted that "potential" money has been analyzed in a few studies but that this has not been a burning issue during the period under review. Howgrowing ever. with the prevalence of various kinds of credit and debit cards, the boundary between money and credit is becoming more blurred, thus making the question of "potential" money increasingly topical.

The alternative monetary aggregates to be presented below were constructed for analytical purposes and, unlike the official aggregates, they are limited to domestic currency deposits. This mainly reflects the fact that, with financial integration, it is increasingly only the domestic currency part of the money supply which is controllable from the point of view of the conduct of monetary policy by the central bank. From a technical of view. point estimating the returns on domestic bank deposits denominated in different currencies proved to be difficult on basis of the existing the statistical data. Additional problems, impossible to solve. would have arisen in trying to collect data on foreign currency deposits held in foreign banks.

Deposits with the Bank of Finland were also excluded from the official aggregates, since they can be regarded as "frozen funds" and do not serve any real role in the economy as a source of liquidity.

Several alternative aggregates of intermediate form were constructed between the markka measures of narrow money (M1FIM) and broad money (M3FIM). They were constructed by moving across the liquidity spectrum from the most liquid measure, narrow money (the return on which is zero or very small), towards the highest-vielding term deposits. Thus, by assumption or definition, we move beyond the domain of money on the liquidity spectrum when we come up first against the "nonmonetary" asset. This can be considered to be government bonds, which, though comparable to deposits in some are usually respects. not regarded as money.

Applying this method leads to the exclusion of unregulated deposits from the monetary aggregates in the period examined; the return on these exceeded the vield on government bonds, expressed both as the effective yield and the rate at issue, throughout the period.5 Thus, during this period, holders of unregulated

⁴ The period covered in this article has been determined by the availability of reliable statistical data. Most of the data used in this article were constructed for a demand-formoney study to be published elsewhere.

⁵ The problems of calculating yields on government bonds are not explained here. Suffice it to say that the estimated yields could well be unreliable in the first part of the period up to 1967.

deposits were not apparently provided with liquidity services for which banks would have charged an interest rate margin below the prevailing capital market yield.

In moving across the liquidity spectrum, the following markka-denominated simplesum aggregates were constructed in addition to M1FIM:

M1AFIM = M1FIM + depositaccounts with chequeing facilities⁶

M2FIM = M1AFIM + savings and ordinary deposit accounts

M2AFIM = M2FIM + term(and other similar) deposits

M3FIM = M2AFIM + indexed deposits

The analysis is still aggregative in so far that the changes that have occurred within the category of term deposits do not show up at all. Nothing can be said about substitution between different types of term deposits on the basis of these aggregates, although in fact major changes have taken place during the period 1948—86 (Table 2).

The movements in the broad aggregate M3FIM are rather similar to those in M1+Quasi-Money in Chart 1 and give the impression that the growth of the money supply has been very rapid in recent years, especially in relation to annual real economic growth of 3 per cent on average. However, the fastest growing components of broad money in recent years have been (longterm) term deposits, whose link with the real economy is not as direct as that of the more liquid forms of deposits.

As was pointed out at the beginning of this article, the major problem with simplesum aggregates is the fact that, over time, new deposit products are introduced and gain

TABLE 2. STRUCTURE OF MARKKA LIQUIDITY IN SELECTED YEARS IN 1948 — 1986: PERCENTAGE SHARES OF TOTAL MONETARY ASSETS

	1948	1950	1960	1970	1980	1986
Currency held by the						
public	19.3	16.9	9.8	6.6	5.4	3.4
Cheque and postal						
giro accounts	20.7	20.0	11.9	10.8	12.5	10.5
Deposit accounts with						
chequeing facility	—	_	-	2.8	5.2	5.6
Savings and deposit			— · · ·			
accounts	60.0	63.1	71.1	53.7	49.0	33.6
Term deposit accounts:						
1-6 months	—	_		0.8	1.4	0.7
12 months		—	5.2	7.3	3.9	3.7
24 months	—	_	—	18.0	18.3	27.3
36 months		—	_	—	2.7	—
Indexed accounts	—	_	2.0	_	—	
Corporation deposits	—		—		_	3.9
Investment accounts		—	—	—	_	1.9
Unregulated deposits					1.6	9.4
TOTAL, %	100.0	100.0	100.0	100.0	100.0	100.0

popularity as existing ones disappear (Table 2).

MONETARY INDICES All the monetary aggregates presented so far have been derived by adding together different types of deposits with weights of unity. The dividing line between the assets included in and those excluded from a particular definition of money has simply been drawn at a different point on the liquidity spectrum in each case. In practice this means that, for instance, highly liquid cheque accounts have the same position in broad money as 36month term deposit accounts, even though the former can be assumed to offer more liquidity services than the latter.

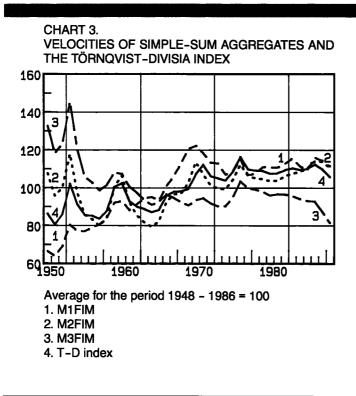
One way to solve the problem of changes in the structure of the money supply is to consider the interest foregone as a result of holding different kinds of deposits (Table 3). The procedure can be compared to the construction of consumption volume indices, in which the changes in quantities of various items used are weighted by budget shares. As a way of measuring the cost of liquidity

TABLE 3. FOREGONE INTEREST INCOME DUE TO LIQUIDITY HOLDING IN SELECTED YEARS IN 1948 — 1986: PERCENTAGE SHARES OF TOTAL COST OF LIQUIDITY

	1948	1950	1960	1970	1980	1986
Currency held by the						
public	37.5	38.0	23.6	13.0	11.0	7.6
Cheque and postal						
giro accounts	40.0	44.8	28.7	21.4	25.6	23.2
Deposit accounts with chequeing facility				3.4	6.8	9.0
Savings and deposit	_	_	_	3.4	0.0	9.0
accounts	22.5	17.2	43.0	49.6	50.0	46.8
Term deposit accounts:	22.0		10.0	1010	00.0	10.0
1-6 months	_			0.6	1.0	0.7
12 months	_	—	2.1	4.9	1.8	1.1
24 months		—	_	7.1	3.7	4.0
36 months	—	_	—	—	0.1	—
Indexed accounts		—	2.6	_	_	
Corporation deposits	—	-	—	—		6.2
Investment accounts						1.4
TOTAL, %	100.0	100.0	100.0	100.0	100.0	100.0

11

⁶ These are similar to savings accounts but have chequeing facilities. Interest is paid according to the lowest balance during the month.



we consider a situation where, instead of holding funds in the form of deposits, many economic agents invest them in the nearest substitute to broad money, i.e. mediumterm government bonds.⁷

It can be assumed that holding deposits is a way of acquiring liquidity services. We can then derive the equilibrium condition for an economic agent from the theory of demand. According to this, in equilibrium. an economic agent distributes his funds among different deposits so that the ratio of the liquidity services generated by a marginal placement in a particular account to the "price" is the same for each account, where the price can be regarded as being the interest foregone. It also follows that the interest margin foregone describes marginal li-

onomic by applying index number and funds aggregation theory to derive sits so monetary indices similar to dity ser- monetary aggregates. Rather narginal than equally weighting

than equally weighting deposits possessing different properties (providing different liquidity services), the weights assigned are based on the "budget shares" of different deposits in the interest foregone by liquidity holders.

quidity regardless of the way in

which the interest rate terms are

associated with the objective

characteristics of various types

and 3 reveals differences in the

distributions, which can be assumed to reflect differences

in the quantity of liquidity ser-

vices provided by different

types of deposits. This informa-

tion can be utilized in the construction of monetary indices

A comparison of Tables 2

of bank accounts.

In fact, the computing of indices involved calculating a weighted average of changes in the deposit components for each month. The weights used were the monthly relative shares of each type of deposit in total interest foregone.⁸ Technical questions related to the construction of the indices are not discussed here. It can be noted, however, that both the Törnqvist-Divisia index and the Vartia index were used as alternative approximations.⁹

For the purpose of comthe indices were parison. calculated using both the effective yield and the rate at issue of government bonds as the benchmark rate. The indices were applied only to the broadest markka aggregate (M3FIM), although the same procedure, mutatis mutandis, could be used for the narrow aggregates as well. Thus four alternative monetary indices were obtained for the period 1949 — 1986. The indices do not differ very much from each other and here we present only one of them, a Törngvist-Divisia index in which the rate at issue of bonds serves as the benchmark rate.

Particularly striking is its stable velocity as compared to that of the simple-sum aggregates (Chart 3). According to the calculations, investors' preferences are such that the indices are located near M2FIM.

Another interesting comparison can be made between the interpretation of de-

⁷ Indexed bonds served as alternatives to indexed deposits. Taxable bonds were alternatives to the taxable accounts introduced towards the end of the period.

⁸ For a discussion of the method of calculating monetary indices and their applications, see e.g. the following articles: BARNETT, W.A., OFFENBACHER, E.K. & SPINDT, P.A. (1984), "The New Divisia Monetary Aggregates", Journal of Political Economy, Vol. 92 pp. 1049-1085 and ISHIDA, K. (1984), "Divisia Monetary Aggregates and Demand for Money: A Japanese Case", Bank of Japan, Monetary and Economic Studies, Vol. 2 pp. 49-80.

⁹ See TÖRNQVIST, L., (1936),"The Bank of Finland's Consumption Price Index," Bank of Finland Monthly Bulletin, No. 10 pp. 27-34 and VARTIA, Y.O. (1976), Relative Changes and Index Numbers, ETLA A4, Helsinki.

velopments in the 1980s provided by the monetary index and that provided by various types of simple-sum aggregates (Chart 4, Chart 1).

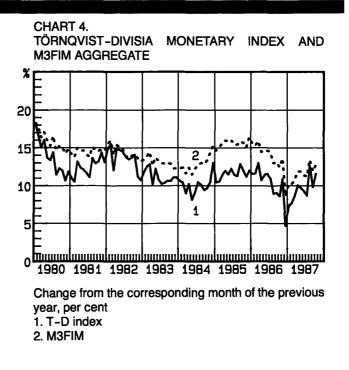
ASSESSMENT

The nature of a monetary index should be underlined. It is not a new kind of monetary aggregate. Rather, it is an estimate of developments in the flow of liquidity services which accrue to the holders of the money stock. As an index it provides a dimensionless measure of developments in the public's liquidity over time. Simple-sum aggregates have traditionally been used for this purpose, even if on much weaker grounds from an economic point of view. In principle, there is nothing to prevent monetary aggregates from being used as intermediate target in an monetary policy. Nevertheless, viewed internationally, monetary indices have so far played only a minor role in policy formulation.

Perhaps monetary indices are, after all, better suited to monitoring and the analysis of history. Among other things, they reveal that the velocity of the money supply has, in fact, been fairly stable in Finland during the postwar period. Similarly. monetary indices "dedramatize" the purported rapid growth in the money supply in recent years (Chart 4). This reflects the fact that term deposits, which have increased rapidly of late but have a low degree of liquidity, have a far smaller weight in the monetary index than in the simple-sum aggregates.

In this article, the construction of monetary indices has been dealt with in terms of opportunity costs. Another way to construct indices is to utilize information available on the velocity or turnover rate of different deposit categories (deposit-withdrawal statistics). This kind of index has not been computed in Finland.

Finally, some other points should be stressed. Though



monetary indices do not solve all the problems associated with monetary aggregates, they do solve many of them. In particular, the indices eliminate part of the velocity changes. On the other hand, the construction of indices gives rise to new technical problems, which are not touched upon here, however. The use of indices as intermediate targets in monetary policy does not seem appropriate at the present time. This is especially so since the formulation of central bank

policy in Finland is directed towards keeping the exchange rate stable by means of interest rates and not to securing the stable growth of a monetary aggregate. Nevertheless, monetary indices shed valuable light on monetary developments in a theoretically appealing way and are therefore also useful in monitoring financial markets in Finland.

March 31, 1988

MONETARY AND FOREIGN EXCHANGE POLICY MEASURES FROM APRIL 1987 TO MARCH 1988

1987

APRI

Call money market. The Bank of Finland lowers the call money credit rate from 11.4 to 11.2 per cent as from April 2 and further to 11.0 per cent as from April 29.

MAY

Interest rate policy. As from the beginning of May, the Bank of Finland reduces the restrictions on the use of money market rates as reference rates for bank loans. Besides the base rate, the banks may, without special approval, use some other Bank of Finland rate, the official money market rate used in market transactions or some derivative of these rates as reference rates for all lending except housing loans.

As from May 1, the Bank of Finland begins to publish daily 1, 2, 3, 6, and 12-month HELIBOR (Helsinki Interbank Offered Rate) rates, which the banks may henceforth use as reference rates in their lending. HELIBOR rates are the average bid rates for each category of certificate of deposit as quoted by the five largest banks each day at 1 p.m.

JUNE

Revisions to the Foreign Exchange Regulations. The Bank of Finland decides

on certain revisions to the Foreign Exchange Regulations that enter into

14 force on June 15, 1987.

With certain exceptions, it is allowed to make direct investments abroad without obtaining the advance permission of the Bank of Finland up to the value of FIM 30 million. It is, however, necessary to provide the authorized bank with the information required by the Bank of Finland.

In payments of suppliers' credits for imports, credit periods exceeding six months are allowed without the special permission of the Bank of Finland up to the maximum amount of FIM 100 000.

The handling of applications for permission in respect of recreational dwellings abroad is transferred to the authorized banks. The upper limit of FIM 600 000 permitted for a purchase is not amended in this context, and for purchases exceeding this amount, the Bank of Finland grants permission on a caseby-case basis.

Investments abroad in publicly quoted securities are allowed up to the maximum amount of FIM 50 000.

Details of other minor changes and revisions can be read in the Foreign Exchange Regulations.

JULY

Call money market. With the effect from July 1, 1987, the Bank of Finland supplements the conditions governing borrowing by commercial banks in the Bank of Finland's call money market by stipulating that the upper limit on the right of an individual bank to resort to call money credits is, in all cases, not less than FIM 10 million.

AUGUST

Revision of Foreign Exchange Regulations.

The Bank of Finland decides to extend the right of enterprises, previously granted only to manufacturing and shipping companies, to raise foreign loans with a maturity of at least five years for the financing of their operations. As from August 1, 1987, this right also applies to other companies and cooperative societies carrying on business activity, with the exception of financial and insurance institutions and housing and real estate companies.

Cash reserve requirement. The Bank of Finland raises the cash reserve requirement from 4.7 per cent to 4.9 per cent of the total stock of deposits in August.

OCTOBER

Amendments to Foreign Exchange Regulations.

The Bank of Finland decides to allow authorized banks to write and purchase markka options as from October 1, 1987. At the same time, the Bank of Finland grants companies and other residents the right to purchase such options. Banks had previously been allowed to write foreign currency options but not markka options. Markka options entitle but do not oblige the holder to purchase or sell foreign currency at an agreed markka rate within an agreed period.

Banks' central bank financing. With effect from October 1, 1987, savings and cooperative banks are allowed to deal in certificates of deposit with the Bank of Finland provided that they meet with the requirements set on trading.

As from October 1, 1987, the Bank of Finland enlarges to some extent the right of banks to use call money credit which is not subject to penalty interest.

Housing loans.

From October 16, 1987, the Bank of Finland ceases to issue precise guidelines to the banks concerning prior savings required for housing loans and other personal credits.

NOVEMBER

Interest rate policy. On November 13, 1987, the Parliamentary Supervisory Board decides on new interest rate powers for the Board of Management of the Bank of Finland in respect of both call money rates and money and capital market operations.

The call money rate powers remain unchanged so that the upper limit on call money rates is still the base rate plus 15.0 percentage points and the lower limit the base rate.

Under the new powers, for rates of interest longer than one day, the Board of Management may, at its discretion, intervene in the market to regulate movements within a range the lower limit of which is the base rate and the upper limit the base rate plus 5 percentage points. If, because of market forces, interest rates move beyond these limits, the Board of Management may only undertake such operations

that reduce the gap between market rates and these limits.

At the same time, the new powers are extended to include rates of interest longer than 6 months whereas previously they only concerned rates of interest up to 6 months.

1988

JANUARY

Interest rate policy. With effect from January 1, 1988, the Bank of Finland commences to calculate and publish 3- and 5-year long-term market rates on a monthly basis. Banks may use these rates as reference rates in their lending (incl. housing loans). The longterm reference rates are based on market rates for taxable, fixed-rate bonds. Like HELIBOR rates, they are calculated on the basis of the offered rates quoted by the five largest banks. Housing loans. With effect from the beginning of 1988, banks may, in addition to the base rate, use the 3- and 5-year market rates calculated and published by the Bank of Finland as reference rates for their new longterm housing loans. Cash reserve requirement. The Bank of Finland raises

the cash reserve requirement from 4.9 per cent to 5.3 per cent of the cash reserve base in January.

Special financing arrangements. The Bank of Finland decides to amend the terms applied to the financing of domestic suppliers' deliveries (KTR credits) as from the beginning of 1988. According to the new terms, the rate of interest on KTR credits is 21/2 percentage points over the Bank of Finland's base rate while the Bank of Finland's share in the financing of the purchase price of a delivery is 30 per cent.

The Bank of Finland decides to abolish the financing arrangements for new-export credits and for short-term export credits with effect from the beginning of 1989. The present terms are to be applied to these financing arrangements in 1988.

FEBRUARY

Cash reserve requirement. The Bank of Finland raises the cash reserve requirement from 5.3 per cent to 5.7 per cent of the cash reserve base in February.

MARCH

Refinancing of crop failure loans. With effect from March 1, 1988, the Bank of Finland starts granting deposit banks one-year loans for refinancing their crop failure loans. The rate of interest on the refinancing loans, which is tied to the base rate, is 8 per cent. These loans can be granted up to 80 per cent of the total amount of the crop failure loans granted by each bank. **Cash reserve requirement.**

The Bank of Finland raises the cash reserve requirement from 5.7 per cent to 5.9 per cent of the cash reserve base in March.

FINLAND IN BRIEF

LAND, CLIMATE AND POPULATION

Finland covers an area of more than 338 000 square kilometres (1986). 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 the Soviet Union in the east and has a coastline bordered by the Baltic Sea in the south and west. Agricultural land accounts for 8 % of the total area, forest and other wooded land for 69 % and inland waters for 10 %. Located between latitudes 60° and 70° north, Finland has warm summers and cold winters. Helsinki on the south coast has an average maximum temperature of 22° C (72° F) in July and -4º C (25º F) in February.

Finland has a population of 4 926 000 (Dec. 31, 1986) and an average population density of 16 per square kilometre. The largest towns are Helsinki (Helsingfors), the capital, with 488 000 inhabitants, Tampere (Tammerfors) 170 000 and Turku (Åbo) 161 000.

There are two official languages: 93.6% of the population speaks Finnish as its mother tongue and 6.1% 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 December 6, 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, March 1, 1988 to March 1, 1994, is Dr. Mauno Koivisto.

Parliament, comprising 200 members, is elected by universal suffrage for a period of four years. Following the parliamentary elections of 1987, the seats of the various parties in Parliament are distributed as follows: Social

16 Democratic Party 56; National Coalition

Party 53; Centre Party 40; People's Democratic League 16; Swedish People's Party 13; Rural Party 9; Christian League 5; the Greens 4; and the Democratic Alternative 4.

Of the 18 ministerial posts in the present government appointed in May 1987, 8 are held by Social Democrats, 7 by the National Coalition Party, 2 by the Swedish People's Party and 1 by the Rural Party. The Prime Minister is Mr. Harri Holkeri of the National Coalition Party.

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

INTERNATIONAL RELATIONS

Finland pursues a policy of neutrality in foreign affairs, and enjoys friendly relations with all European countries and countries elsewhere. Finland's development cooperation programmes channel assistance via international organizations and, bilaterally, to a number of African, Asian and Latin American countries.

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 and the AfDB in 1982.

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. 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.

THE ECONOMY

Output and employment. The Finnish economy is essentially based on private enterprise, with roughly 85 % of manufacturing output and 90% of banking services produced by private companies. Of the gross domestic product of FIM 316 billion in basic values in 1986, 4% was generated in agriculture and fishing, 3% in forestry, 27% in industry, 8% in construction, 12% in trade, restaurants and hotels, 8% in finance and insurance, 16% in other private services and 17% by producers of government services. Of total employment, 11% was engaged in primary production, 32% in industry and construction and 57% in services.

In 1986, expenditure on the gross domestic product in purchasers' values amounted to FIM 357 billion and was distributed as follows: net exports 1 % (exports 27 %, imports -26 %), gross fixed capital formation 23 %, private consumption 54% and government consumption 21%. Finland's gross tax ratio (gross taxes in relation to GDP) was 37 % and the net tax ratio (net taxes in relation to GDP) 23 %, which is about the average for OECD countries.

Average annual (compounded) growth of real GDP was 4.1 % in the period 1950-60, 5.0 % in 1960-70, 3.4 % in 1970-80, 2.9 % in 1980-86 and 3.9 % in 1950-86. Finland's GDP per capita in 1986 was USD 14350; this put Finland in ninth place among the 24 member countries of the OECD, preceded by Switzerland, the United States, Japan, the Federal Republic of Germany and the other Nordic countries.

Foreign trade. Over 80 % of Finland's trade is carried on with market economies, the most important among which are Sweden, the Federal Republic of Germany, the United Kingdom, the United States, France and Japan. Bilateral trade with the Soviet Union, which is conducted at world market prices, dominates Finland's trade with socialist countries. Finland imports mainly oil and other energy products from the Soviet Union, while her exports consist primarily of manufactured goods.

In 1986, the share of metal and engineering products in total merchandise exports was 39%, the share of forest industry products 38% and the share of other goods 23%. Raw materials and intermediate goods (incl. crude oil) accounted for 59% of merchandise imports, fuels for 5 %, investment goods for 17% and consumption goods for 19%.

Forest resources. Finland has fairly abundant forest resources, but only limited amounts of other raw materials. The growing stock comprises 1660 million cubic metres, of which 45% is pine, 37% spruce and 18%

broad-leaved species, chiefly birch. The annual growth increment totals 68 million cubic metres and the total drain calculated on the basis of roundwood consumption was 52 million cubic metres in 1985.

Energy. In 1986, gross consumption of primary energy amounted to 28 Mtoe, of which industry accounted for 47 %, heating for 22 %, transportation for 13 % and other purposes for 18 %. The sources of primary energy in 1986 were as follows: oil 33 %, coal 13 %, nuclear power 16 %, hydro-electric power, peat and other indigenous sources 29 %, others 9 %. Compared internationally (1985), Finland's consumption of 5.5 toe per capita was 1.8 times higher than the average in European OECD countries. The self-sufficiency rate (OECD definition) in Finland was 42 %, as compared with 62 % in western Europe on average.

FINANCE AND BANKING

Currency. Since 1865 Finland has had its own monetary system. The currency unit is the markka (plural: markkaa), abbreviation FIM, which is divided into 100 penniä (singular: penni). Since Nov. 1, 1977 the external value of the markka has been officially expressed in terms of a trade-weighted currency index. As from Jan. 1, 1984 only convertible currencies have been included in the index, which may fluctuate within a range of 4.5 percentage points. The range is defined by fluctuation limits which are set by the Government at the proposal of the Bank of Finland. The present fluctuations limits are 101.3 and 106.0 (1982 = 100), where the lower limit means the highest permissible value for the markka and the upper limit the lowest permissible value.

International payments. The use of the markka in foreign trade and as a eurocurrency has increased, but most international payments are effected in other currencies. Finland adopted Article VIII status at the International Monetary Fund in 1979. There are no restrictions concerning payments for merchandise or invisibles, and shortterm trade finance may be acquired whenever exporters and importers see fit. Exchange controls apply mainly to financial transactions.

Permission for outward and inward direct investment is granted liberally and foreign investors may also buy shares of listed Finnish companies; however, foreign investment in markkadenominated bonds is normally prohibited at present. Finnish companies may freely raise foreign credits of at least five years' duration for their own use. Finnish residents may invest in foreign securities and real estate up to specified amounts.

Transactions with the Soviet Union, the German Democratic Republic and Bulgaria are carried out on a bilateral basis and payments are effected through clearing accounts. The necessary licencing of trade for maintaining balance in bilateral trade is carried out by the Export and Import Permits Office; the scope for suppliers' credits is also limited.

The Central Bank. The Bank of Finland (Suomen Pankki - Finlands Bank), founded in 1811, operates under the supervision of the Parliamentary Supervisory Board, the nine members of which are entrusted with overall supervision of the Bank and certain specific decisions such as fixing the Bank's base rate and the limits for other rates. The Governor and a maximum of five other Members of the Board of Management are appointed by the President of the Republic. The Board manages all affairs not expressly entrusted to the Parliamentary Supervisory Board, including the terms of banks' central bank finance, open market operations, intervention in the foreign exchange market, determination of the external value of the currency within the fluctuation limits, direct lending and permits for international capital transactions. 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 12 branch offices in other towns.

Other banks (Dec. 31, 1986). Finland has four major groups of deposit banks with a total of more than 3 500 offices. There are two big commercial banks with national branch networks and eight smaller ones, four of which are foreign-owned. The commercial banks have a total of 29 foreign branches, subsidiaries and associate banks and 30 representative offices abroad. There are 241 savings banks and 370 cooperative banks with their own extensive branch networks. The government-owned Postipankki has 50 branches and also offers basic services in post offices

Financial markets. Of the total stock of FIM 431 billion in outstanding domestic credit at the end of 1986, 56 % was provided by deposit banks, 4 % by mortgage banks, 18 % by insurance companies, 10% by other credit institutions and 12 % by the state, local authorities and social security funds. There are no quantitative restrictions or interest rate limitations on lending. Regulation of bank lending rates was progressively relaxed earlier in the 1980s and finally abolished in 1986.

In the money market, approximately 60 % of the instruments, which totalled approximately FIM 56 billion at end-September 1987, were negotiable instruments such as bank certificates of deposit, commercial paper, Treasury notes and local authority paper. Funds intermediated through bank trust departments and non-negotiable bank debt instruments make up the bulk of non-negotiable instruments. In its open market operations, the Bank of Finland deals in bank certificates of deposit and also issues its own certificates of deposit. There are 52 listed companies on the Helsinki Stock Exchange, with a market capitalization value of FIM 56 billion (at end-1986). Three foreign companies are also quoted. Domestic bonds and debentures in circulation at end-1986 totalled FIM 71 billion; government bonds made up 34% of the total. Turnover on the Stock Exchange in 1986 amounted to FIM 16 billion; the share of shares and subscription rights in the total was approximately 60%.

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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

		87		1	988	
	March 31	Dec. 31	March 8	March 15	March 23	March 31
ASSETS						
Gold and foreign currency claims	19875	28739 2128	30604	31 470 2 ⊺28	31 525	30949 2128
Gold Special drawing rights	2081 962	2128	2128 1019	1014	2128 1016	1015
Special drawing rights IMF reserve tranche	770	793	791	777	780	779
Convertible currencies	13510	23634	24226	25117	25062	24703
Tied currencies	2 5 5 2	1 284	2440	2 4 3 3	2 539	2 3 2 3
Other foreign claims	4 567	4 3 5 7	4331	4344	4348	4 3 4 0
Markka subscription to Finland's IMF quota	2 585	2 4 2 7	2422	2433	2 4 3 3	2433
Term credit	1982	1930	1 909	1911	1914	1 907
laims on financial institutions	8 491	5147	5050	5028	4997	6384
Call money credits	179	0	38	11.8	_	634
Certificates of deposit	3572 2177	2730	2608	2517	2 569	2 5 2 1
Till-money credits	21//	2730	2000	2317	2 309	811
Financing of crop failure loans Bonds	2153	2140	2139	2125	2125	2124
Other claims on financial institutions	410	277	266	269	269	294
laims on the public soctor	959	977	982	984	985	986
Bonds	9	4	0	0	0	0
Total coinage	945	967	975	977	978	978
Other claims on the public sector	5	6	7	7	7	7
laims on corporations	4 3 2 7	3678	3664	3639	3617	3 5 7 0
Financing of exports	1 325	868	820	813	797	764
Financing of domestic deliveries	2748	2 568	2606	2 590	2586	2558
Bonds: KTR credits		13	13 44	13 41	13 41	28 41
Bonds: Other	195	46 182	181	181	180	180
Other claims on corporations Ther assets	152	592	103	102	103	107
Accrued items	152	487	100	102	105	
Other assets	152	105	103	102	103	107
	otal 38371	43 489	44733	45 567	45574	46 336
.iABILITIE\$						
oreign currency liabilities	57	135	94	102	102	100
Convertible currencies	42	63	19	25	23	20
Tied currencies	15	72	75	77	78	80
)ther foreign Habilities	3 399 2 585	3226 2427	3215 2422	3 222 2 433	3 226 2 433	3 225 2 433
IMF markka accounts	2 383 814	799	792	789	792	792
Allocations of special drawing rights lotes and coin in circulation	8325	9990	9366	9345	9368	9720
Notes	7524	9117	8 509	8 486	8 509	8 8 50
Coin	801	873	857	858	859	870
ertificates of deposit	4000	4970	6450	7320	7480	7285
iobilities to financial institutions	10465	11766	12901	12861	12566	13326
Call money deposits	548	757	762	720	402	36
Cash reserve deposits	9 597	10941	12084	12089	12089	13211
Capital import deposits	236					
Other liabilities to financial institutions	84	67	56	52	74 901	80 901
iabilities to the public sector	1	901	901	901	•	-
Cheque accounts Counter ouclieral denosite	1	900	900	900	900	0 900
Counter-cyclical deposits Capital import deposits		,00	/00	/00	/00	/00
Other liabilities to the public sector	0	0	0	0	0	0
iabilities to corporations	4770	5009	5064	5059	5013	4995
Deposits for investment and ship purchase	4 4 3 7	4799	4817	4811	4769	4731
Capital import deposits	331	209	241	241	241	260
Other liabilities to corporations	2	2	7	7	3	4
ther liabilities	23	757	35	27	55	31
Accrued items		733				
Other liabilities	23	24	35	27	55	31
aluation account and resorves	1 402	1247	1218	1241	1 375	1 265 400
ITRA's capital	400 5 529	400 5088	400 5088	400 5088	400 5088	5088
upital accounts Primany capital	5000	5000	5000	5000	5000	5000
Primary capital Reserve fund	529	529	88	88	88	88
Profit/loss for the accounting year	J27	_440				
romnoss for the accounting year			_	_	_	-
-	stal 38371	43 489	44733	45 567	45 574	46 336
T	otal 38371	40 407	44700	40.007	40074	40 330

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

End of					Foreign sec	lor				P	ublic soci	ler 🛛
peried	Gold	Special drawing rights	IMF reserve tranche	Convert- ible curren- cies, net	Convert- ible curren- cles, total (1+2+3+4)	Tied curren- cies, net	Foreign exchange reserves, total (5+6)	Other claims, net	Net claims (7+8)	Claims	Liabil- ities	Net liabil- ities (11–10)
	1	2	3	4	5	6	7	8	9	10	11	12
1983	1 383	226	751	5150	7510	550	8 060	-794	7266	2178	3000	822
1984	1732	936	859	15303	18830	-337	18493	-917	17576	1951	4277	2 3 2 6
1985	2081	931	775	18572	22359	-285	22074		21 225	1023	4 300	3277
1986	2081	983	793	6778	10635	3421	14056	838	13218	1 0 0 2	2001	999
1987	2128	899	793	23 57 1	27391	1212	28 603	1131	29734	977	901	-76
1987												
March	2081	962	770	13468	17281	2537	19818	1168	20986	959	1	-958
April	2081	961	769	16440	20251	2908	23159	1160	24319	960	1	-959
May	2081	967	767	19442	23257	3036	26293	1 165	27 458	959	1	-958
June	2081	969	787	19006	22843	3207	26 050	1167	27217	959	1	-958
July	2081	969	787	19991	23828	2899	26727	1173	27900	954	1	-953
Avg.	2081	973	789	19744	23 587	2041	25628	1164	26792	963	1	-962
Sopt.	2081	970	757	21 291	25099	1 428	26 527	1157	27684	965	0	-965
Oct.	2081	964	753	22712	26510	1 375	27885	1163	29048	968	0	-968
Nov.	2081	961	793	23 575	27410	1 067	28 477	1131	29 608	971	1	-970
Dec.	2128	899	793	23 57 1	27 391	1212	28 603	1131	29734	977	901	—76
1988												
Jan.	2128	879	768	24076	27851	2195	30 0 4 6	1125	31 171	979	901	—78
Feb.	2128	1107	792	24059	28086	2257	30 343	1123	31 466	982	90 1	-81
March	2128	1015	779	24683	28 605	2243	30848	1115	31963	986	901	-85

End of			Domestic	financial se	eter		Corporate sector				
period	Term claims on deposit banks	Call money claims on deposit banks, not	Cash reserve deposits of deposit banks	Till-money credits to deposit banks	Other lia- bilities to financial institu- tions, not	Not claims (13+14–15+ 16–17)	Claims in the form of special financing	Special deposits, net	Net claims (19—20)	Notos and coin in circu- lation	by the Bank
	13	14	15	16	17	18	19	20	21	22	23
1983		5175	5039	942	—1 998	3076	4 5 2 9	1 282	3247	6574	
1984		2802	8 6 9 6	1 563	-1618	-2713	4646	2614	2032	7442	
1985		4014	10222	1925	-1 386	-2897	4 5 2 5	4113	412	8072	
1986	2381	6687	9270	2 305	-2240	4343	4581	4757	-176	8668	
1987	-	-757	10941	2730	-2350	-6618	3 4 4 9	4782	—1 333	9990	4970
1987											
March	3 5 7 2		9 597	2177	-2243	-1974	4073	4516	-443	8 3 2 5	4000
April	2111	878	9734	2114	-2 287	-2344	3927	4 4 2 7	-500	8705	6703
May	1 690	-872	9975	2139	-2 290	-4728	3807	4222	-415	8865	7402
June	1217	90	10118	2370	-2488	-3953	3735	4704	-969	9010	7072
July	89	157	10435	2234	-2 486	-5469	3706	4806	-1100	9029	5709
Aug.	258	-717	10335	2439	-2 486	-5869	3608	4784	-1176	9012	4199
Sept.	_	-223	10853	2385	-2 446	-6245	3 567	4838	-1271	8952	4883
Oct.	_	-110	10984	2284	-2541	-6269	3601	4790	-1189	9069	6178
Nov.	_	-1 570	11024	2 5 3 8	-2584	-7472	3 561	4772	-1211	9219	5817
Dec.	-	-757	10941	2730	2 350	-6618	3 4 4 9	4782	-1 333	9 990	4970
1988											
Jan.	_	-1 295	11085	2 4 2 4	-2364	-7592	3462	4 799	-1 337	9 406	6085
Feb.	_	297	12084	2 596	-2346	-6845	3429	4799	-1 370	9388	7120
March	_	598	13211	2521	-3149	-6942	3 3 50	4774	-1 424	9720	7285

2. THE BANK OF FINLAND'S MONEY MARKET OPERATIONS AND THE FORWARD MARKET 2.1 THE BANK OF FINLAND'S MONEY MARKET OPERATIONS AND THE CALL MONEY MARKET, MILL FIM

During period	Purchases of certificates of depesit	Sales of cortificatos of deposit	Matured certificates of deposit, net	impact on liquidity (1–2–3)	Call money credits	Call money deposits	Total not change (4+5–6)
	1	2	3	4	5	6	7
1983					2659		3519
1984						1 606	-2373
1985					201	-1011	1212
1986					1 599	-1 074	2673
1987	1 263	23658	-17520	-4875	-6818	626	-12319
1987							
March	73	10		63	155	789	1 007
April	20	1103	_	-1084	897		163
May	50	2335	_	-2285	-1 076	674	-4035
June	800	2970		-1415	185	_777	-453
July	60	2 585		-930	120	53	
Avg.	260	1 380	-2835	1715	-224	650	841
Sopt.	_	2735	-1845		-61	-555	
Oct.	_	4240	-2900	-1 340	29		-1 227
Nov.	_	3 390	-3785	395	6	1 466	-1 065
Dec.	-	2910		895	—55	-868	1 708
1988							
Jan.	160	3915	-2640	1115	2	540	1 653
Feb.	_	3955	-2920	-1035	295	-1297	557
March	_	2 5 50	-2385	-165	337	36	136

2.2 FORWARD EXCHANGE MARKET, MILL FIM

Enf of	Banks' forward positions with											
peried	Domostic o	ompanios	·	Foroign banks, not	Bank of Finland, not	Total, net						
	Forward exchange bought by banks	Forward exchange sold by banks	Net (1-2)	Danks, nør	et risking, net	(3+4+5)						
	1	2	3	4	5	6						
1983	7541	1 227	6314	-1 688	2 290	2 3 3 5						
1984	22921	1 394	21 527	2002	-19962	3 566						
1985	16982	1 733	15249	708	-9005	6951						
1986	11 446	1319	10127	-2461	-92	7574						
1987	21 671	1158	20513	-233	-1 287	18994						
1987												
leb.	14389	1 385	13003	-1 204	26	11825						
March	15908	1 263	14645	-490	18	14172						
April	17739	1145	16594	-1 384	18	15228						
May	18742	981	17762	-1 465	-423	15873						
lune	18322	771	17551	163		17102						
luly	18596	805	17792	867	-712	17946						
Avg.	20075	793	19282	630	987	18926						
Sept.	20 088	718	19369	1 535	-1 664	19 241						
Det.	20358	11 78	19181	284	-2116	17349						
Nov.	20714	1 632	19081	85	—1 633	17533						
Dec.	21 671	1158	20513	233	-1 287	18994						
1988												
lan.	21189	1 051	20138	1145	-612	20671						
Feb.	1 9699	1 093	18606	1816	-264	20158						

2.3 BANKS' CENTRAL BANK POSITION, MILL. FIM

Average of daily observations	Call money credits	Bank CDs held by the Bank of Finland	Gross debt to the Bank of Finland (1+2)	Call money deposits	Holdings of CDs issued by the Bank of Finland	Cash reserve deposits	Gross claim on the Bank of Finland (4+5+6)	Net position (3–7)
	1	2	3	4	5	6	7	8
1983	4131		4131	1 407		4337	5744	-1613
1984	3176		3176	3215		6324	9 539	-6364
1985	5812		5812	4 527		9 578	14105	-8 293
1986	7117	120	7237	1 256		9189	10445	-3208
1987	481	1 581	2062	703	4705	10092	15 501	-13439
1987								
March	158	3 5 7 3	3732	440	3648	9362	13449	-97 17
April	165	2972	3137	938	5756	9602	16296	-13160
May	407	1862	2 269	365	6720	9758	16843	-14575
June	189	1518	1 707	474	7 709	9980	18164	-16457
July	145	750	895	1 057	5457	10128	16643	-15748
Avg.	435	181	616	181	5 589	10431	16202	-15586
Sept.	39	142	181	667	5080	10352	1 6099	-15918
Oct.	19	-	19	557	5244	10861	16662	-16643
Nov.	36	_	36	679	5897	10985	17561	-17524
Dec.	10	_	10	909	5101	11021	17031	-17021
1988								
Jan.	9	6	15	1 081	5653	10955	17690	-17675
Feb.	15		15	546	7583	11114	19242	-19227
March	68	_	68	496	7116	12123	19735	-19668

3. RATES OF INTEREST 3.1 MONEY MARKET RATES AND RATES APPLIED BY THE BANK OF FINLAND, PERCENT

Average of Inter-ban daily ob- overnight servations rate _			HELIB	OR		Long- unrogu marke	betalu	Ba	nk of Finia rates	ed .	Cash reserve require- mont
		1 month	3 months	6 months	12 months	3 years	5 years	Call money credit rate	Cali money doposit rate	Base rate	ment
	1	2	3	4	5	6	7	8	9	10	11
1983								15.37	14.87	9.00	4.30
1984								16.53	16.53	9.50	5.40
1985								13.37	13.37	9.04	5.60
1986	11.87							13.43	11.34	7.42	4.80
1987	9.16	9.90	10.02	10.14	10.40	••	••	11.71	7.78	7.00	4.80
1987											
March	8.93	10.34	10.54	10.59	10.75			11.44	7.64	7.00	4.70
April	8.99	9.86	10.04	10.11	10.28			11.14	7.50	7.00	4.70
May	9.67	9.80	9.89	10.02	10.27			11.00	7.50	7.00	4.70
June	9.20	9.51	9.69	9.86	10.24			11.00	7.50	7.00	4.70
July	8.81	9.54	9.63	9.77	10.11			11.00	7.50	7.00	4.70
Avg.	9.62	9.48	9.55	9.66	9.88			11.00	7.50	7.00	4.70
Sept.	8.12	9.37	9.48	9.62	9.92			11.00	7.50	7.00	4.90
Oct.	8.09	9.29	9.45	9.63	10.04			11.00	7.50	7.00	4.90
Nov.	8.35	9.30	9.48	9.64	10.01			11.00	7.50	7.00	4.90
Dec.	8.01	9.15	9.25	9.44	9.79	10.3	10.4	11.00	7.50	7.00	4.90
1988											
Jan.	8.09	9.07	9.21	9.35	9.71	10.2	10.3	11.00	7.50	7.00	4.90
Feb.	8.20	9.09	9.22	9.35	9.67	10.2	10.3	11.00	7.50	7.00	5.30
March	8.62	9.61	9.72	9.84	10.11	10.4	10.5	11.00	7.50	7.00	5.70

3.2 WEIGHTED EURORATE (3 AND 12 CURRENCIES), PER CENT

3.3 COVERED EURO-DOLLAR RATE, PER CENT

rage 3 currencies ¹				_								
	3 curr	oncies '			12 cur	rencies ²						
1 month	3 months	6 months	12 months	1 month	3 months	ő menths	12 months	obsor-	1	3 months	6 months	12 months
1	2	3	4	5	6	7	8		1	2	3	4
7.0	7.1	7.3	7.6					1983				
7.5	7.7	8.0	8.2					1984				
6.8	6.9	7.0	7.2					1985	12.9	12.8	12.8	12.6
								1986	12.1	11.7	11.5	11.1
5.4	5.6	5.7	5.8	7.9	8.0	8.1	8.2	1987	9.8	9.9	9.9	10.1
								1987				
5.4	5.4	5.4	5.5	8.3	8.1	8.1	8.1	March	10.2	10.3	10.2	10.3
5.4	5.4	5.5	5.6	7.8	7.9	7.9	8.0	April	9.8	9.9	9.8	10.0
	5.4	5.5	5.7	7.6	7.7		8.0	May	9.7	9.7	9.8	10.0
5.3	5.3	5.4	5.6	7.5	7.6	7.7	8.0	June	9.4	9.5	9.7	9.9
5.3	5.4	5.5	5.7	7.4	7.6	7.8	8.1	July	9.4	9.5	9.6	9.9
			6.0	7.7				Avg.	9.4	9.4	9.5	9.8
								Sept.	9.2	9.3		9.7
								Oct.	9.2	9.4	9.5	9.9
								Nov.	9.2	9.4	9.5	9.9
5.5	5.5	5.5	5.7	7.7	7.8	7.9	8.1	Dec.	9.1	9.1	9.3	9.5
								1988				
4.9	5.1	5.2	5.5	7.2	7.5	7.7	7.9	Jan.	8.8	9.0	9.1	9.5
												9.5
								March				9.9
	state state 7.0 7.5 6.8 5.9 5.4 5.4 5.3 5.3 5.3 5.4 5.7 5.7 5.3 5.7	1 3 month months 1 2 7.0 7.1 7.5 7.7 6.8 6.9 5.9 5.9 5.4 5.4 5.4 5.4 5.3 5.3 5.3 5.4 5.4 5.4 5.3 5.3 5.7 5.8 5.7 6.4 5.3 5.5 5.5 5.5 4.9 5.1 5.0 5.0	month months months 1 2 3 7.0 7.1 7.3 7.5 7.7 8.0 6.8 6.9 7.0 5.9 5.9 5.9 5.4 5.6 5.7 5.3 5.4 5.5 5.3 5.4 5.5 5.3 5.4 5.5 5.3 5.4 5.5 5.4 5.5 5.8 5.7 5.8 6.2 5.7 5.8 6.2 5.7 5.8 6.2 5.7 5.8 6.2 5.7 5.8 6.2 5.7 5.8 5.5 5.3 5.6 5.6 5.3 5.6 5.5 5.3 5.5 5.5 5.3 5.6 5.6 5.5 5.5 5.5 5.5 5.5 5.5 5.0 5.0 5.1 <	1 3 6 12 months months months mouths 1 2 3 4 7.0 7.1 7.3 7.6 7.5 7.7 8.0 8.2 6.8 6.9 7.0 7.2 5.9 5.9 5.9 5.8 5.4 5.6 5.7 5.8 5.4 5.4 5.4 5.5 5.4 5.4 5.5 5.6 5.3 5.4 5.5 5.7 5.3 5.3 5.4 5.5 5.7 5.3 5.3 5.4 5.5 5.7 5.3 5.3 5.4 5.5 5.7 5.4 5.5 5.8 6.0 5.7 5.7 5.8 6.2 6.4 6.5 5.7 5.8 6.2 6.4 5.7 5.3 5.6 5.5 5.7 5.7 5.3 5.6<	1 3 6 12 1 menth menths menths menths menths menths 1 2 3 4 5 5 7.0 7.1 7.3 7.6 6.8 6.9 7.0 7.2 5.9 5.9 5.9 5.8 5.4 5.6 5.7 5.8 7.9 5.4 5.4 5.4 5.5 8.3 5.4 5.4 5.5 5.7 7.6 5.3 5.4 5.5 5.7 7.6 5.3 5.4 5.5 5.7 7.4 5.4 5.4 5.5 5.7 7.4 5.3 5.4 5.5 5.7 7.4 5.4 5.5 5.8 6.0 7.7 5.7 5.8 6.2 6.4 7.9 5.7 5.8 5.5 5.7 7.7 5.5	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 3 6 12 months mo	1 3 6 12 1 3 6 12 imenth menths <	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

DEM 60 per cent, USD 30 per cent, GBP 10 per cent.
 Weighted according to their relative shares in the Bank of Finland currency index.

3 A PATES OF INITEPEST APPLIED BY BANKS are CENT

End				-01/1				Depo							S AND	
of		New cre				Sav-	12-	24-	Aver-	Aver-					ES, PERCE	
riod	ac-	Bills of ex-		New lend-	iend- ing	ings : ac- counts	nonth : time de-	month time de-	age rate of in-	age rate of in-	age rate of in-	Pe- ried	Rates a		Secon marke	dary
	count and postal giro credits	change)	ing, total		and ordi- nary depos- it ac- tounts	pos- its	pos- its	on regu-		on total	-	Taxable public issues	free	Taxable public issues	Tax- froe public issues
	1	2	3	4	5	6	7	8	9	10	11		1	2	3	4
1983		• •	••		10.39	5.25	8.00	9.25		13.55		1983		10.9	13.1	10.3
1984					10.67	5.25	8.00	9.25		15.43	7.30		13.6	11.1	14.0	10.6
1985		+ .		11.08	10.37	4.75	7.50	8.75		13.24	6.81		12.7	10.6	12.7	10.1
1986		12.45		10.72		2.75 2.75	5.75 5.75	7.00 7.00		11.84	5.35 5.29		11.4 10.7	8.8 7.9	11.7 11.2	8.3 8.1
179/	10.00	11.75	7.01	10.25	7.12	2.75	5.75	7.00	4.50	10.15	J.27	170/	10.7	7.7	11.2	0.1
1987												1987	,			
Feb.		12.29			8.85	2.75	5.75	7.00		11.36	5.27	Feb.	11.2	8.0	12.1	7.8
		12.58			8.89	2.75	5.75	7.00		10.62	5.24		h 10.8	7.9	11.6	7.9
April	10.75				8.92	2.75	5.75	7.00	. –	10.34	5.29	April		7.8	11.3	7.8
May June		12.40	-		8.95 8.99	2.75 2.75	5.75 5.75	7.00 7.00		10.17 10.01	5.29 5.24	May June	10.7 10.8	7.9 7.9	11.1 11.1	7.8 8.0
July		12.46			9.02	2.75	5.75	7.00	4.49		5.24	July	10.8	7.9	11.0	8.4
Aug.		12.27		10.49	9.04	2.75	5.75	7.00	4.47	9.85	5.26	Ava.	10.7	7.9	10.8	8.7
Sept.		12.14		10.47	9.06	2.75	5.75	7.00	4.48	9.77	5.29	Sept.		8.0	10.8	8.4
Oct.	10.65	12.22	10.03	10.49	9.08	2.75	5.75	7.00	4.50	9.69	5.34	Oct.	10.4	7.8	10.9	8.2
Nov.	10.58	12.15	10.01	10.54	9.12	2.75	5.75	7.00	4.50	9.64	5.36	Nov.	10.1	7.6	10.8	8.1
Dec.	10.68	11.95	9.81	10.23	9.12	2.75	5.75	7.00	4.56	9.61	5.40	Dec.	10.2	7.7	10.5	8.0
1988												1988	1			
Jan.	10.27	12.21	9.82	10.25	9.15	2.75	5.75	7.00	4.57	9.51	5.38	Jan.	10.5	7.4	10.2	7.7
Feb.	9.56	11.82	10.04	10.24	9.17	2.75	5.75	7.00	4.55	9.43	5.40	Feb.	10.0	7.5	10.7	7.7

¹Average rate of interest for period

4. RATES OF EXCHANGE 4.1 AVERAGE SPOT SELLING RATES, FIM

of daily	New York	Montreal	London	Dublin	Stockholm	Oslo	Copon- hagen	Frankfurt a.M.	Amster- dam	Br	ussols
quo- tations	1 USD	1 CAD	1 GBP	1 IEP	1 SEK	1 NOK	1 DKK	1 DIM	1 NLG	1 BEC	1 BEL
	1	2	3	4	5	6	7	8	9	10	11
1983	5.570	4.524	8.456	6.957	0.7275	0.7644	0.6107	2.1861	1.9566	0.10934	0.10742
1984	6.010	4.645	8.023	6.533	0.7277	0.7384	0.5816	2.1165	1.8772	0.10428	0.10274
1985	6.206	4.554	8.000	6.590	0.7222	0.7231	0.5871	2.1142	1.8745	0.10483	0.10421
1986	5.077	3.659	7.459	6.816	0.7138	0.6882	0.6290	2.3454	2.0789	0.11399	0.11299
1987	4.404	3.325	7.213	6.556	0.6952	0.6547	0.6444	2.4514	2.1755	0.11806	0.11735
1987											
March	4.509	3.421	7.185	6.579	0.7040	0.6521	0.6537	2.4603	2.1785	0.11884	0.11821
April	4.422	3.360	7.216	6.535	0.7014	0.6542	0.6480	2.4429	2.1652	0.11797	0.11747
May	4.358	3.253	7.280	6.534	0.6979	0.6561	0.6486	2.4398	2.1648	0.11770	0.11708
June	4.427	3.311	7.221	6.530	0.6990	0.6606	0.6469	2.4353	2.1620	0.11754	0.11726
July	4.487	3.389	7.236	6.522	0.6981	0.6652	0.6409	2.4309	2.1589	0.11730	0.11688
Aug.	4.505	3.404	7.207	6.503	0.6956	0.6645	0.6334	2.4275	2.1547	0.11695	0.11627
Sept.	4.394	3.344	7.240	6.493	0.6902	0.6624	0.6299	2.4258	2.1552	0.11686	0.11630
Oct.	4.361	3.337	7.249	6.489	0.6872	0.6591	0.6301	2.4196	2.1504	0.11629	0.11576
Nov.	4.138	3.151	7.354	6.551	0.6827	0.6462	0.6382	2.4617	2.1875	0.11772	0.11722
Dec.	4.043	3.096	7.399	6.584	0.6813	0.6352	0.6422	2.4753	2.1998	0.11837	0.11785
1988											
Jan.	4.036	3.143	7.288	6.505	0.6775	0.6373	0.6369	2.4456	2.1764	0.11702	0.11669
Feb.	4.120	3.251	7.249	6.473	0.6819	0.6435	0.6355	2.4290	2.1632	0.11622	0.11597
March	4.053	3.247	7.426	6.463	0.6822	0.6410	0.6313	2.4160	2.1513	0.11557	0.11527

Average of daily	Zurich	Paris	Rome	Vienna	Lisbon	Reykjavik	Madrid	Tekye	Moscow	Mel- bourne	ECU	SDR
quo- tations	1 CHF	1 FRF	1 ITL	1 ATS	1 PTE	1 IS K	1 ESB	1 JPY	1 SVR	1 AVD	1 XEU	1 XDR
	12	13	14	15	16	17	18	19	20	21	22	23
1983	2.6570	0.7353	0.00369	0.3111	0.0514	2.2325	0.0391	0.02351	7.491			5.94325
1984	2.5642	0.6907	0.00344	0.3013	0.0414	0.1939	0.0375	0.02534	7.357			6.14739
1985	2.5360	0.6940	0.00327	0.3012	0.0367	0.1520	0.0366	0.02610	7.419			6.27879
1986	2.8349	0.7355	0.00343	0.3339	0.0343	0.1259	0.0364	0.03028	7.228			5.94432
1 987	2.9563	0.7345	0.00341	0.3488	0.0315	0.1163	0.0358	0.03050	6.965	3.106	5.075	5.68010
1987												
March	2.9353	0.7407	0.00347	0.3503	0.0322	0.1176	0.0352	0.02980	7.003	3.119	5.103	5.71328
April	2.9599	0.7350	0.00343	0.3478	0.0319	0.1162	0.0350	0.03097	6.971	3.165	5.072	5.70115
May	2.9689	0.7316	0.00339	0.3474	0.0316	0.1155	0.0350	0.03105	6.935	3.136	5.063	5.67351
June	2.9367	0.7306	0.00337	0.3468	0.0315	0.1163	0.0352	0.03066	6.969	3.196	5.050	5.68539
July	2.9246	0.7316	0.00337	0.3460	0.0314	0.1170	0.0355	0.02989	6.985	3.199	5.045	5.68463
Aug.	2.9321	0.7288	0.00337	0.3455	0.0313	0.1171	0.0360	0.03057	7.020	3.206	5.031	5.70792
Sept.	2.9284	0.7280	0.00337	0.3450	0.0311	0.1155	0.0364	0.03071	6.953	3.215	5.031	5.66425
Oct.	2.9163	0.7262	0.00336	0.3441	0.0308	0.1152	0.0369	0.03044	6.928	3.135	5.020	5.63821
Nov.	2.9957	0.7266	0.00336	0.3501	0.0306	0.1140	0.0367	0.03061	6.838	2.863	5.076	5.57249
Dec.	3.0403	0.7316	0.00338	0.3519	0.0305	0.1135	0.0366	0.03151	6.820	2.891	5.105	5.57906
1988												
Jan.	3.0050	0.7259	0.00333	0.3479	0.0301	0.1128	0.0361	0.03170	6.786	2.894	5.048	5.54743
Feb.	2.9625	0.7204	0.00330	0.3461	0.0300	0.1130	0.0361	0.03190	6.832	2.962	5.014	5.57446
March	2.9243	0.7135	0.00328	0.3441	0.0298	0.1060	0.0362	0.03189	6.786	2.989	5.001	5.54669

4.2. CURRENCY INDICES, 1982=100

Average		Other curr	ency indices	Currency	Weights of the Bank of
of daily observa- tions	Bank of Finland currency index 1	Payments currency index ¹	MERM index		Finland currency index As from March 24, 1988
	1	2	3		4
1983	104.1	108.3	109.9	USD	7.6
1984	102.8	108.5	111.6	GBP	13.2
1985	102.5	109.4	112.5	SEK	20.8
1986	103.9	106.3	110.4	NOK	5.1
1987	103.3	100.7	106.1	DKK	5.0
				DEM	20.1
1987				NLG	4.9
March	103.8	101.5	107.0	BEC	3.1
April	103.6	100.7	106.7	CHF	2.7
May	103.4	100.3	106.0	FRF	6.8
June	103.3	100.6	106.2	ITL	4.8
July	103.3	100.8	106.3	JPY	5.9
Avg.	103.2	100.8	106.7		
Sept.	102.8	100.0	105.8		
Oct.	102.5	99.6	105.3		
Nov.	102.7	98.6	103.9		
Dec.	102.9	100.4	103.7		
1988					
Jan.	102.2	100.3	103.4		
Feb.	102.2	100.6	104.1		
March	102.0	100.2	103.4		

¹The base 1982=100 has been applied since January 1, 1984. The figures before that date are based on the earlier index of 1974=100, but they have been rebased to the current base.

5. OTHER DOMESTIC FINANCING 5.1 BANK DEPOSITS BY THE PUBLIC, MILL FIM

End of period	Demand deposits	Time deposits	Investment accounts	Markka dopesits, total (1+2+3)	Foroign currency deposits	Unregulated deposits	Total deposits (4+5+6)
	1	2	3	4	5	6	7
1982	13268	82606		95874	3258	4200	103 332
1983	14337	93 551		107888	5101	7700	120688
1984	16975	108118		125093	4960	11287	141340
1985	19268	125366	1 781	146415	6192	13998	166605
1986	18393	137521	3 4 2 3	159337	4 306	17271	180914
1986							
Nov.	18419	135022	3193	156635	5209	18344	180187
Dec.	18393	137521	3 4 2 3	159337	4 306	17271	180914
1987 °							
Jan.	17574	139858	3633	161 065	4 704	21 550	187320
Feb.	17561	1 41 266	3775	162602	4 509	20770	1 8788 1
March	19 535	141 446	3886	164866	4222	21 675	190764
April	1 9805	143672	3995	167 472	4022	19652	191145
May	19369	145829	4121	169318	4 209	20465	193992
June	21 564	146857	4289	172710	4 4 3 0	191 7 5	196315
July	20046	147725	4 4 4 7	172219	4 50 1	20063	196783
Aug.	21610	149397	4 574	175 581	4189	20162	199933
Sept.	21 090	148720	4777	174 586	4259	22 539	201 384
Oct.	21 583	149455	5000	176038	3794	25321	205153
Nov.	21631	149098	5194	175923	5174	22 478	203 575

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	Tetal lending (4+5)
	1	2	3	4	5	6
1982	3468	7686	85 328	96 482	14105	110587
1983	4 3 5 0	7264	97362	108977	17253	126231
1984	5233	7644	111280	124157	20363	144 520
1985	6313	7471	132668	146451	24704	171155
1986	7 542	6354	152335	166231	25016	191246
1986						
Nov.	7644	6065	151157	164867	25820	190686
Dec.	7 542	6354	152335	166231	25016	191246
1987 '						
Jan.	7455	6086	153938	167 479	25118	192 597
feb.	7 5 5 7	6115	155426	169098	25981	195079
March	7943	5800	156849	170592	27183	197775
April	8019	5729	158580	172328	28108	200 437
May	7998	5667	160769	174435	29732	204 167
June	8224	5589	163290	177103	30 0 7 9	207 182
July	8 262	5465	165436	179164	30867	210031
Aug.	8 3 9 2	5 4 9 9	1 67896	181787	31 538	213324
Sept.	8697	5453	170322	184472	33160	217632
Oct.	8739	5286	172968	186994	35895	222 889
Nev.	8974	5174	175284	189431	36 635	226 066

End of	Foreign	E	omestic credit		Other		
period	assets, net	Claims on the contral government	Claims on the public	Total (2+3)	items, net	M,	M2 (1+4+5)
	1	2	3	4	5	6	7
1983	-6081	-3297	152199	148902	-20915	21 427	121906
1984	-2 575	5 483	176694	171211	-26978	24945	141658
1985	-6641	8694	209 23 1	200 537	-27244	27694	166652
1986	—1 6784	-13884	237514	223630	-27 522	27838	179324
1987	-25484	-14993	276 302	261 309	-35363	30 342	200 461
1986							
Doc.	—16784	-13884	237514	223630	27 522	27838	179 324
1987							
Jan.	-13870	—8180	239 460	231 280	-36216	27075	181194
Feb.	-14633	—10046	241314	231 269	-34 200	26782	182436
March	<u> 17 184</u>	-11234	243932	232 698	-31 522	28901	183992
April	-17467	9074	245 599	236 525	-32276	29 0 29	186783
May	-17917		249 597	240762	34 297	28 547	188 548
June	-18863		253240	244960		30754	192092
July	-17724	-9289	255 448	246159		29126	192062
Avg.	21 425	-7994	258743	250749	-34109	30991	195215
Sept.	-23 440	-9092	263 257	254165	-36 404	30 360	194321
Oct.	-23 445	9941	268 569	258 628	3996 1	30729	195222
Nov.	-23021	—1 4 346	271 682	257 337		30757	196264
Dec.	-25 484	-14993	276 302	261 309	-35363	30342	200 46 1

5.3 MONEY SUPPLY AND MONETARY AGGREGATES, MILL FIM

5.4 LIABILITIES AND ASSETS OF THE CENTRAL GOVERNMENT, MILL FIM

End of		Foreig	n debt			Dom	estic debt		Total	Out-	Cash
period	Bonds	Other bonds and debon- tures	Long- torm promis- sory notes	Total (1+2+3)	Public bonds	Other Jong- term Jiabii- ities	Treasury notes and bills	Tətal (5+6+7)	contral govern- mont debt (4+8)	stand- ing londing	funds
	1	2	3	4	5	6	7	8	9	10	11
1983	14127	3 3 9 1	4205	21 723	9 506	4377	2518	16401	38124	31187	5042
1984	16513	2666	5767	24946	12037	4 520	2766	19323	44 269	33816	6 300
1985	17316	2703	5658	25677	14994	4107	2 203	21 304	46981	36033	6383
1986	17905	3038	6038	26981	18059	4481	2474	25013	51 994	38 0 28	11686
1987	20 407	2697	5576	28 680	22121	4691	3018	29831	58511	••	11 553
1987											
Feb.	18435	2954	6548	27937	18393	4 401	1874	24667	52604	38419	7 559
March	19168	2443	6267	27878	19119	4378	1949	25446	53 324	38783	8820
April	19185	2447	6263	27895	19154	4009	1670	24833	52728	39081	6449
May	20027	2413	6370	28810	1 9705	3978	1 903	25586	54 396	39028	7421
June	19210	2417	6028	27655	19868	4082	2040	25990	53645	39196	6234
July	19204	2415	5942	27 561	1 9971	4 387	2146	26 504	54065	39 565	6795
Aug.	18279	2416	5940	26635	20 4 26	4 4 2 2	2194	27042	53677	39623	6219
Sept.	18139	2387	5858	26384	20576	4443	2216	27235	53619	39896	6750
Oct.	19136	2418	5758	27312	21 328	4 4 9 4	2481	28 303	55615	40199	8084
Nov.	19820	2591	5711	28122	22034	4 4 9 0	2731	29255	57377	40 299	13109
Dec.	20 407	2697	5 576	28 680	22121	4692	3018	29831	58511	• •	11 553
1988											
Jan.	19750	2645	5465	27860	22663	4678	3 3 2 8	30 6 6 9	58 529		
Feb.	19665	2463	5404	27532	23053	4643	3713	31 409	58941		

5.5 DOMESTIC BOND MARKET A) ISSUES, mill. Fim

During period			By sector			B 1	y type of lo	an	Total
penea	Corporate	Financial	Central	Local	Others	Public	: issues	Private	(1+2+3+4+5) =
	sector	institutions	government	gevernment		Taxable	Taxfree	placings	(6+7+8)
	1	2	3	4	5	6	7	8	9
1983	2035	5602	3 890	77	10	1151	3882	6581	11614
1984	2 5 2 8	6167	5073	112	32	1947	5336	6629	13912
1985	4804	9112	5994	435	28	8070	6394	5909	20373
1986	4976	10639	6 5 3 2	422	105	5987	7487	9200	22674
1987	4 527	9415	8119	206	69	·9 364	8830	4142	22 335
1987									
Feb.	433	1085	195	10	20	545	1 060	138	1 743
March	551	1 796	1218	_	_	851	1 704	1010	3 564
April	153	475	1 006	_	_	280	127	1 227	1 634
May	230	254	1092	27	20	501	1 0 9 2	30	1 623
June	205	63	209	55	-	210	209	113	531
July	147	153	116	_	_	228	116	72	416
Avg.	440	205	941	59	-	674	941	30	1644
Sept.	685	1 769	331	_	_	1 260	1070	455	2786
Oct.	851	1174	1 083	4		2024	974	114	3112
Nov.	336	1 005	841	_	11	1 289	450	454	2193
Dec.	347	757	101		18	714	101	408	1 222
1988									
Jan.	251	5	1 370	_	_	108	1 370	148	1 626
Feb.	260	968	631	63	_	874	806	241	1922

B) STOCK, MILL. FIM

End of period			By sector			B	y type of lo	an	Total
henea	Corporate	Financial	Contrai	Local	Others	Public	issues	Private	(1+2+3+4+5)
	sector	institutions	government	government		Taxable	Taxfree	placings	(6+7+8)
	1	2	3	4	5	6	7	8	9
1982	3 3 2 9	10607	9448	60	1	973	9 798	12673	23 4 4 4
1983	5027	14986	11869	152	11	1 90 1	12057	18087	32045
1984	6766	19850	14904	247	43	3474	15148	23189	41810
1985	10482	26117	18 575	661	56	10911	19002	25977	55891
1986	14076	31 293	22090	1042	177	16178	23314	29186	68 677
1986									
	13718	29049	20682	870	95	14465	21963	27985	64412
IV	14076	31 293	22090	1042	1 77	16178	23314	29186	68 677
1987									
1	15286	31159	23087	1091	198	17878	24365	28 578	70821
11	15511	31962	23623	1159	213	1 8897	25906	27664	72 468
161	16260	32 528	24707	1 224	203	20 50 1	26782	27639	74922

5.6 HELSINKI STOCK EXCHANGE

During period		Turnover, mill. Fl/	'n	Unif	Share prices as Index ¹ , 1975 =	100
-	Sharos and subscription rights	Bonds and debentures	Total (1+2)	Banks	Industry	Overall index
	1	2	3	4	5	6
1983	1 390	2356	3746	190	144	194
1984	2 508	5007	7515	259	193	273
1985	3114	9046	12160	229	184	234
1986	9488	6 479	15968	350	254	357
1987	26641	4604	31 245	546	319	603
1987						
Feb.	1173	549	1 722	450	296	485
March	2669	594	3262	478	295	523
April	1 472	203	1675	505	292	561
May	1 858	212	2070	514	287	575
June	1 798	358	2156	538	296	604
July	2647	152	2 799	593	317	666
Avg.	2809	193	3002	615	335	689
Sept.	2962	172	3133	635	351	707
Oct.	4099	140	4 2 3 9	643	379	708
Nov.	2275	251	2 5 2 5	578	360	631
Dec.	1701	1241	2942	558	328	611
1988						
Jan.	994	75	1 069	547	318	600
Feb.	1 485	248	1 733	572	340	625

· Average of daily observations

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

During period	Experts of goods, f.o.b.	Trans- port receipts		Other services receipts	receipts	goods	ment income	Trans- fors and other income	Current account receipts (6+7+8)		Trans- port ex- pondi- ture	T ravel ex- pendi- ture	Other services ex- pendi- ture
	1	2	3	4	5	6	7	8	9	10	11	12	13
1983	67960	5765	2851	6159	14775	82735	3067	3310	89112	7073 1	2565	3 5 9 9	4 467
1984	78961	6580	3039	5610	15229	94190	4 5 37	3624	102351	73 496	2572	4250	5819
1985	82 475	6216	3258	6224	15698	98173	5847	3791	107811	80764	2545	5031	6554
1 986 *	81 086	5293	3148	5158	13599	94685	4 580	3640	102905	76745	2223	5567	5527
1 987 '	84000	5000	3600	5 500	14100	98100	4600	3900	106 600	82 200	2 200	6 600	5800
1985													
INI	20284	1 465	1 181	1 424	4070	24354	1514	954	26822	19366	559	1 475	1 343
IV	20347	1 542	693	1 770	4004	24351	1 391	959	26702	21610	727	1172	1 962
1 986 '													
1	19717	1 269	564	999	2832	22 549	1 209	903	24661	20601	438	1163	1361
H	17780	1 287	780	1171	3238	21018	1 297	904	23219	15506	566	1 424	1 346
111	20933	1 435	1134	1 257	3826	24759	966	897	26 6 2 2	20640	595	1 648	1 336
IV	22657	1 302	67 1	1 730	3703	26 360	1108	935	28 403	19998	624	1 332	1 485
1987 *													
1	20141	1210	579	1157	2946	23087	1 0 3 5	1 044	25166	19645	514	1 392	1 486
14	21 399	1 360	916	1 263	3 5 4 0	24939	1 284	950	27172	20 563	615	1671	1516
141	20936	1 221	1311	1 378	3910	24846	1 081	922	26849	20356	504	1 896	1417
IV	21 524	1 209	794	1 701	3704	25228	1 201	983	27412	21 636	567	1641 [.]	1 382

During period	expendi- ture, total (11+12	- of goods and		fors	account expen- diture (15+16	account	port	(3-12)		account (20+	and servi- ces account	ment in- come,	fors and others, not (8-17)	
-	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1983	10631	81 361	8875	4094	94 331	-2771	3 200	-748	1 692	4 144	1 373	-5808	-784	-5219
1984	12641	86 137	11 298	5010	102 445	5465	4008	-1 211	-209	2588	8053	-6761	-1 385	93
1985	14 130	94893	12 134	5300	112 327	1711	3671	-1 773	-330	1 568	3279	-6287	′ —1 509	-4517
1986*	13317	90 0 6 2	11.533	5809	107 405	4 3 4 1	3070	-2419	—370	282	4623	6954	-2 169	4 500
1987*	14600	96 800	12600	6 400	115800	1 800	2800	-3000	-300	-500	1 300	-8 000	-2500	9 200
1985														
	3 3 7 7	22742	2770	1 259	26772	919	906	-294	81	693	1 612	—1 257	′ —305	50
IV	3862	25472	2899	1 314	29685	—1 263	814	-479	192	143	-1 121	-1 508	-355	2984
1986*														
1	2962	23 563	2890	1 445	27898		831	-600	361	-130	-1014	—1 68 1	-542	-3237
	3 3 3 6	18843	3 360	1 270	23472	2273	721	645	-175		2 175	-2064	-365	-254
119	3 578	24218	2411	1 378	28 007	293	840	513	—79	248	541	1 445	5 —480	—1 385
IV	344]	23439	2871	1 717	28027	2659	678	-66 1	245	262	2921	-1 763	-782	376
1 987 '														
1	3 392	23038	2937	1 769	27743	496	696		-329	446	50	-1 902	. –725	-2577
If	3802	24364	3829	1 49 8	29 691	836	745	755	-252	-262	574	-2545	5 —548	-2519
111	3816	24 172	2 4 2 9	1 515	28 116	580	717	585	-38	94	674	-1 348	-593	-1 267
IV	3 590	25226	3406	1617	30 2 50	-112	642	846	319	114	2	-2205	i —634	-2837

6.2 CAPITAL ACCOUNT, MILL FIM

During	Direct	Port-	L	ong-terr	n crodits			Imports		Port-			Exports	
period			Contral govern- ment		Others	Total (3+4 +5)	of other long- term capital	of torm capital (1+2+ 6+7)	invest- mont abroad	folic invest- mont abroad	term export credits	long- term		term capital account (8—13)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1983	88		2 5 5 4	323	—38	2839	652	3 579	1 452		-423	676	1 705	1874
1984	324	1 492	2 598	2861	1 090	6549	68	8433	2 4 7 9		1 682	-1960	220 1	6232
1985	392	4264	1 5 5 6	1 489	442	3 487	140	8283	2073	78	-1313	948	1 786	6497
1986 *	1 627	646	-63	5935	-482	5390	87	7750	3641	489	-381	713	4 462	3288
1987*	430	-1626	2287	5383	2843	10513	91	9 408	3785	2119	181	3223	9 308	100
1985														
	54	_107	516	721	-654	583	20	550	486		-263	29	252	298
IV	179	67	222	77	879	1178	43	1 467	349	78	-347	588	668	799
1986*														
1	86	94	-722	1246	62	587	-65	701	357	-15	-241	8	109	592
	56	710	596	1 040	-194	1 442	17	2225	925	89	111	126	1 251	974
	273	-206	16	1412	-105	1 323	83	1 473	1152	279	-110	409	1729	256
IV	1212	48	47	2237	-245	2039	52	3 351	1 207	136	-141	170	1 372	1 979
1987 •														
1	131	-387	1640	1756	873	4269	79	4092	778	124	265	2495	3662	430
11	199	6	-442	1 530	1 257	2345	-55	2495	1173	925	-145	83	2036	459
116	17	-271	-1018	974	522	478	12	236	653	367	112	120	1 253	-1017
IV	83	-974	2107	1123	191	3421	55	2585	1181	703	-51	525	2 358	227

During period	Basic balanco		liabili-	Imports of short-	term		of short-		term		Change in contra bank's	Of wh	lich:
		imports of au- thorized	tios and propay- monts ro lated to exports	(16+17)	experts	ments	capital (19+20)	term capital incl. er- rors and emission	(18–21+ 22)	move- ments (15+23)	foreign ex-	reserves	Tied resorves
	15	16	17	18	19	20	21	22	23	24	25	26	27
1983 1984	-3344 6138	16080	944	17024	6328 13994	-2811	8 556 11 183	-2704	3137		-9275	-10 142	
1985 1986 ' 1987 '	1 980 —1 212 —9 100	6019	-917	5 101	1 623 15 676 —906			3764		-7930			-3748 2081
1985 V	347 —2 185	7 —3 134 5 2 563		—3 489 1 363	1 734 15		—1 <i>7</i> 97 —49			—1 566 930			525 39
1986* I II II1 IV	2645 720 1641 2355	1 999 3 185	-1 844	156 156 1422	1 649 4 813 6 304 2 910	—15 —31	1 634 4 798 6 273 2 879	687 1 279	-3956	—3 162 —3 236 —2 213 681		4 161 3 455	782 925 1 242 798
1987* V	—2 147 —2 060 —2 283 —2 610	7672	165 —32	7837	3809 3902 5681 6680	118 125	3927 3784 5806 7867	4 243 419	8 382 8 296 2 920 5 237	6237 637	-6237	-7020 -5569 -2407 -2820	785 667 1 771 193

6.3 FINLAND'S	S FOREIGN LIABILITIES	AND ASSETS, MILL FIM
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		Lor	ig-term	liabilitie	5				Long	g-term a	ssets		Long- — term
		Contral	Author-		Total	Other long- term	Total (1+2+ 6+7)	Direct invest- ment			Other long- term	Total (9+10+ 11+12)	dobt, net
riniana			banks			capitai		aprodu	abroad	Gregina	capital		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
2317	848	21 740	2419	33749	57909	444	61 518	6166		6612	4051	16829	44689
2905	2013	24928	5960	37227	68116	512	73546	8 689		8920	2097	19706	53840
3274	6313	25678	6410	34276	66 364	652	76 603	10524	78	6 539	3053	20194	56 409
4892	6959	26292	11992	32044	70 330	739	82920	13727	567	5649	3685	23628	59292
5289	5333	27826	17328	32942	78 095	830	89 547	16686	2686	5260	6737	31 369	58178
3104	6210	25749	6 5 5 6	34 401	66 707	609	76630	10484		7194	2417	20095	56 5 35
3274	6313	25678	6410	34276	66 364	652	76 603	10524	78	6 5 3 9	3053	20194	56 409
3351	6407	25126	7546	32986	65659	587	76004	10697	63	6103	3033	19896	56108
3414	7117	26 548	8 708	33159	68417	604	79 551	11719	152	6158	3148	21177	58375
3687	6911	26710	10063	32664	69 438	687	80723	12601	431	5865	3 5 2 7	22 424	58 299
4892	6959	26 292	11 992	32044	70330	739	82920	13727	567	5649	3685	23628	59 292
5013	6572	27361	13447	31 978	72787	818	85190	14166	691	5660	6114	26631	58 559
5209	6578	26967	15024	33267	75259	763	87809	15347	1616	5527	6203	28 693	59116
5213	6307	25679	15800	33472	74952	775	87247	15812	1983	5478	6304	29 577	57670
5289	5333	27826	17328	32942	78 0 9 5	830	89547	16686	2686	5260	6737	31 369	58178
	Invest- ment In Finland 2 317 2 905 3 274 4 892 5 289 3 104 3 274 3 351 3 414 3 687 4 892 5 013 5 209 5 213	invest- ment in Finland feile - ment in Finland 2 317 848 2905 2013 3274 6313 4892 6959 5289 5333 3104 6210 3274 6313 3104 6210 3274 6313 3104 6210 3274 6313 3414 7117 3687 6911 4892 6959 5013 6572 5209 6578 5213 6307	Direct invest Finland Part follo ment in invest Finland L Central Severa- ment 1 2 3 2317 848 21740 2005 2013 24928 3274 6313 25678 4892 6959 26292 5289 5333 27826 3104 6210 25749 3274 6313 25678 3104 6210 25749 3274 6313 25678 3104 6210 25749 3274 6313 25678 3351 6407 25126 3414 7117 26548 3687 6911 26710 4892 6959 26292 5013 6572 27361 5209 6578 26967 5213 6307 25678	Direct invest- Finland Pert- follo ment in invest- Finland Long-terr Central Severn- Finland 1 2 3 4 2317 848 21740 2419 2005 2013 24928 5960 3274 6313 25678 6410 4892 6959 26292 11992 5289 5333 27826 17328 3104 6210 25749 6556 3274 6313 25678 6410 3104 6210 25749 6556 3274 6313 25678 6410 3351 6407 25126 7546 3414 7117 26548 8708 3687 6911 26710 10063 4892 6959 26292 11992 5013 6572 27361 13447 5209 6578 26967 15024 5213 6307 25679 15800	Direct invest- Finland Part- folio ment in invest- Finland Leng-term credits Author- generation 1 2 Central Author- generation Others banks 2317 848 21740 2419 33749 2013 24928 5960 37227 3274 6313 25678 6410 34276 4892 6959 26292 11992 32044 5289 5333 27826 17328 32942 3104 6210 25749 6556 34401 3274 6313 25678 6410 34276 3104 6210 25749 6556 34401 3274 6313 25678 6410 34276 3351 6407 25126 7546 32986 3414 7117 26548 8708 33159 3687 6911 26710 10063 32644 4892 6959 26292 11992 32044 5013 6572 <t< td=""><td>Invest- infand fello ment in sovern- finland Contral Author- banks Others Tetal (3+4+5) 1 2 3 4 5 6 2317 848 21740 2419 33749 57909 2905 2013 24928 5960 37227 68116 3274 6313 25678 6410 34276 66364 4892 6959 26292 11992 32044 70330 5289 5333 27826 17328 32942 78095 3104 6210 25749 6556 34401 66707 3274 6313 25678 6410 34276 66364 3351 6407 25126 7546 32986 65659 3414 7117 26548 8708 33159 68417 3687 6911 26710 10063 32644 69438 4892 6959 26292 11992 32044 70330 5</td><td>Direct invest- Finland Pert- fello ment in sweat- Finland Long-term credits Author- ment in sweat- Finland Others contral ment in ment in sweat- banks Total (3+4+5) Other term (3+4+5) 1 2 3 4 5 6 7 2317 848 21740 2419 33749 57909 444 2905 2013 24928 5960 37227 68116 512 3274 6313 25678 6410 34276 66364 652 4892 6959 26292 11992 32044 70330 739 5289 5333 27826 17328 32942 78095 830 3104 6210 25749 6556 34 401 66707 609 3274 6313 25678 6410 34276 66364 652 3351 6407 25126 7546 32986 65659 587 3414 7117 26548 8708 33159 68417 604</td><td>Direct invest- Finland Part- follo servert- Finland Long-term credits severn- ment Others banks Total (3+4+5) capital Other term term (3+4+5) Total term term (3+4+5) Total term term (1+2+ 6+7) 1 2 3 4 5 6 7 8 2317 848 21740 2419 33749 57909 444 61518 2013 24928 5960 37227 68116 512 73546 3274 6313 25678 6410 34276 66364 652 76603 4892 6959 26292 11992 32044 70330 739 82920 5289 5333 27826 17328 32942 78095 830 89547 3104 6210 25749 6556 34401 66707 609 76630 3274 6313 25678 6410 34276 66364 652 76004 3414 7117 26548 8708 33159 68417 604<</td><td>Diroct invest- Finland Pert- felle ment in mont in mon</td><td>Direct invest- follo Pert- follo Leng-torm credits Others tand Total leng- term (3+4+5) Total leng- term (3+4+5) Total term follo Direct invest- ment Pert- follo invest- ment 1 2 3 4 5 6 7 8 9 10 2317 848 21740 2419 33749 57909 444 61518 6166 2005 2013 24928 5960 37227 68116 512 73546 8689 3274 6313 25678 6410 34276 66364 652 76603 10524 78 4892 6959 26292 11992 32044 70330 739 82920 13727 567 5289 5333 27826 17328 32942 78095 830 89 547 16686 2686 3104 6210 25749 6556 34401 66707 609 76630 10 484 3274</td><td>Diroct invest- follo Pert- follo Long-term credits Other (3+4+5) capital Tetal term (3+4+5) capital Diroct follo (3+4+5) capital Diroct follo (1+2+ 5+7) Diroct ment broad Diroct invest- broad Long- term term teredits 1 2 3 4 5 6 7 8 9 10 11 2317 848 21740 2419 33749 57909 444 61518 6166 . 6612 2905 2013 24928 5960 3727 68116 512 73546 8689 . 8920 3274 6313 25678 6410 34276 66364 652 76603 10524 78 6539 4892 6959 26292 11992 32044 70330 739 82920 13727 567 5649 5289 5333 27826 17328 32942 78095 830 89547 16686 2686 5260 3104 6210 25126 7546<!--</td--><td>Diroct invest- feilo ment in gevern- finland Long-torm credits contral ment in gevern- finland Other contral ment in gevern- finland Cong- contral ment in gevern- finland Long-torm credits trad ment in gevern- finland Other contral banks Total (3+4+5) capital Diroct ferm ferm credits Diroct ferm ment in gevern- abroad Long- torm credits Other lang- torm credits Other torm credits Diroct ferm ment in gevern- toredits Long- torm credits Other lang- torm 1 2 3 4 5 6 7 8 9 10 11 12 2317 848 21740 2419 33749 57909 444 61518 6166 6612 4051 2905 2013 24928 5960 37227 68116 512 73546 8689 8920 2097 3274 6313 25678 6410 34276 66364 652 76603 10484 7194 2417 3274 6313 25678 6410 34276 66364 652 76603 10484<td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td></td></td></t<>	Invest- infand fello ment in sovern- finland Contral Author- banks Others Tetal (3+4+5) 1 2 3 4 5 6 2317 848 21740 2419 33749 57909 2905 2013 24928 5960 37227 68116 3274 6313 25678 6410 34276 66364 4892 6959 26292 11992 32044 70330 5289 5333 27826 17328 32942 78095 3104 6210 25749 6556 34401 66707 3274 6313 25678 6410 34276 66364 3351 6407 25126 7546 32986 65659 3414 7117 26548 8708 33159 68417 3687 6911 26710 10063 32644 69438 4892 6959 26292 11992 32044 70330 5	Direct invest- Finland Pert- fello ment in sweat- Finland Long-term credits Author- ment in sweat- Finland Others contral ment in ment in sweat- banks Total (3+4+5) Other term (3+4+5) 1 2 3 4 5 6 7 2317 848 21740 2419 33749 57909 444 2905 2013 24928 5960 37227 68116 512 3274 6313 25678 6410 34276 66364 652 4892 6959 26292 11992 32044 70330 739 5289 5333 27826 17328 32942 78095 830 3104 6210 25749 6556 34 401 66707 609 3274 6313 25678 6410 34276 66364 652 3351 6407 25126 7546 32986 65659 587 3414 7117 26548 8708 33159 68417 604	Direct invest- Finland Part- follo servert- Finland Long-term credits severn- ment Others banks Total (3+4+5) capital Other term term (3+4+5) Total term term (3+4+5) Total term term (1+2+ 6+7) 1 2 3 4 5 6 7 8 2317 848 21740 2419 33749 57909 444 61518 2013 24928 5960 37227 68116 512 73546 3274 6313 25678 6410 34276 66364 652 76603 4892 6959 26292 11992 32044 70330 739 82920 5289 5333 27826 17328 32942 78095 830 89547 3104 6210 25749 6556 34401 66707 609 76630 3274 6313 25678 6410 34276 66364 652 76004 3414 7117 26548 8708 33159 68417 604<	Diroct invest- Finland Pert- felle ment in mont in mon	Direct invest- follo Pert- follo Leng-torm credits Others tand Total leng- term (3+4+5) Total leng- term (3+4+5) Total term follo Direct invest- ment Pert- follo invest- ment 1 2 3 4 5 6 7 8 9 10 2317 848 21740 2419 33749 57909 444 61518 6166 2005 2013 24928 5960 37227 68116 512 73546 8689 3274 6313 25678 6410 34276 66364 652 76603 10524 78 4892 6959 26292 11992 32044 70330 739 82920 13727 567 5289 5333 27826 17328 32942 78095 830 89 547 16686 2686 3104 6210 25749 6556 34401 66707 609 76630 10 484 3274	Diroct invest- follo Pert- follo Long-term credits Other (3+4+5) capital Tetal term (3+4+5) capital Diroct follo (3+4+5) capital Diroct follo (1+2+ 5+7) Diroct ment broad Diroct invest- broad Long- term term teredits 1 2 3 4 5 6 7 8 9 10 11 2317 848 21740 2419 33749 57909 444 61518 6166 . 6612 2905 2013 24928 5960 3727 68116 512 73546 8689 . 8920 3274 6313 25678 6410 34276 66364 652 76603 10524 78 6539 4892 6959 26292 11992 32044 70330 739 82920 13727 567 5649 5289 5333 27826 17328 32942 78095 830 89547 16686 2686 5260 3104 6210 25126 7546 </td <td>Diroct invest- feilo ment in gevern- finland Long-torm credits contral ment in gevern- finland Other contral ment in gevern- finland Cong- contral ment in gevern- finland Long-torm credits trad ment in gevern- finland Other contral banks Total (3+4+5) capital Diroct ferm ferm credits Diroct ferm ment in gevern- abroad Long- torm credits Other lang- torm credits Other torm credits Diroct ferm ment in gevern- toredits Long- torm credits Other lang- torm 1 2 3 4 5 6 7 8 9 10 11 12 2317 848 21740 2419 33749 57909 444 61518 6166 6612 4051 2905 2013 24928 5960 37227 68116 512 73546 8689 8920 2097 3274 6313 25678 6410 34276 66364 652 76603 10484 7194 2417 3274 6313 25678 6410 34276 66364 652 76603 10484<td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td></td>	Diroct invest- feilo ment in gevern- finland Long-torm credits contral ment in gevern- finland Other contral ment in gevern- finland Cong- contral ment in gevern- finland Long-torm credits trad ment in gevern- finland Other contral banks Total (3+4+5) capital Diroct ferm ferm credits Diroct ferm ment in gevern- abroad Long- torm credits Other lang- torm credits Other torm credits Diroct ferm ment in gevern- toredits Long- torm credits Other lang- torm 1 2 3 4 5 6 7 8 9 10 11 12 2317 848 21740 2419 33749 57909 444 61518 6166 6612 4051 2905 2013 24928 5960 37227 68116 512 73546 8689 8920 2097 3274 6313 25678 6410 34276 66364 652 76603 10484 7194 2417 3274 6313 25678 6410 34276 66364 652 76603 10484 <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td>	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

End of	Si	nort-torm lie	bilitios		S	nort-term	assets		Short-	Debt,	Debt		Debt
period	short- term lia	Short- sterm lia- bilities - of author- izodbanks	and other lia	·+17)	Bank of Finland's short- torm assets	Short- term as- sets of authoriz ed banks	and - other	Tetal (19+20 +21)	torm liabil- itios, net (18–22)	net (14+23)	service pay- ments	Of which: repay- ments	sorvice ratio
	15	16	17	18	19	20	21	22	23	24	25	26	27
1983	5705	39 4 4 3	16 181	61 328	11 842	29263	15915	57 0 20	4 308	48 997	10875	4914	12.2
1984	4 562	55695	17988	78245	22912	43 319	12804	79035	790	53050	11 586	4613	11.3
1985	4070	51 374	17354	72798	25 183	38775	18 155	82 113	-9314	47095	11 287	4808	10.5
1986 '	3455	56881	16 119	76 454	16613	54 498	18 381	89 493	-13038	46254	13 189	6018	12.8
1987 *	3 362	71 475	23 161	97997	31 134	53692	16255	101 082	-3085	55093	14662	6516	13.8
1985													
111	4240	59 370	19 120	82730	24770	44927	18 183	87880	-5 150	51 385	2296	1 011	8.6
IV	4070	5] 374	17354	72 798	25 183	38 775	18 155	82 113	-9314	47095	2769	1 197	10.4
1986*													
F	3659	50 424	18682	72765	21 647	40424	18037	80 109	-7343	48 765	3850	2118	15.6
11	3 4 9 9	52647	16965	73111	18 470	45237	18 213	81 921	-8 809	49 566	3288	1 176	14.2
	3 565	55602	18234	77 401	16 168	51 541	18 131	85841	-8 440	49859	2 309	834	8.7
IV	3 4 5 5	56881	16 119	76 454	16613	54 498	18 381	89 493	13 038	46254	3741	1 890	13.2
1987 °													
1	3 5 2 1	59 536	18 592	81 649	22 482	50 790	17830	91 102	-9453	49 106	3 3 3 1	1411	13.2
11	3490	67208	18830	89 528	28 680	54 691	18024	101 396		47248	4089	1 496	15.0
	3607	75 547	19 797	98952	29 291	60373	18 061	107725	-8773	48 897	2574	1 217	9.6
ſV	3362	71 475	23 161	97997	31 134	53692	16255	101 082	-3085	55093	4669	2392	17.0

6.4 FINLAND'S LONG-TERM FOREIGN LIABILITIES AND A	ASSETS, BY SECTOR, MILL. FIM

	Long-	term liabi	lities				Long-			
Corporate sector	Financial institu- tions	Central govern- ment	Locai govern- mont			Financial institu- tions	Central govern- ment	Other	Total (6+7+8 +9)	term liabil- ities, net (5—10)
1	2	3	4	5	6	7	8	9	10	11
30 0 8 2	8541	22184	710	61518	12791	2472	1 447	119	16829	44689
34012	13366	25440	728	73 546	17624	222	1 678	182	1 9706	53840
35709	13980	26 3 30	585	76 603	17102	859	1955	279	20194	56 409
35210	20169	27031	509	82920	19209	1 59 1	2 309	520	23628	59 292
33717	26665	28656	511	89 547	23 349	4 498	2653	869	31 369	58178
36248	13391	26358	633	76630	1 769 1	277	1877	250	20095	56 535
35709	13980	26 330	585	76 603	17102	859	1955	279	20194	56 409
34646	15090	25713	555	76004	16839	765	1970	321	19896	56108
35001	16847	27152	551	79 552	17906	849	2056	366	21177	58 375
34231	18554	27 397	541	80723	18462	1 360	2191	412	22 424	58 299
35210	20169	27031	509	82920	19209	1 591	2 309	520	23628	59 292
34716	21814	28179	481	85190	19717	3876	2 4 5 8	581	26631	58 559
35601	24004	27730	474	87809	21633	3936	2 465	659	28693	59116
35045	25209	26454	539	87247	22 308	4005	2519	744	29 577	57 670
33717	26665	28656	511	89 547	23349	4 498	2653	869	31 369	58178
	30 082 34 012 35 709 35 210 33 717 36 248 35 709 34 646 35 001 34 231 35 210 34 716 35 601 35 045	Corperate Finantical institu- tions 1 2 30 082 8 541 34 012 13 366 35 709 13 980 35 210 20 169 33 717 26 665 36 248 13 391 35 709 13 980 34 646 15 090 35001 16 847 34 231 18 554 35 210 20 169 34 716 21 814 35 601 24 004 35045 25 209	Corporate Financial institu- tions Contral govern- ment 1 2 3 30 082 8 541 22 184 34 012 13 366 25 440 35 709 13 980 26 330 35 210 20 169 27 031 33 717 26 665 28 656 36 248 13 391 26 358 35 709 13 980 25 713 35 5001 16 847 27 152 34 231 18 554 27 397 35 210 20 169 27 031 34 716 21 814 28 179 35 601 24 004 27 730 35 045 25 209 26 454	sector Institu- tions govern- ment govern- ment 1 2 3 4 30082 8541 22184 710 34012 13366 25440 728 35709 13980 26330 585 35210 20169 27031 509 33717 26665 28656 511 36248 13391 26358 633 35709 13980 26330 585 34646 15090 25713 555 35001 16847 27152 551 34231 18554 27397 541 35210 20169 27031 509 34716 21814 28179 481 35601 24004 27730 474 35045 25209 26454 539	Corporate Financial institu- tions Contral govern- ment Local govern- mont Total govern- mont 1 2 3 4 5 30 082 8 541 22 184 710 61 518 34 012 13 366 25 440 728 73 546 35 709 13 980 26 330 585 76 603 35 210 20 169 27 031 509 82 920 33 717 26 665 28 656 511 89 547 36 248 13 391 26 358 633 76 630 35 709 13 980 25 713 555 76 004 35 709 13 980 25 713 555 76 004 35 709 13 980 25 713 555 76 004 35 709 13 980 25 713 555 76 004 35 210 20 169 27 031 509 82 920 34 716 21 814 28 179 481 85 190 35 601 24 004 27 730 474 87 8	Corporate Financial sector Control institu- tions Local govern- ment Total (1+2+3+4) Corporate sector 1 2 3 4 5 6 30082 8 541 22 184 710 61 518 12 791 34 012 13 366 25 440 728 73 546 17 624 35 709 13 980 26 330 585 76 603 17 102 35 210 20 169 27 031 509 82 920 19 209 33 717 26 665 28 656 511 89 547 23 349 36 248 13 391 26 358 633 76 630 17 691 35 709 13 980 26 330 585 76 603 17 102 34 646 15 090 25 713 555 76 004 16 839 35 210 20 169 27 031 509 82 920 19 209 34 646 15 090 25 713 555 76 004 16 839 35 210 20 169 27 031 509	Corporate Financial sector Contral institu- tions Local govern- ment Total (1+2+3+4) Corporate Financial sector Financial institu- tions 1 2 3 4 5 6 7 30082 8 541 22 184 710 61 518 12 791 2 472 34 012 13 366 25 440 728 73 546 17 624 222 35 709 13 980 26 330 585 76 603 17 102 859 35 210 20 169 27 031 509 82 920 19 209 1 591 33 717 26 665 28 656 511 89 547 23 349 4498 36 248 13 391 26 358 633 76 603 17 691 277 35 709 13 980 26 330 585 76 603 17 102 859 34 646 15 090 25 713 555 76 004 16 839 765 35 001 16 847 27 152 551 79 552 17 906 849	Corporato Financial institu- tions Contral govern- ment Local Jovern- ment Total (1+2+3+4) Corporato Sector Financial institu- tions Contral govern- ment 1 2 3 4 5 6 7 8 30082 8541 22184 710 61518 12791 2472 1447 34012 13366 25440 728 73546 17624 222 1678 35709 13980 26330 585 76603 17102 859 1955 35210 20169 27031 509 82920 19209 1591 2309 33717 26665 28656 511 89547 23349 4498 2653 36248 13391 26358 633 76630 17691 277 1877 35709 13980 26330 585 76004 16839 765 1970 34646 15090 25713 555 76004 16839 765 <t< td=""><td>Corporate Financial sector Contral government Local government Total (1+2+3+4) Corporate Financial sector Contral institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- instono instono institu- institu- institu- institu- instono institu-</td><td></td></t<>	Corporate Financial sector Contral government Local government Total (1+2+3+4) Corporate Financial sector Contral institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- institu- 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7. FOREIGN TRADE¹ 7.1 EXPORTS, IMPORTS AND THE TRADE BALANCE, MILL FIM

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

During	Exports,	imports,	Balanco	Period	Vek	me	Unit	value	Terms of trade
period	f.o.b.	c.i.f.	(1-2)		Exports	Imports	Exports	Imports	Taao
	1	2	3		1	2	3	4	5
1983	69692	71 528	-1836	1983	104	98	127	125	101
1984	80904	74682	6222	1984	114	98	134	131	102
1985	84028	81 520	2 508	1985	115	104	138	135	102
1986	82 579	77 60 1	4978	1986	116	110	135	121	111
1987 '	85315	82797	2518	1987*	117	119	138	119	116
1987 *				1985					
Jan.	6712	6706	6		122	106	139	138	101
Feb.	6375	5731	644		113	100	138	135	102
March	7360	7328	32	IV	117	113	135	133	101
April	7285	6 500	785						
May	7007	7154	-147	1986					
June	7444	7090	354	1	113	110	134	129	103
July	6620	6 4 5 8	162	II .	104	90	133	122	109
Aug.	6601	6943	-342	111	116	119	138	120	116
Sept.	8042	7080	962	IV	128	115	136	121	112
Oct.	7894	7317	577						
Nov.	6966	7 502	-536	1987*					
Dec.	7009	6988	21	1	114	113	136	120	113
					120	120	137	119	115
1988 .				JII	116	116	139	121	115
Jan.	6885	6883	2	IV	119	126	140	119	117

7.3 FOREIGN TRADE BY MAIN GROUPS, MILL FIM

During period	Exports by industries, f.o.b.					Imports by use of goods, c.i.f.				
	Wood industry products	Paper industry products	Chomical industry products	Motal and engineering industry products	Other goods	Raw materials (excl. crude oil)	Crude oil, fuels and lubricants	Finished goods		Other
								investment goods	Consumer goods	goods
	1	2	3	4	5	6	7	8	9	10
1983	6944	19327	8524	20211	14686	32 209	17554	10860	10572	333
1984	7145	23 5 7 3	10176	22 998	17012	35162	16900	10993	11454	173
1985	6728	25030	9803	24412	18055	38676	1 7770	11675	12967	432
1986	6947	24600	7858	26115	17059	39 292	10070	12898	15069	272
1987 *	7449	26691	7823	26347	17005	41 066	9623	14074	17412	622
1987 [.]										
Jan.	584	2040	691	2073	1 324	3 2 7 0	955	1 080	1255	146
Feb.	512	2077	653	1825	1 308	3052	301	928	1 427	23
March	619	2276	599	2 2 2 8	1 638	3 571	649	1 448	1619	41
April	616	2352	574	2 2 3 6	1 507	3 407	461	1218	1 407	7
May	746	2164	749	2089	1 259	3 5 5 4	886	1 209	1 467	38
June	732	2097	599	2 526	1 490	3 538	915	1151	1 327	159
July	526	2271	660	1 983	1180	3125	796	1 197	1317	23
Aug.	545	2191	669	1849	1 347	3 292	1137	1012	1 471	31
Sept.	666	2 496	688	2629	1 563	3 503	964	1 047	1 547	19
Oct.	670	2 500	624	2 493	1 607	3634	845	1151	1 579	108
Nov.	664	2168	563	2077	1 494	3713	720	1 436	1622	11
Dec.	569	2059	754	2339	1 288	3 407	994	1197	1 374	16
1988 ·										
Jan.	569	2472	623	2021	1 200	3 486	780	1 270	1 340	7

7.4 FOREIGN TRADE BY REGIONS AND COUNTRIES

Region and		Export	s, f.o.b.			Impor	18, c.i.f.	
country	1	986		987 * y-December	1	986		987 • y-December
	Mill. FIM	Porcontago sharo	MiH. PM	Percentage change from the corre- sponding period on the provious your	Mill, FIM	Percentage share	Mill, Fim	Percentage change from the corre- sponding period of the previous year
	1	2	3	4	5	6	7	8
All OECD countries	57753	69.9	63184	9.4	57905	74.6	63076	8.9
OECD Europe	50181	60.8	55667	10.9	48 446	62.4	52211	7.8
Of which:								
Austria	781	0.9	951	21.8	1015	1.3	1 066	5.0
Belgium and Luxembourg	1410	1.7	1 526	8.3	1 899	2.4	2138	12.6
Denmark	3321	4.0	3 320	0.0	2181	2.8	2343	7.4
France	3691	4.5	4 497	21.8	3 4 5 9	4.5	3 5 5 3	2.7
Federal Republic of Germany	8016	9.7	9335	16.5	13159	17.0	14447	9.8
Italy	1741	2.1	2182	25.3	3256	4.2	3620	11.2
Netherlands	2855	3.5	3060	7.2	2369	3.1	2 5 5 7	8.0
Norway	3715	4.5	4009	7.9	1714	2.2	1819	6.2
Spain	877	1.1	1 090	24.3	873	1.1	920	5.4
Sweden	12228	14.8	12754	4.3	10559	13.6	10703	1.4
Switzerland	1 331	1.6	1541	15.8	1 579	2.0	1665	5.4
United Kingdom	8667	10.5	9734	12.3	5056	6.5	5906	16.8
Other OECD	7571	9.2	7517	-0,7	9 4 5 9	12.2	10864	14.9
Of which:								
Canada	910	1.1	971	6.7	410	0.5	429	4.7
Japan	1 266	1.5	1 206	-4.7	5022	6.5	5862	16.7
United States	4 4 8 0	5.4	4 407	-1.6	3722	4.8	4 3 3 6	16.5
CMEA countries Of which:	18176	22.0	14620	-19.6	14210	18.3	14092	-0.8
Soviet Union	16774	20.3	13175	-21.5	11933	15.4	11 909	-0.2
Developing countries	5736	6.9	6199	8.1	4945	6.4	4937	0.2
OPEC countries	1 437	1.7	1 527	6.2	1022	1.3	802	-21.5
Other	4 299	5.2	4672	8.7	3923	5.1	4135	5.4
Other countries	914	1.1	1311	43.4	539	0.7	693	28.5
TOTAL	82 579	100.0	85315	3.3	77 599	100.0	82 797	6.7
Of which:								
EEC countries	31 657	38.3	35967	13.6	33 396	43.0	36785	10.2
EFTA countries	18193	22.0	1 9 396	6.6	14979	19.3	15358	2.5

¹The trade values and volumes for December 1987 and January 1988 differ from those in the official statistics. For details, see Notes and Explanations on page S26.

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8. DOMESTIC ECONOMIC DEVELOPMENTS 8.1 SUPPLY AND USE OF RESOURCES, MILL FIM, 1985 PRICES [seasonally adjusted figures]

Period	Consumption expenditure			tmont	Change in stocks,	Domestic domand	Exports	Imports	GDP (6+7–8)
-	Private	Public	Private	Public	inci. statistical discropancy	(1+2+3+4+5)			
	1	2	3	4	5	6	7.	8	9
1983	171330	63113	69001	10467	-2704	311207	92001	87959	315249
1984	176038	64872	67 584	10202	—1 327	317369	96993	88 857	325 505
1985	181664	68218	69 599	10453	3610	333 544	98173	94893	336824
1986*	188823	70 398	68720	10962	5467	344 370	99365	98 760	344 975
1987 *	199032	72973	72371	11381	7609	363 366	101 357	107260	357 463
1985									
181	45833	17146	16697	2 790	—47 1	81 995	24606	22842	83759
IV	46045	17322	17675	2643	2972	86657	23 336	24692	85301
1986*									
1	46391	17383	17239	2664	2166	85843	24933	25701	85075
11	47215	17325	16610	2 3 2 2	-193	83280	22126	20727	84678
111	47 597	177 72	17613	2965	2467	88414	26061	27131	87344
IV	47620	17914	17258	2804	998	86 594	26154	25004	87744
1987 '									
1	48719	17959	17662	2764	338	87443	24664	24280	87827
-	49 524	18158	18304	2 5 2 4	3811	92320	26 504	28 3 7 5	90449
	49 908	18359	17894	3190	1 572	90924	25767	27463	89228
IV	50882	18497	18 508	2903	3 303	94093	24 4 4 0	27144	91 389

8.2 VOLUME OF INDUSTRIAL PRODUCTION, 1985=100 (1980 WEIGHTS) (seasonally adjusted figures)

S20

Period	2-4	2	3	industry (SIC): 331,341	37,38		4
-	Total industry	Mining and quarrying	Manufacturing	Wood and paper industries	Metal and engineering industries	Other manufacturing	Electricity gas and water
	(100.0)	(1.5)	(89.5)	(20.5)	(28.3)	(40.7)	(9.0)
	١	2	3	4	5	6	7
1983	91.9	92.8	92.5	94.2	87.8	95.5	86.0
1984	96.1	96.3	96.6	101.7	92.5	97.6	91.8
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986*	100.8	101.7	100.8	101.8	101.3	99.9	100.1
1987 *	105.0	79.0	105.2	107.9	106.2	103.0	108.0
1987 '							
lan.	101.5	90.8	101.3	106.3	99.9	99.2	109.3
Feb.	104.6	97.5	105.0	108.5	104.4	101.4	102.8
March	108.9	96.6	106.5	107.0	107.2	101.9	111.7
April	105.2	93.7	103.8	108.9	103.5	103.3	104.5
May	107.8	74.7	106.0	108.7	107.3	105.9	108.1
lune	107.0	52.4	106.4	106.0	105.9	106.0	109.2
July	109.1	74.6	107.7	107.7	106.5	105.7	107.7
Aug.	105.6	81.8	105.7	108.4	108.4	104.9	108.9
Sept.	103.7	77.8	104.6	110.1	108.2	103.7	109.0
Oct.	102.8	69.4	106.0	109.8	107.2	102.8	107.5
Nov.	100.8	72.5	103.6	108.4	107.4	100.5	109.5
Dec.	102.7	67.3	105.5	105.4	108.4	100.1	108.4
1988*							
Jan.	106.4	64.7	109.6	112.9	110.4	105.4	94.2

8.3 INDICATORS OF DOMESTIC SUPPLY AND DEMAND, 1985=100 (seasonally adjusted figures)

Peried	Volume of wholesale	Volume of retail	Volume of construction		Of which:		Imports of investment	Monthly indicator	
	trade	trade	of buildings	Rosidontial byildings	Industrial buildings	Other bvildings	goods	of GDP	
	1	2	3	4	5	6	7	8	
1982	96.7	93.6	98.8	105.1	114.9	87.3	95.0	9 1.7	
1983	97.6	94.4	108.1	107.7	123.0	105.1	100.9	94.3	
1984	97.2	96.8	101.7	104.1	112.8	96.3	98.6	96.9	
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1986 *	104.7	102.5	94.1	88.4	100.1	99.5	105.2	101.8	
1986*									
Nov.	105.4	101.2						102.9	
Dec.	101.6	103.1	•••	• •	•••	••		103.3	
	106.0	102.5	99.2	89.6	109.5	106.0	107.4	103.2	
IV	104.9	103.1	100.8	90. 1	107.4	109.8	120.4	103.3	
1 987 *									
Jan.	109.3	104.6						102.7	
Feb.	108.8	106.4						104.5	
March	108.5	105.5						106.0	
April	115.9	111.3						106.0	
May	111.0	106.9						106.5	
June	114.6	112.2						105.8	
July	110.8	107.9						105.8	
Aug.	110.5	106.4						106.4	
Sept.	110.6	109.0						106.4	
Oct.	117.1	107.4				• •		106.2	
Nov.	113.9	108.9				• •		106.1	
	108.9	105.5	93.3	89.1	91.7	94.3	112.4	104.4	
11	113.8	110.1	93.1	96.5	106.9	100.0	122.0	106.1	
	110.7	107.7	89.9	78.3	101.1	100.6	100.5	106.2	

8.4 WAGES AND PRICES, 1985=100

Period	index of wage and		E	By sectors	B		Con- sumer price	Basic price index	By e	rigin	Produc- or price index	By mari		Build- ing cost
	salary oarn- ings		Of which Manufac turing (SIC 3)			Non- profit insti- tutions		for domostic supply		impert- ed goods		Export-		index
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1983	84.3	84.0	85.2	86.4	84.0	85.8	88.8	90.8	90.0	93.5	90.8	91.3	90.7	89.2
1984	92.2	92.0	92.9	92.6	92.8	92.1	95.1	95.7	95.0	97.8	96.0	98.0	95.3	94.6
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986 ¹	107.0	106.7	106.2	106.7	108.1	107.0	102.9	97.0	98.6	91.0	96.5	96.7	96.4	104.3
1 987 1	114.5	114.4	113.5	115.9	114.0	116.2	107.2	97.9	100.2	89.3	97.3	98.1	96.8	109.1
1 986 1														
IV	109.1	109.3	107.9	107.6	109.8	108.1	103.9	96.2	98.0	89.5	95.5	97.0	94.8	105.5
1 987 1														
Feb.							105.7	97.0	99.0	89.8	96.4	97.4	95.9	106.9
March		• •			• •		106.3	97.0	99.2	89.2	96.4	97.1	96.1	108.0
April	• •				• •	• •	106.8	97.4	99.6	89.3	96.7	97.6	96.2	108.7
May							106.9	97.5	99.9	89.0	96.8	97.8	96.3	108.9
June						• •	107.3	97.7	100.0	89.2	96.9	97.8	96.4	109.1
July							107.2	98.2	100.4	90.3	97.4	98.2	97.0	109.4
Aug.		• •			• •	• •	107.5	98.2	100.5	89.9	97.4	98.2	97.0	109.6
Sept.				• •			108.1	98.4	100.8	89.4	97.9	98.7	97.5	109.9
Oct.							108.3	98.7	101.3	89.2	98.2	99.0	97.8	110.0
Nov.			••			••	108.1	98.7	101.6	88.3	98.4	99.4	97.9	110.8
Dec.	• •					• •	108.4	98.9	102.0	87.7	98.6	99.6	98.3	110.9
	111.4	111.2	110.5	111.9	111.8	112.3	105.8	96.9	99.0	89.6	96.3	97.3	95.9	107.2
	115.4	115.2	114.5	117.1	114.6	117.4	107.0	97.5	99.8	89.2	96.8	97.7	96.3	108.9
	115.0	114.8	113.8	117.1	114.7	117.5	107.6	98.3	100.6	89.9	97.6	98.4	97.2	100.7
IV	116.4	116.6	115.1	117.3	114.9	117.8	108.3	98.8	101.6	88.4	98.4	99.2	98.0	110.6
1988 ¹														
Jan.							109.7	99.3	102.4	87.8	99. 1	99.9	98.8	111.8
Feb.							110.0	99.6	102.7	87.9	99.5	100.1	99.2	111.9

¹Preliminary figures for columns 1–6.

8.5 LABOUR, EMPLOYMENT AND UNEMPLOYMENT (seasonally adjusted figures)

Period	Labour force partici-	Labour force	Total employ-	By indust	rial status		By is	dustry		Unem- ployed	Unem- ployment
	pation rate among 15–74 vear olds		ment (4+5) = (6+7+8+9)	Self- employed	Wage and salary eamors	Agri- culture and forestry	Industry	Con- struction	Sorvico indus- trios	-	rate
	~				1000 pe	rsons					%
	۱	2	3	4	5	6	7	8	9	10	11
1983	68.7	2 527	2 390	386	2004	303	606	183	1 298	138	5.5
1984	68.8	2 5 4 6	2414	378	2035	294	600	183	1 337	133	5.2
1985	69.2	2 567	2437	361	2076	280	597	178	1 380	130	5.0
1986	69.1	2 568	2431	359	2071	266	589	185	1 391	138	5.4
1987	68.6	2 554	2 423	372	2051	251	569	184	1419	130	5.1
1987											
Jan.	68.8	2 560	2416	374	2042	262	566	189	1 399	145	5.7
Feb.	68.7	2554	2 4 2 7	374	2053	251	576	185	1415	127	5.0
March	69.1	2 5 7 0	2 437	373	2064	264	570	184	1 420	133	5.2
April	68.9	2564	2 4 3 7	370	2066	259	573	187	1417	128	5.0
May	68.4	2543	2410	360	2050	243	561	181	1 424	133	5.2
June	68.4	2544	2418	370	2048	250	567	189	1412	126	5.0
July	68.5	2 5 4 8	2 4 2 2	370	2052	245	585	182	1410	126	4.9
Aug.	69.1	2 569	2441	366	2075	247	571	183	1 440	128	5.0
Sopt.	68.5	2 548	2 4 2 0	365	2055	240	573	176	1 430	129	5.1
Oct.	68.5	2551	2 4 2 2	378	2045	254	575	184	1 408	128	5.0
Nov.	68.4	2 548	2418	382	2035	251	557	180	1 430	130	5.1
Dec.	68.3	2 5 4 5	2414	382	2032	249	557	182	1 425	131	5.1
1988											
Jan.	68.7	2 559	2 439	388	2051	252	578	195	1414	120	4.7

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

During					Revenue						Expen	diture	
period	Direct taxes	indirect taxes		Other revenue	Rovonue before financiai trans- actions {1+2+3+4}	Redemp- tions of loans granted by the state	Rev- enue before ber- rowing (5+6)	Bor- rowing	Total revenue (7+8)	sump- tion	Trans- fors and ubsidios	Of wi Local govern ment	Other - de-
	1	2	3	4	5	6	7	8	9	10	11	12	13
1982	17160	34665	360	6997	59182	1168	60 3 50	8165	68515	18163	35 4 4 4	13601	21 1 29
1983	19 565	36183	531	8284	64 563	1854	66416	11378	77 794	20984		15717	22817
1984	22 5 2 6	42737	598	9711	75572	1 894	77 466	10752	88218	22155	44333	18444	24836
1985	25750	47 578	546	10415	84 290	2071	86361	11189	97550	24835	49 269	21 183	26866
1986	28079	51 733	323	11 640	91 774	2 209	93983	14744	108727	26354	52845	23215	28131
1986													
Nev.	2349	4370	17	976	7711	288	7999	747	8746	2 2 3 3	4958	2186	2629
Dec.	2947	5777	30	806	9 560	368	9927	1 673	11600	2 426	5259	2006	3012
1987													
Jan.	1 434	3163	23	906	5526	46	5571	2853	8 424	2 4 2 4		1 876	
Fob.	2023	5181	29	791	8024	88	8112	260	8373	2226	5049	1941	
March	2671	4132	17	1172	7993	79	8072	2 5 3 0	10601	2 268	4 5 5 5	2196	2141
April	2957	4632	15	1 289	8893	59	8952	335	9288	2313	5172	2 464	
May	2 4 50	3 390	84	1014	6938	372	7310	2 482	9792	2440	5763	2131	3441
June	2561	5243	28	1 092	8925	191	9115	455	9570	2468	4636	2630	
Juty	2941	5335	49	603	8929	95	9023	619	9642	2923	4775	2148	
Aug.	2935	4880	37	1 209	9060	343	9402	1143	10546	2331	5003	2138	
Sept.	2461	4237	40	968	7706	144	7850	619	8 470	2424	4341	2131	2102
Oct.	2 480	4 360	38	1 025	7904	119	8023	2295	10318	2 505	4713	2 2 2 7	-
Nov.	2 5 4 5	5465	29	1 024	9062	266	9329	2 397	11726	2 366	5746	2336	3 306

During				xpenditur					Financia	i balance	
period ·	Fixed invest- ment	Other expondi- ture	Expendi- ture before finan- cial trans- actions (10+11+ 14+15)	Lending and other finan- cial invest- ment	Expendi- ture before redemp- tions of state debt (16+17)	Re- demp- tions of state debt	Total expendi- ture, (18+19)	Rev- enue sur- plus (5—16)	Net bor- rowing require- mont (7—18)	Gress ber- rowing require- ment (7—20)	Cash sur- plus (9–20)
	14	15	16	17	18	19	20	21	22	23	24
1982	4964	2 478	61 049	4 4 5 7	65 506	2751	68 257	-1867	-5156	-7907	258
1983	5454	4095	69944	4999	74943	3939	78881	-5381	-8 527	-12465	-1088
1984	5455	4220	76162	4717	80878	5552	86 430	-590	-3412	-8964	1 788
1985	5700	4936	84739	4982	89722	7682	97 404	-449	-3 361	-11043	145
1986	6111	5058	90 368	4913	95281	10541	105822	1 406	<u> </u>	-11839	2905
1986											
Nov.	534	196	792 1	392	8313	1163	9 476	-210	-314	_1 477	-730
Dec.	747	400	8831	557	9 388	121	9 509	728	539	418	2091
1987											
Jan.	434	771	8213	268	8 482	1 323	9805	-2688	-2910	-4233	-1381
Feb.	452	418	8144	359	8 503	764	9267	-120	-390	-1154	-894
March	597	697	8118	492	8610	1886	10497	-125	-539	-2425	104
April	526	684	8695	404.	9098	871	9969	199	-146	_1017	-682
May	534	678	9416	469	9885	820	10705	-2478	-2575	-3 395	-913
June	640	255	7999	561	8 560	1314	9874	925	555	759	304
July	643	284	8625	752	9377	190	9 566	304	-353	-543	76
Aug.	542	294	8170	479	8649	1410	10059	890	754	657	487
Sept.	648	137	7 551	552	8102	320	8 423	156		572	47
Oct.	644	321	8184	446	8629	620	9249	-280	606	-1226	1 069
Nov.	550	199	8861	407	9267	252	9519	202	62	—1 90	2 207

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NOTES AND EXPLANATIONS TO THE STATISTICAL SECTION

GENERAL

Source

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

Symbols used

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

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

NOTES AND EXPLANATIONS TO TABLES

1 THE BALANCE SHEET OF THE BANK OF FINLAND

Table 1.2 Domestic financial sector. Term claim on deposit banks (Column 13) = term credits (from December 1986 to July 1987) + bank certificates of deposit held by the Bank of Finland (since March 1987). Other liabilities to financial institutions, net (Column 17) = capital import deposits + other liabilities to financial institutions bonds and debentures - other claims on financial institutions. Corporate sector. Claims in the form of special financing (Column 19) = export bills + newexport credits + financing of domestic deliveries. Special deposits, net (Column 20) = deposits for investment and ship purchase + capital import deposits + export deposits + other liabilities to corporations - bonds - other claims on corporations.

2 THE BANK OF FINLAND'S MONEY MARKET OPERATIONS AND THE FORWARD EXCHANGE MARKET

Table 2.1 Matured certificates of deposit, net (Column 3) = matured bank certificates of deposit held by the Bank of Finland - matured certificates of deposit issued by the Bank of Finland.

Table 2.3 Bank CDs held by the Bank of Finland (Column 2) include term credits from December 1986 to July 1987. Holdings of CDs issued by the Bank of Finland (Column 5) include term liabilities from February to July 1987.

3 RATES OF INTEREST

Table 3.1 HELIBOR (<u>Helsinki</u> Interbank Offered Rate) (Columns 2–5): The HELIBOR rate for each maturity is calculated by the Bank of Finland as the average of the offered rates for certificates of deposit quoted daily at 1 p.m. by the five largest banks. Long-term unregulated market rate (Columns 6 and 7): The long-term unregulated market rate is calculated by the Bank of Finland as the monthly average of the offered rates for taxable and fixed-rate bonds quoted by the five largest banks.

Table 3.2 The rates shown are based on the lending rates quoted for the respective currencies in the Euromarket.

Table 3.3 The covered Eurodollar rate is a computed rate of interest for the markka obtained by adding the difference between the forward selling rate and the spot selling rate for the U.S. dollar expressed as an annual rate of interest to the Eurodeposit rate for the dollar. The rates shown are based on daily guotations at noon by two banks.

Table 3.4 Lending. New credits (Columns 1-4): the rates of interest on new credits drawn during the month are average monthly rates weighted by loan amounts, whereas annual rates are averages of monthly observations. Deposits. The rates of interest applied to deposit accounts (Columns 6-8) are the rates of interest applied to standard tax-exempt deposit accounts as agreed upon between banks. The average rate of interest on the stock of regulated deposits (Column 9) is the average rate of interest weighted by the deposit amounts at the end of period, where the stock of deposits comprises cheque accounts, postal giro accounts, deposit accounts with a cheque facility, savings and ordinary deposit accounts, other time deposit accounts and taxable investment accounts. The average rate of interest on unregulated deposits (Column 10) is the average rate of interest weighted by the amounts in the period. Unregulated deposits include, inter alia, sales of certificates of deposit, promissory notes and bonds as well as corporate deposits at market rates.

Table 3.5 *Rates at issue* on bonds and debentures (Columns 1 and 2) are the average rates of interest weighted by issue amounts – in the case of government bonds by sales amounts – on ordinary bonds, debentures and other bonds (excl. zero coupon loans, bonds with equity warrants and convertible debentures) issued during the period. Secondary market rates. The rate of interest for taxable public issues (Column 3) is the effective annual yield, calculated as the arithmetic mean, on fixed-rate ordinary bonds, debentures or other bonds (excl. zero coupon loans, bonds with equity warrants and convertible debentures). The Bank of Finland calculates the yields once a week on the basis of the trading quotations of the Helsinki Stock Exchange for loans with a remaining maturity of between 3 and 6 years. The rate of interest for taxfree public issues (Column 4) is the yield on fixed-rate public bonds with a remaining maturity of between 4 and 5 years. Monthly observations are the averages of weekly observations and annual observations the averages of monthly observations.

4 RATES OF EXCHANGE

Table 4.2 The weights of the Bank of Finland currency index (Column 1) are moving averages of the shares of countries in Finland's merchandise export and import trade. The index comprises 12 convertible currencies. The index values are based on the Bank of Finland's daily quotations at noon. The weights of the payments currency index (Column 2) are moving averages of the shares of payments currencies in Finland's trade. The index comprises 12 convertible currencies. The weights of the MERM index (Column 3) are fixed 1977 weights computed on the basis of the IMF's world trade model. Fourteen currencies are included in this index.

5 OTHER DOMESTIC FINANCING

Table 5.1 Source: The Central Statistical Office of Finland. The public comprises households and non-profit institutions, enterprises (excl. financial institutions) and local government. Domestic foreign-currency deposits are included in the figures. Time deposits (Column 2) consist of tax-exempt time deposits held by the public. Investment accounts (Column 3) are taxable time deposits held by the public. For the definition of unregulated deposits (Column 6), see the explanation under Table 3.4. Since the beginning of 1987, the figures for banks' holdings of certificates of deposit issued by other banks have been netted out. Netting out is done by the Bank of Finland.

 Table 5.2
 Source: The Central

 Statistical Office of Finland. The public

S25

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. claims on banks' foreign branches) the Bank of Finland's foreign liabilities banks' foreign liabilities (incl. liabilities to banks' foreign branches). Domestic credit. Claims on the central govern-ment, 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 intermediated by banks from state funds. 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 + capital accounts of deposit banks + unclassified assets and liabilities of deposit banks, net (bank debentures, bank CD's held by the public and other unregulated wholesale deposits). M1 (Column 6) = notes and coin in circulation - till money held by banks + cheque and postal giro account deposits held by the public. M₂ (Column 7) = M₁ + quasi-money (time deposits held by the public, incl. deposits with the Bank of Finland).

Table 5.4 Source: State Treasury Office. Foreign debt. Other bonds and debentures (Column 2) are so-called private placings. Long-term promissory notes (Column 3) are bank loans. Outstanding lending (Column 10) com-prises the stock of central 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 cheaue and postal giro accounts, as well as placements of central government cash funds. The main part of the latter is reserved for covering transferable allocations budgeted in previous years (for details, see the article "State Borrowing and Cash Management" by Pekka Laajanen and Pekka Saarinen in the August 1987 issue of the Bulletin). Transferable allocations amounted to FIM 7.7 billion at the end of 1986.

 Table 5.6
 Turnover. Source: The

 Helsinki Stock Exchange. Share prices.
 Source: Union Bank of Finland Ltd.

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.

Table 6.2 Columns 1-8: Net change in long-term liabilities. Columns 9-13: Net change in long-term assets. Portfolio investment in Finland (Column 2) and abroad (Column 10): Secondary market transactions in securities and share issues. Long-term credits (Columns 3-6): Financial loans, import credits and leasing credits. Others (Column 5): Long-term credits of enterprises, financial institutions other than authorized banks and local government. Imports of other long-term capital (Column 7): Finland's subscriptions to international financial institutions paid in the form of promissory notes. Exports of other long-term capital (Column 12) = financial loans abroad + development credits + purchases of real estate and other acquisitions by private persons + Finland's subscriptions to international financial institutions.

Table 6.3 Net foreign debt (Columns 1-24) at the end of a period is classified in the same way as the corresponding data on changes in the capital account (Table 6.2). The items included in net foreign debt have been translated into markkaa using the spot rates for each date. Thus the figures include the impact of changes in exchange rates. Debt service payments (Column 25): the total of net payments of interest, dividends and remunerations relating to long- and short-term foreign liabilities and assets plus net repayments relating to long-term foreign liabilities and assets. Repayments do not include early repayments of loans, repatriations of equity capital included under direct investment, repurchases of shares included under portfolio investment (since 1986), repayments of the Bank of Finland's reserve tranche and oil facility credits, or repayments of rouble-denominated assets included under loan assets. The debt-service ratio (Column 27) = service charges on net foreign debt as a percentage of current account earninas

Table 6.4 All direct investments have been placed under the corporate sector (Columns 1 and 6). Other (Column 9) consists mainly of long-term assets of private persons.

The sectoral figures for short-term foreign liabilities and assets correspond to the figures shown in Columns 15–23 of Table 6.3.

7 FOREIGN TRADE

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

On January 1, 1988, the new international harmonized commodity description and coding system was introduced in the compilation of the official foreign trade statistics. Because of the changeover, the trade value figures in the customs statistics are exceptionally high for December 1987 and exceptionally low for January 1988 as compared with the old system. For the sake of comparability, the customs statistics figures for December 1987 and January 1988 have been adjusted in the Bulletin to comply with the old system. For this reason the total trade values for 1987 as a whole also differ from the customs statistics. The Bulletin follows the same practice as in the balance of payments statistics. Adjustments have been made to all value and volume figures for exports and imports. Unit values correspond to those of the customs statistics. The adjustments have been made by the Economics Department of the Bank of Finland.

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

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

8 DOMESTIC ECONOMIC DEVELOPMENTS

Tables 8.1-8.5 Source: Central Statistical Office of Finland. Seasonal adjustment is carried out by the Bank of Finland.

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

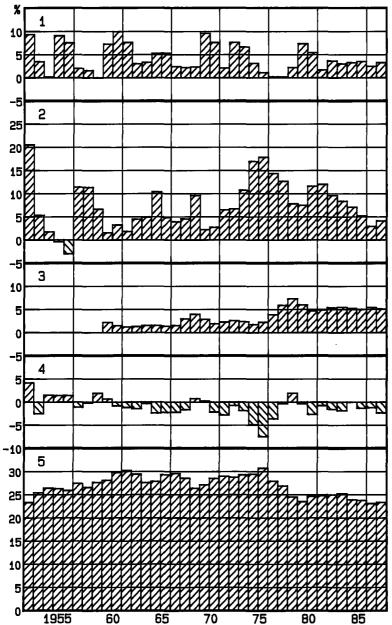
Table 8.4 The consumer price index (Column 7) was revised as from January 1988. Both the weights and the methods of calculation were changed (see the item in the March 1988 issue of the Bulletin). The base year of the new CPI is 1985, while the base year of the index shown until end-1984 is 1981.

Table 8.6 Source: Ministry of Finance.

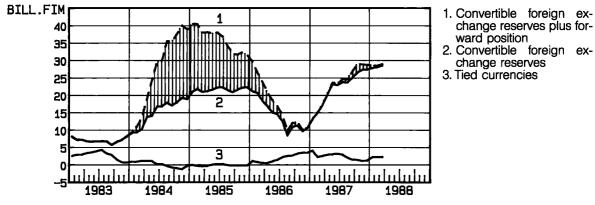
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28.	Western trade: prices and terms of trade	S38
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1. LONG-TERM INDICATORS

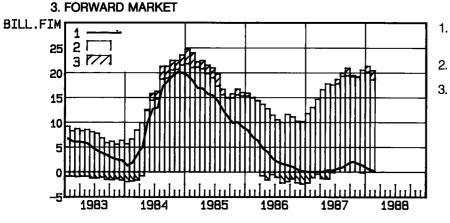


- 1. GDP, change in volume from the previous year, per cent
- 2. Consumer prices, change from the previous year, per cent
- 3. Unemployment rate, per cent
- 4. Current account, as a percentage of GDP 5. Fixed investment, as a per-
- centage of GDP

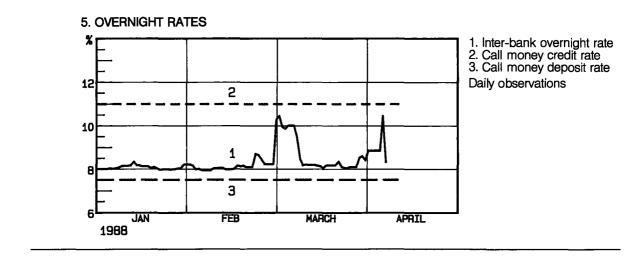


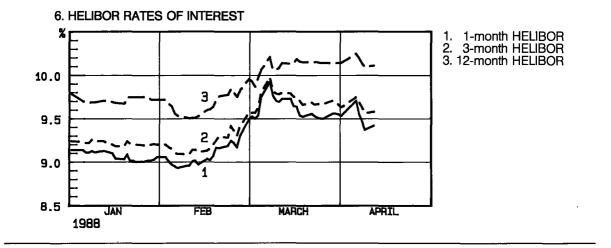
2. THE BANK OF FINLAND'S FOREIGN EXCHANGE RESERVES AND FORWARD POSITION

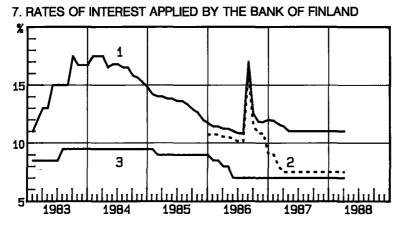
- 1. Forward exchange purchased by the Bank of Finland from banks 2. Forward exchange sold by companies to banks
 - 3. Forward exchange sold by foreign banks to banks



- 4. BANKS' CENTRAL BANK POSITION MILL.FIM 10000 1 5000 0 ۱ 2 -5000 11/11 -10000 1985 1986 1987 1988 1983 1984
 - 1. Gross debt to the Bank of Finland
 - 2. Net debt to the Bank of Finland (excl. cash reserve deposits)

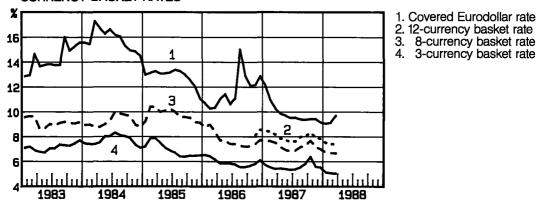






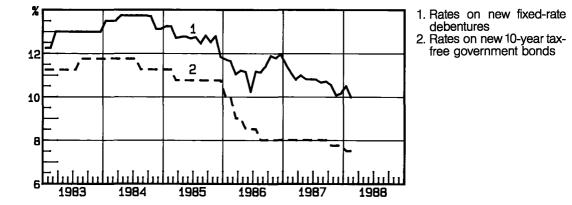
Call money credit rate
 Call money deposit rate
 Base rate

End-of-month observations

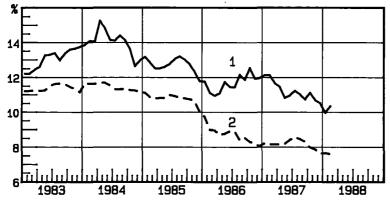


8. 3-MONTH COVERED EURODOLLAR RATE AND 3-MONTH CURRENCY BASKET RATES

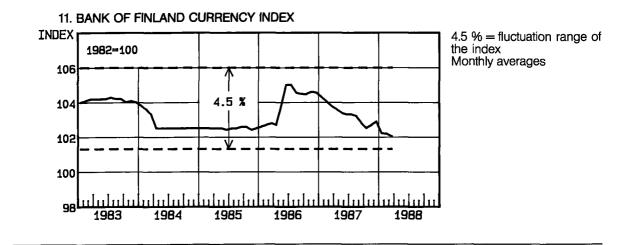
9. RATES ON NEW ISSUES OF BONDS AND DEBENTURES



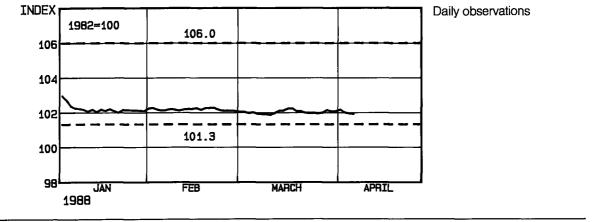
10. SECONDARY MARKET RATES ON BONDS AND DEBENTURES



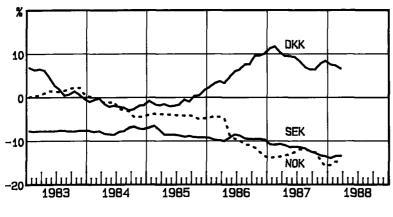
- 1. Secondary market rate on (3–6 year) fixed-rate debentures
- 2. Secondary market rate on (9–10 year) taxfree government bonds



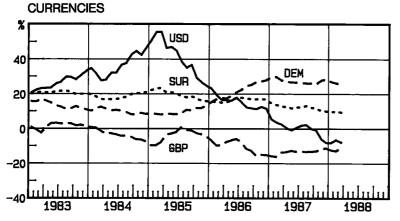
12. BANK OF FINLAND CURRENCY INDEX



13. CHANGES IN THE EXCHANGE RATES OF SELECTED NORDIC CURRENCIES



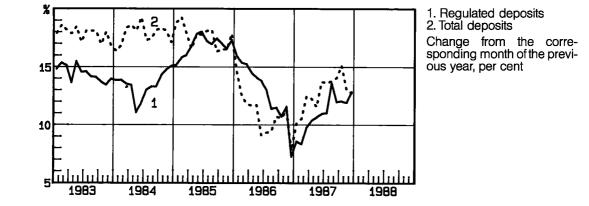
Monthly changes in markka selling rates calculated from the average rates for January 1982



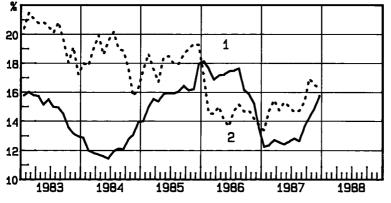
14. CHANGES IN THE EXCHANGE RATES OF SELECTED MAJOR

Monthly changes in markka selling rates calculated from the average rates for January 1982

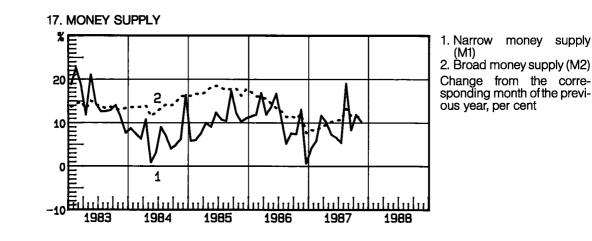
15. BANK DEPOSITS FROM THE PUBLIC

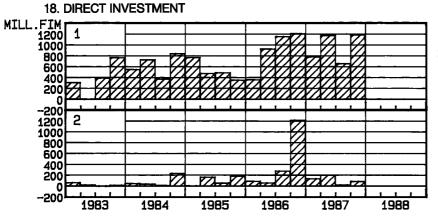


16. BANK LENDING TO THE PUBLIC

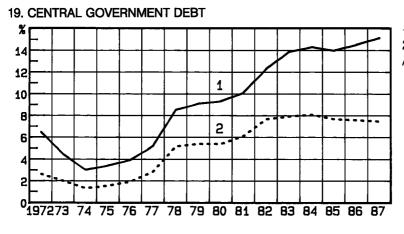


1. Markka lending 2. Total lending Change from the corresponding month of the previous year, per cent

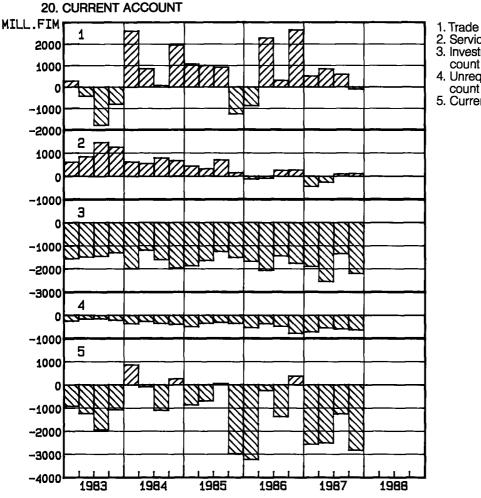




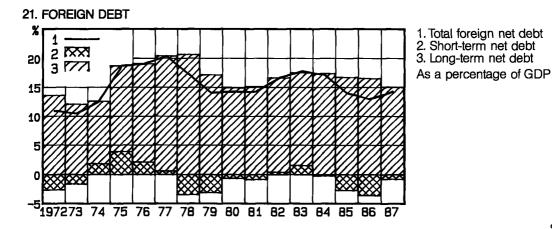
- 1. Finnish direct investment abroad, net
- 2. Foreign direct investment in Finland, net



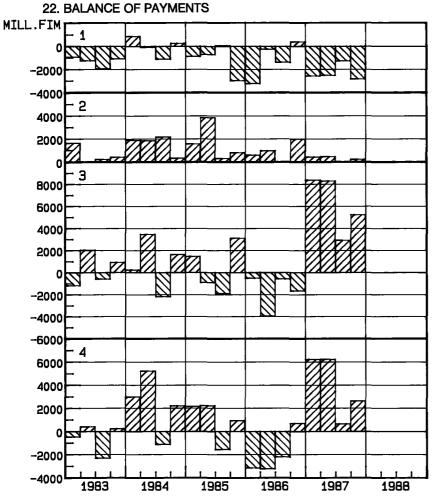
1. Total debt 2. Of which: foreign debt As a percentage of GDP



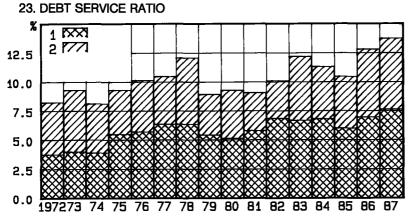
- 1. Trade account
- 2. Services account
- 3. Investment income account
- 4. Unrequited transfers account and other items, net
- 5. Current account



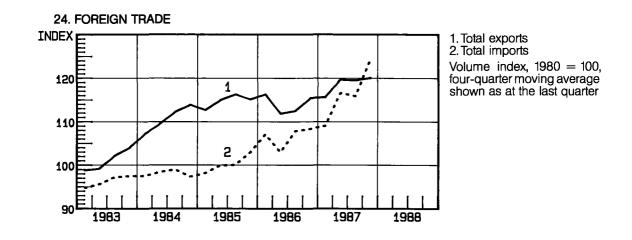
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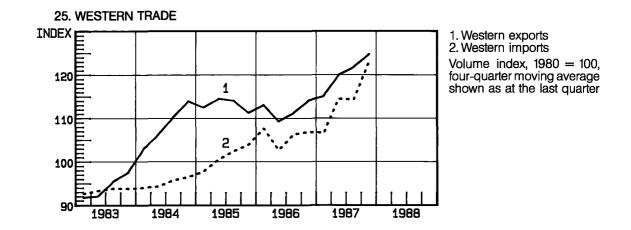


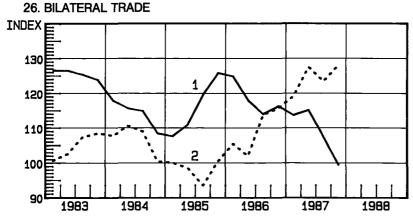
- 1. Current account
- 2. Long-term capital account 3. Short-term capital account
- 4. Overall balance = change in the foreign exchange reserves of the Bank of Finland



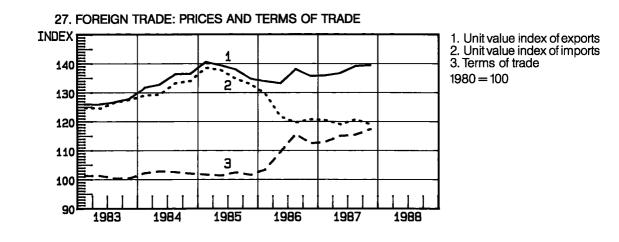
1. Interest payments 2. Redemptions As a percentage of current account earnings



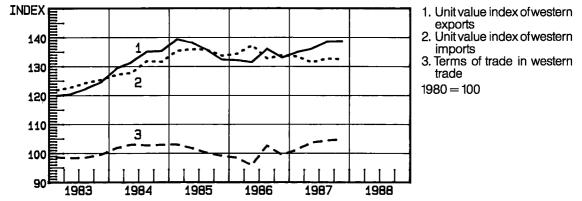




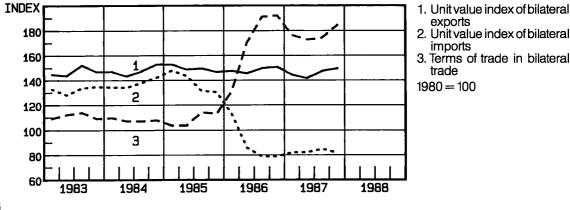
 Bilateral exports
 Bilateral imports
 Volume index, 1980 = 100, four-quarter moving average shown as at the last quarter

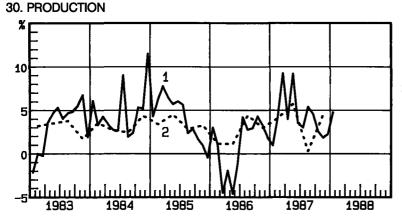


28. WESTERN TRADE: PRICES AND TERMS OF TRADE



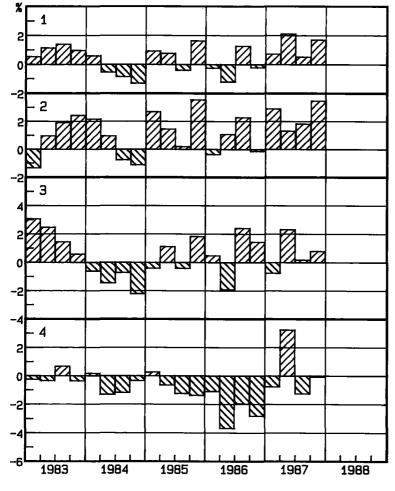
29. BILATERAL TRADE: PRICES AND TERMS OF TRADE





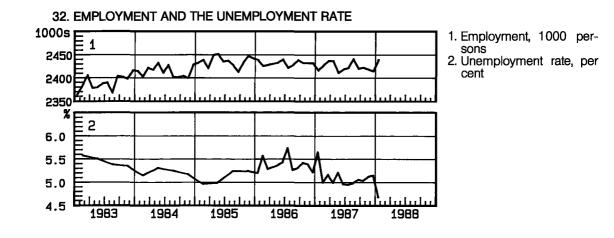
- 1. Industrial production, change in volume from the corresponding month of the previous year, per cent
- 2. GDP, change in volume from the corresponding quarter of the previous year, per cent

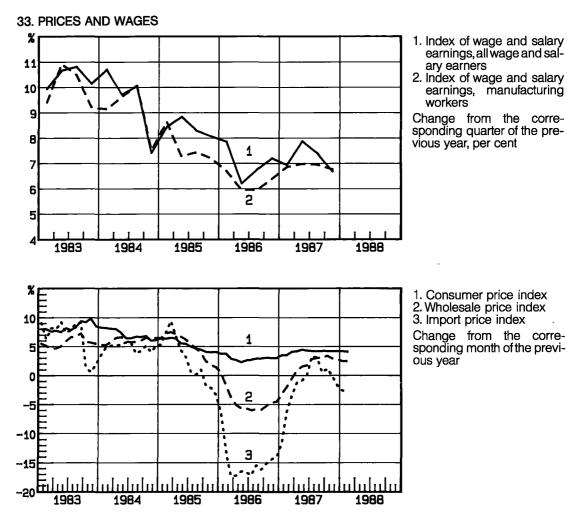
31. FIXED INVESTMENT



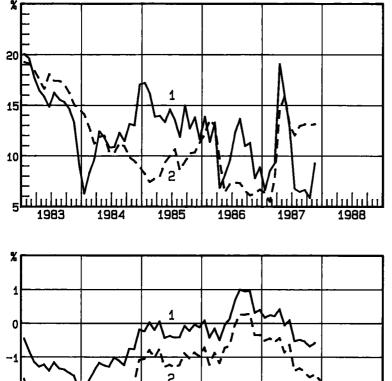
- 1. Total fixed investment
- 2. Investment in machinery and equipment
- 3. Building investment, excl. residential buildings
- 4. Residential buildings

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





34. CENTRAL GOVERNMENT FINANCES



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

Changes calculated from 12month moving totals and shown as at the last month, per cent

- 2 -2 -3 dululul ոհոհո mann hili mini -/ 1983 1984 1985 1986 1987 1988
- 1. Revenue surplus (revenue less expenditure excl.financialtransactions) (surplus = +)
- 2. Net borrowing requirement (net borrowing = –)

12-month moving total shown as at the last month and as a percentage of GDP

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